



City of Salem

Stormwater Advisory Group – Meeting #3

Wednesday, May 8, 2024, from 12:00 a.m. to 1:30 p.m.

Meeting will be conducted both in-person and via Zoom

In-Person Location: City Hall, Public Works Department, Traffic Control Conference Room, 555 Liberty Street SE, Room #325

Zoom: <https://us02web.zoom.us/j/85219910222>

Si necesita ayuda para comprender esta información, por favor llame 503-540-2371

PARTICIPANTS

Stormwater Advisory Group (SWAG) Members

Councilor Linda Nishioka, Ken Bierly, Gene Bolante, Natalie Janny, Matt Knudsen, Bill Lawyer, Rick Massey, Tyler Roth, Josh Wells

City Staff & Consultant Support

Robert Chandler, Allen Dannen, Fred Wilson, Robin Dalke, Laurel Christian, Don Whitehurst, Anita Panko, Nitin Joshi, Keith Kuenzi, Dwayne Barnes, Heather Dimke, Kyle Cochran, Angela Wieland, Shelby Gilmartin, Brandon Teetsel, Rose Horton

AGENDA

1. Welcome
2. Meeting #2 Recap
 - a. Stormwater Design Standards - Appendix 4A (Submittal Requirements)
 - b. Site Assessment & Planning Checklist
 - c. Outstanding Questions
3. Stormwater Facilities List
4. Facility Sizing & the Simplified Method (for projects < 10,000 square feet)

ADDITIONAL MEETING DETAILS

Stormwater Advisory Group meeting documents and updates will be available at this link:

<https://www.cityofsalem.net/government/boards-commissions/other-advisory-groups/stormwater-advisory-group>

Point of Contact: Questions or comments can be directed to Heather Dimke, Management Analyst II, hdimke@cityofsalem.net or 503-588-6211 ext. 7389.

Special accommodations are available, upon request, for persons with disabilities or those needing sign language interpretation, or languages other than English. To request accommodations or services, please call 503-540-2371 (TTD/TTY 503-588-6439) at least two business days in advance.

It is the City of Salem's policy to assure that no person shall be discriminated against on the grounds of race, religion, color, sex, marital status, familial status, national origin, age, mental or physical disability, sexual orientation, gender identity, and source of income, as provided by Salem Revised Code 97. The City of Salem also fully complies with Title VI of the Civil Rights Act of 1964, Americans with Disabilities Act of 1990, and related statutes and regulations, in all programs and activities.



STORMWATER ADVISORY GROUP

MEETING NOTES – April 15, 2024

City of Salem, Public Works Traffic Control Room (#325) & Via Zoom

MEMBERS PRESENT

Linda Nishioka, City Council
Natalie Janney, Multi-Tech Engineering
Matt Knudsen, Marion County
Rick Massey, Richard Massey Construction
Tyler Roth, AKS Engineering & Forestry
Josh Wells, Westech Engineering
Bill Lawyer, City of Keizer
Gene Bolante, Studio 3 Architecture
Ken Bierly, Glenn-Gibson Watershed Council

STAFF/CONSULTANT SUPPORT PRESENT

Robert Chandler, City of Salem
Allen Dannen, City of Salem
Don Whitehurst, City of Salem
Fred Wilson, City of Salem
Anita Panko, City of Salem
Laurel Christian, City of Salem
Robin Dalke, City of Salem
Nitin Joshi, City of Salem
Dwayne Barnes, City of Salem
Heather Dimke, City of Salem
Brandon Teetsel, Otak
Rose Horton, Otak
Angela Wieland, Brown & Caldwell
Shelby Gilmartin, Brown & Caldwell

1. Welcome & Introductions

Staff, consultants, and Stormwater Advisory Group participants introduced themselves for the record.

2. Follow-Up Questions & LID Strategy Review

Angela Wieland (B&C) walked through initial responses to questions received since the March 11 meeting. These included questions on flow control exemptions for direct discharges to the Willamette River, stormwater related definitions, infiltration rates through the growth media, the water quality design storm, facility drawdown requirements, freeboard details, and stormwater facility access requirements for maintenance. Additional questions raised during this discussion included: potential flow exemptions for large streams, soil indicators of seasonal groundwater, other testing or literature (i.e., well logs) options for seasonal high groundwater determination, existing language for the sieve analysis, the NRCS standard for time of concentration, and filtration vs infiltration facilities.

To address the City's updated Stormwater Permit, a Low Impact Development (LID)/Green Infrastructure (GI) Strategy was submitted to the Oregon Department of Environmental Quality in November of 2023. Per the Permit, LID practices refer to site planning and require consideration of stormwater runoff and the use of green infrastructure early in the development process rather than at the end. To help clarify this shift, an updated definition for LID and GI will be added to the Design Standards. Infiltration exemption criteria, the Site Assessment Checklist, and updates to Appendix 4A of the Design Standards (discussed later in the meeting) have all been drafted to help facilitate this

process. In addition, updated definitions for *infiltration facilities*, *partial infiltration facilities*, and *filtration facilities* will be added to the Design Standards.

A flow chart that outlines the process for meeting both the water quality and flow control performance standards was discussed. Per the City's Permit, infiltration of stormwater runoff using GI (infiltration/partial infiltration facilities) to the maximum extent feasible is prioritized. There were questions on the flow chart related to level of professional subjectivity about integration with performance standards for infiltration, water quality, and flow control. Ultimately the performance standards will govern the requirements and Appendix 4E will help guide when exceptions or variances can occur.

Several questions and concerns regarding the infiltration testing process and the submittal requirements at Land Use were raised. Staff confirmed that most larger projects were already submitting this information and shared that the Simplified Method can be used (which does not require testing and report submittal) for projects <10,000 square feet.

3. Technical Infiltration Infeasibility Criteria

The City's Stormwater Permit prioritizes the use of infiltration-based stormwater facilities where infiltration rates and other site conditions allow. These conditions should be identified early in the development process (Land Use). To clarify the site conditions that will not support infiltration-based facilities a table of "Infiltration Infeasibility Criteria" has been developed and will be included in the Stormwater Design Standards (Design Standards). A copy of this table was provided to the Stormwater Advisory Group as a handout for discussion.

a. Steep Slopes & Landslide Hazards

A geotechnical engineer was consulted with to develop the steep slopes criteria. Similar exemption criteria are in most other jurisdictions Design Standards. In summary, this criterion clarifies that infiltration/partial infiltration facilities are not allowed on slopes > or = 25%, and that slopes > or = 15% (or identified as Category B or C landslide risk pursuant to Salem Revised Code Chapter 810) will require a Geotechnical Engineering or Engineering Geologist report.

b. Seasonal High Groundwater

A minimum 3' separation between the bottom of a stormwater facility and the seasonal high groundwater elevation will be required for infiltration or partial infiltration facilities. This is in line with other jurisdictions that presently require between 3-5' of separation. Staff has reached out to a Geotechnical Engineer to see if additional clarity on the process for identifying seasonal groundwater can be added to the Design Standards. We've learned that without a record of onsite groundwater data, boring samples (and well logs from the Oregon Water Resources Department) should be used and included in the Geotechnical Report as part of this analysis.

c. Contaminated & Fill Soils

Infiltration/partial infiltration facilities will also not be allowed on sites with contaminated soil or on fill soils deeper than 5 feet. Resources for identifying contaminated sites are included with this criterion. It was noted that the Oregon Department of Environmental Quality will often make a determination of “No further Action Required” on contaminated sites which can cause confusion. Sites within the City, however, should receive notice from the City that clarifies that the property owner is ultimately responsible for the movement of any existing contaminants off the site.

d. Domestic Wells

A 100-ft buffer will be required around domestic wells for consistency with the protections required in the Oregon Administrative Rules. There was a question on whether this refers only to active wells or if includes decommissioned wells. It was determined that formally decommissioned wells would not apply.

e. Additional Facility Restrictions (Stormwater Siting Limitations)

This is independent of infiltration/partial infiltration facilities. Stormwater facilities shall not be constructed in the floodway in accordance with Salem Revised Code Chapter 601. Additional placement limitations (easements, wetlands, right-of-way, etc.) may be considered.

4. Stormwater Design Standards – Appendix 4A (Stormwater Submittal Requirements)

Revisions to Appendix 4A are currently underway and include a Land Use submittal guide at the beginning to help clarify and streamline this process. Staff shared that a tiered process (Tiers 1-4) is currently being used to facilitate the plan review process. These tiers help define what information is required at Land Use. Tier 1 projects do not meet any of the thresholds requiring flow control or treatment. Tier 2 projects are those using the Simplified Method. Tier 3 are Single-Family Residential projects > 1,300 square feet or non-Single-Family Residential > 5,000 square feet, that are using the Engineered Method. Tier 4 projects are projects that are using the Engineered Method and will require a design exception. The City is confirming when the Preliminary Report is required.

5. Site Assessment & Planning Checklist

A second handout (Site Assessment Checklist) was provided and discussed with the group. This checklist is intended to be submitted at Land Use and includes additional site information that will be used to help clarify the rationale for stormwater facility selection and design.