



Ballinger Open Space Restoration Validation Report Year 4

Document Prepared by City Forest Credits

2/14/2025

PROJECT OVERVIEW

<i>Project Name</i>	Ballinger Open Space Restoration
<i>Project Registry Number</i>	003
<i>Project Type</i>	Tree Planting
<i>City Forest Credits Protocol Version</i>	Version 9, February 7, 2021
<i>Project Start Date</i>	March 9, 2021
<i>Project Location</i>	Shoreline, WA
<i>Project Operator</i>	Mountains to Sound Greenway Trust

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 is the Year 4 crediting stage of the Ballinger Open Space Restoration Project. Tree planting occurred between December of 2018 and March of 2021. To date, 1,917 trees have been planted at the project site using the single tree planting design, approved for the project in 2021. The Mountain to Sound Greenway Trust has maintained and monitored the site since the trees were planted.

The Greenway Trust continues to plant additional trees on the project site outside of the initial carbon project where additional weed removal had occurred. Overall, tree sampling mortality was estimated at 17% with tree mortality noted in all four plots. Plot 4's location had to be adjusted slightly due to a fallen tree and erosion of the creek bed.

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 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 the single tree planting design and quantification methodology as approved by City Forest Credits in 2021, per Protocol criteria in Appendix A.

In 2021 field sampling for Year 1 planting verification included establishing four, 1/10th of an acre circular plots throughout the open space as directed by CFC forest scientists. This added up to 4/10 of an acre, or 14.8% of the open space. To set up the plots, tape measurers were laid out in cardinal directions at a 75' diameter. The center of each plot was marked with a t-post. Pin flags were then installed along the perimeter of the plot to form a circle. In 2024 the location of Plot 4 had to be adjusted slightly due to a fallen tree and erosion of the creek bed.

Stems were counted throughout each plot and resulted in a count of 237 trees, which when extrapolated equates to 1,599.75 trees across the entire 2.7-acre open space Overall, tree sampling mortality was estimated at 17% with tree mortality noted in all four plots. This isn't significant as at the outset of the project, we accounted for a 20% mortality deduction, which the 17% observed mortality falls within. However, additional infill planting will likely occur as the project progresses.

The Carbon Quantification Summary is as follows:

Total number of trees planted	1,917
Project area (acres), if applicable	2.7
Total number of trees per acre, if applicable	710
Credits attributed to the project (tCO ₂ e)	2,847
Credits after mortality deduction (20% or insert observed mortality, if greater)	2,164
Contribution to Registry Reversal Pool Account (5%) (tCO ₂ e)	114
Total credits to be issued to the Project Operator (tCO₂e)	2,164
Total credits requested to be issued in Year 4 (30% of above)	865

GHG Assertion: Project Operator asserts that the Project results in GHG emissions mitigation of 2,164 tons CO₂e 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 865 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)	9,701.52	\$71,222.22
Air Quality (t/yr)	-0.6626	\$478.82
Energy: Cooling – Electricity (kWh/yr)	100,421.12	\$5,141.56
Energy: Heating – Natural Gas (kBtu/yr)	298,479.20	\$3,397.79
Grand Total (\$/yr)		\$82,079.52

VERIFICATION REPORT

CFC reviewed the Verification Report February 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 February 14th in 2025.