Clark County Clean Water Commission

Joint Meeting of CWC & Vancouver Urban Forestry Commission

Commissioners: Ted Gathe, Chair & Glen DeWillie, Vice Chair **Staff:** Devan Rostorfer, Division Manager & Alice Millward, CWC Liaison

July 16, 2025





Clean Water Division



What type of Clean Water do we work on?

NOT Drinking Water

Stormwater!

NOT Waste Water

Why does Clark County have a Clean Water Division?







How does Clark County provide Clean Water services?

Capital Planning and Project Implementation

Maintenance and Operations

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PUBLIC WORKS 564-397-2446 OR OFFICIAL USE ONLY

Inspections, Operations, & Maintenance

- **\$321M** worth of infrastructure.
- 2,000+ public facilities.
- **50,000+** individual assets.
- 95% inspected annually.
- Required timeframes to repair.

Inspections, Operations, & Maintenance

- 600 bioretention facilities need maintenance and repair.
- 500 stormwater ponds need survey and maintenance.
- **500 miles of pipe** needs inspection, maintenance, and repair.
- Approx. 100 properties need more mowing.
- 1600 drywells need inspection and maintenance.
- 1800+ private facilities to inspect annually.
- Approx. 200 facilities over 30 years old.

Stormwater Planning, Partnerships and Coordination



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Monitoring and Assessment

Inspections

Pollution Prevention and Source Control

Mapping and Inventory

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Education and Outreach

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What are some Clean Water challenges?

STANDARDS COMPLIANCE POLICIES REGULATIONS RULES T

New Regulatory Requirements

Infrastructure is aging

Priority = underground pipes

STOP

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Managing & planning for growth

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Salmon Recovery needs increasing

Climate is Changing

Need for Lake Management



Clark County's Urban Tree Canopy Assessment



MAY | 2025





CANOPY

CLARK COUNTY URBAN

There are priceless benefits that trees provide across the urban landscape cooling shade, cleansing our water and air, and moderating the impacts of extreme weather. On a human level, trees give us an immediate connection to the natural world as we note the changing seasons, smile at the return of our avian friends and feel a sense of hope for the future.

- SUE MARSHALL, CLARK COUNTY COUNCILOR



PREPARED BY

PlanIT Geo, Inc., Arvada, Colorado

PREPARED FOR

Clark Conservation District and Clark County Public Works

COMPLETED

May 2025



Funding for this project was provided through an Urban & Community Forestry Grant to the Clark Conservation District, in cooperation with Clark County Public Works and the Washington Department of Natural Resources.

ASSESSMENT INTRODUCTION

STUDY AREA

The study area includes the eight (8) unincorporated urban growth areas (UGAs) of Vancouver, Camas, Battle Ground, Washougal, Ridgefield, La Center, Yacolt, and Woodland as of May 2025. These unincorporated UGAs are managed by Clark County until they are annexed by the cities. Urban growth areas are zones in Clark County's Comprehensive Plan where denser development and infrastructure can be built over the next 20 years to support population growth. Land outside the UGAs is mostly rural, with larger lots, more open space, farms, and natural areas like forests.

This assessment summarizes the status of urban tree canopy within Clark County UGAs using multiple assessment boundaries including:

- 1. Watersheds
- 2. Stream buffers
- Public and private land ownership
- 4. Municipal jurisdictions
- 5. Zoning classifications
- 6. Census Blocks
- 7. Census Block Groups



Completion of this assessment enables Clark County stakeholders to develop new programs and priorities for protecting and expanding the urban forest. The key objectives of this Urban Tree Canopy Assessment include:

- Quantify the amount and location of tree canopy and other land cover types.
- Analyze the change in canopy cover from 2011 to 2023.
- Describe the ecosystem services tree canopy provides to the community, the environment, and the local economy.
- Identify areas where tree canopy can be expanded through an assessment of possible planting areas.
- Determine priority areas for tree preservation and planting initiatives based on socioeconomic, environmental, and climate-related factors.
- Provide data to inform future planning and to establish canopy coverage goals.



9,866

ACRES OF TREE CANOPY IN UNINCORPORATED URBAN GROWTH AREAS

28%

OF THE TERRESTRIAL LAND AREA WAS COVERED WITH CANOPY IN 2023

Public parks with available open space provide opportunities to plant more trees to increase urban canopy. This also helps reduce maintenance costs by decreasing lawn areas that need regular mowing.



Table 2. Tree canopy potential (existing, possible, and unsuitable) in the urban growth areas of Clark County (percentages based on the land area excluding water bodies).

UTC Potential Class	Acres	% of Total
Existing Canopy	9,866	28%
Possible Planting Area	11,741	33%
Total Unsuitable (Impervious, Soil, Wetlands, and Vegetation)	14,103	39%

BENEFITS

THE VALUE OF THE URBAN FOREST IN THE URBAN GROWTH AREA OF CLARK COUNTY





MINNEHAHA NEIGHBORHOOD

- Planted and distributed over 850 trees across the Minnehaha neighborhood.
- We held three volunteer planting events.
- Our free yard tree giveaway provided over 200 free trees to residents in Clark County.
- Planted 30 trees in yard and right-ofway.
- Completed first Urban Tree Canopy Assessment for Clark County's Urban Growth Areas!



Figure 21. The Minnehaha neighborhood encompasses 1,092 acres in the southwestern part of the County urban growth areas.



The Minnehaha area had a 23% tree canopy cover, which was 5% below the UGA-wide average of 28%.

This area also had above-average impervious cover (40%) and experienced a loss of canopy cover over the 12-year study period.



RECOMMENDATIONS

1. Implement tree canopy requirements in the County's Municipal Stormwater Permit

By no later than December 2026, the County must use available, existing data to map tree canopy in support of stormwater management on Permittee-owned or operated properties. Additionally, by December 2028, Clark County must adopt and implement tree canopy goals and policies to enhance stormwater management. This includes establishing objectives for how the existing or future tree canopy can contribute to stormwater management and improve water quality in receiving waters. It also includes efforts to maintain the existing mature tree canopy, focusing on overburdened communities. Prioritizing efforts to increase tree canopy in these communities is a key aspect of the County's Stormwater Permit.

2. Integrate Tree Canopy Goals into Regional Planning

As parts of Clark County continue to grow and urbanize, it is essential to preserve the existing tree canopy. Since it can take decades for newly planted trees to mature and have a significant impact, protecting the current canopy is the best way to maintain stable coverage until future increases can be achieved. Use the data from this assessment to establish both short-term and long-term goals:

- Set annual tree planting targets.
- Implement regularly scheduled maintenance programs.
- Increase tree diversity by planting a wider variety of large stature tree species.
- ▶ Establish specific canopy coverage goals for designated target years.
- Review long-term land-use and development plans to include policies that protect mature trees and create canopy ordinances for new developments.
- 3. Once finalized and adopted, implement tree-related climate goals and associated policies outlined in Clark County's Comprehensive Climate Element as required by Washington State's Growth Management Act. Draft policy concepts include, but are not limited to:
 - Protect and plant more trees in both rural and urban areas, with targeted efforts to equitably increase tree canopy cover and provide ongoing maintenance support.
 - Increase, enhance, and protect county-owned plantings and greenspaces, while identifying, preserving, and rewilding critical areas such as riparian zones, wetlands, prairies, forests, and open spaces.
 - Develop and implement a comprehensive plan for trees and greenspaces that advances climate resilience, ecosystem health, and equity, in alignment with relevant laws and best practices.
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- Expand funding, policies, and community partnerships for tree planting, invasive species removal,
- restoration, and sustainable forestry, prioritizing native and climate-resilient species.
 Promote inclusive education, engagement, and volunteer opportunities around tree stewardship and

natural areas, and advocate for long-term protection of forests and critical habitats.

4. Use this Urban Tree Canopy Assessment as a platform and framework to establish future Urban Forestry Programs in Clark County

This includes the completion of an official Urban Forestry Management Plan to serve as the backbone for all urban forestry efforts. It encompasses initiatives to continue mapping and inventorying tree canopy, complete assessments and planning, and develop programs. It also involves building resources for private landowners and working lands, as well as establishing technical and financial assistance and incentives for forest landowners. Additionally, identifying essential funding for long-term maintenance and stewardship is crucial to sustaining urban tree canopy programs. Efforts to build regulatory backstops are also critical in ensuring that forest practice requirements are met, that critical riparian and shoreline areas are protected, and that impacts on tree canopy are mitigated. The protection of essential riparian and shoreline areas remains crucial, along with creating new requirements to mitigate impacts on the tree canopy. Furthermore, enhancing staff capacity, expertise, and resources to develop new tree canopy programs is vital, as are efforts to foster new partnerships with local organizations dedicated to protecting and restoring the urban tree canopy in Clark County.

5. Establish partners and resources to engage the Community and Partner with Private Landowners

Since much of Clark County's plantable space is on private land, community involvement is key to increasing canopy and mitigating canopy losses. Develop outreach programs to engage residents, schools, and local businesses in tree planting and care. Initiatives like Arbor Day celebrations, workshops, and volunteer planting events can educate the public about the benefits of trees and encourage participation. Pairing these programs with tree giveaways, private property planting initiatives, and tree maintenance events to boost canopy growth on private land. Building financial and technical assistance resources to implement urban tree canopy programs on private property is an essential first step.

6. Expand and Protect Canopy in Underserved Areas

Direct tree-planting efforts toward neighborhoods identified in the planting prioritization analysis, especially those with high levels of impervious surfaces, low canopy cover, or significant concentrations of residents dealing with socioeconomic inequity. Planting new trees and/or preserving existing mature canopies in these areas can help reduce urban heat islands, lower energy costs, and create calming spaces that alleviate stress and promote community engagement. By prioritizing these underserved areas, we can maximize the impact of forest management resources and ensure a fair distribution of green infrastructure.

7. Promote a Resilient Urban Forest

The findings of this assessment offer valuable information that can help develop a more resilient urban forest in Clark County UGAs. This data can support state, county, and local budget requests, as well as grant applications aimed at enhancing the county's resilience. Urban forests play a crucial role in addressing regional challenges by managing stormwater to reduce the burden on infrastructure during heavy rains and improving water quality by filtering pollutants before they reach rivers in Clark County. Additionally, they provide shade that helps lower urban heat island effects and protect buildings and residences by acting as a buffer against high winds. Together, these efforts contribute to creating a more sustainable and livable community for both residents and visitors.

8. Monitor Progress and Adapt Strategies

To track progress, revise strategies, and stay informed about areas of canopy growth and loss, it is essential to conduct recurring canopy assessments using updated imagery every 2-3 years using imagery data, such as the NAIP Imagery used in this assessment. The 2025 NAIP Imagery data will be available sometime in 2026. Continuous monitoring will ensure that management efforts remain effective, aligned with Clark County Conservation District's goals, and maintain a thriving, resilient urban forest.

Clark County Clean Water Commission

The Clean Water Commission is a nine-member volunteer citizen board serving in an advisory capacity to the Clark County Council on issues related to the Clean Water Division. The Clean Water Commission works with staff to review the program, implement stormwater treatment improvements, support water quality monitoring efforts, and enhance public education and outreach.



Mission, Vision and Values

Mission

The Clean Water Commission's mission is to collaborate with Clark County residents, government entities, businesses, and non-profit organizations to enhance water quality, improve flow, and protect the ecological integrity of our watersheds.

Vision

A Clark County with self-sustaining and healthy watersheds that benefit the county's human communities, wildlife, and environment.

Core Values

- -Stewardship
- -Cooperation



-Transparency



Commissioners

Name	Term Expires	Watershed
Glen DeWillie	12/31/27	Lacamas Watershed
Tracy Ceravolo	12/31/25	Gee Creek Watershed
Alejandra Cortes	12/31/26	Salmon Creek Watershed
Ruby Salakory	12/31/26	Vancouver Lake / Lake River Watershed
Vacant	12/31/27	TBD Watershed
John Chatel	12/31/27	West Slope Watershed
Alison Schweitzer	12/31/27	West Slope Watershed
Emily Hess	12/31/25	Lake Shore Watershed
Ted Gathe	12/31/25	Burnt Bridge Creek





2024 Highlights from Annual Report



Clean Water Commission ANNUAL REPORT



Clean Water Division 2024 REPORT Approved April 2, 2025



CWC Accomplishments – Active in Community

- Vancouver Lake Technical Advisory Group
- Lower Columbia Estuary Partnership
- Camas Earth Day Society
- Stream Team
- Clark Conservation District
- Backyard Habitat
- Master Gardener's Program
- Friends of Vancouver Lake
- Lacamas Watershed Council
- Vancouver Sailing Club
- Vancouver Lake Rowing Club
- Women in Environment
- Mount St. Helens Institute
- Community Roots Collaborative









2024 CWC Accomplishments

- Held 8 open hybrid public meetings.
- All members OPMA certified.
- Recruitment to better reflect county population.
- Discussed need for CWC county code update.
- Build partnerships and community involvement.
- Multiple letters of support for grants and rate study.




2024 CWC Accomplishments

- Supported Clean Water Rate Study.
- July Clean Water bus tour with Council.
- Successful Vancouver Lake Symposium with over 100 leaders.
- Annual report presented to Council.





2024 Bus Tour - Highlights















2024 Bus Tour – Specialized Equipment



2024 Bus Tour – Stream Monitoring









2024 Bus Tour – Vault Inspection & Filter Replacement









2024 Bus Tour Participants





Bus Tour highlighting Clean Water Division

https://www.youtube.com/watch?v=TDDjxUBiEAo



Protecting waterways with Clark County Clean Water





120 views Sep 13, 2024

Learn about the services Clark County Clean Water provides to protect and restore water quality by watching this recap of a bus tour given to county leaders.



- Focused on understanding complex challenges facing the lake and its diverse user groups.
- Over 100 participants.
- Local, county, state, federal, and tribal policy leaders attended.
- Presentations on history, science, stakeholders, issues.

































2025 Commission Priorities

- 1. Rate study implementation support.
- 2. Nonpoint Source Pollution Symposium on Oct. 28.
- 3. Stormwater Management Action Plan (SMAP).
- 4. Implementing climate change element in Comp Plan.
- 5. Community engagement and inclusion.
- 6. Collaboration with other boards and commissions.





Save the Date! Nonpoint Source Pollution Symposium

October 28, 2025 9:00 a.m. – 4:00 p.m. Clark County Event Center 17402 NE Delfel Rd, Ridgefield, WA 98642

Hosted by the Clark County Clean Water Commission

Thank you! Clark County Clean Water Commission

Clark County Public Service Center

1300 Franklin Street • PO Box 5000

Vancouver, WA 98666-5000

