

A wide-angle photograph of a beach at low tide. In the foreground, two people and a large black dog are walking away from the camera on the wet sand. The middle ground shows the vast expanse of the beach with shallow pools of water reflecting the sky. In the background, the dense Vancouver skyline is visible across the water, with mountains in the distance under a hazy sky.

Alleviating Sewer Infrastructure Issues Through On-Site Rainwater Management

City of Vancouver

CP Seminar | October 29, 2025

Photo courtesy of Destination Vancouver

Rainwater Management Update - Upcoming Changes

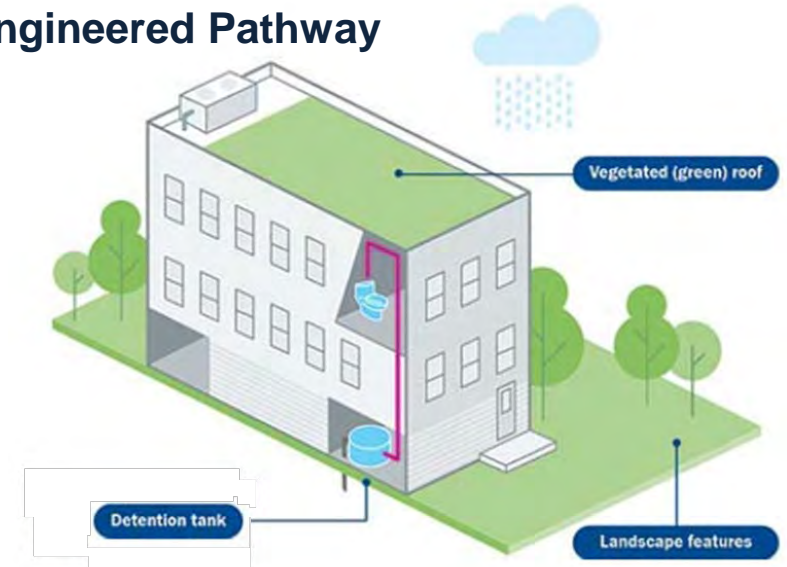
VBBL Engineered Pathway

RWM Bulletin
(2018 - 2023)

VBBL RWM
(Complex Buildings)
JAN 2024

Updated VBBL RWM
(>1000m² and/or
>1.0 FSR)
JAN 2026

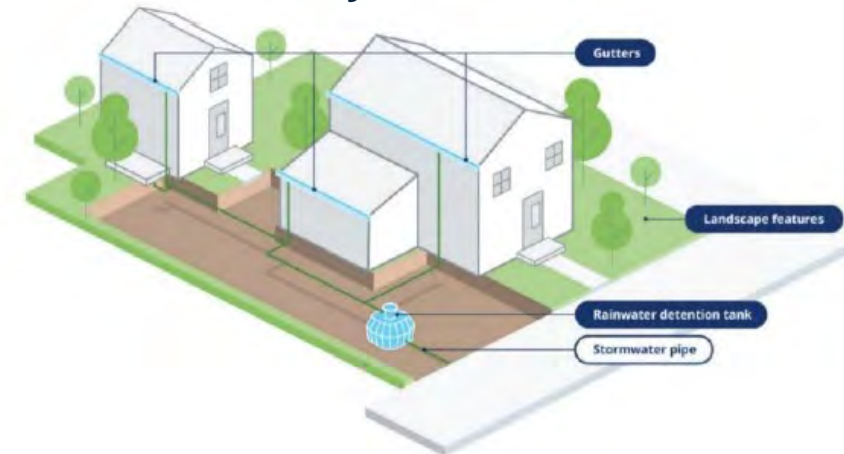
Engineered Pathway



VBBL Small Site Pathway (Unchanged)

VBBL RWM (Small Site Pathway)
JUL 2025

Small Site Pathway



Rainwater Management Update – Upcoming Changes

Objectives

- Better adapt drainage system to growth
 - Reduce sewer upgrade conditions
- Improve predictability to industry
- Simplify regulations

VBBL Update (Jan. 1, 2026 effective date)

- Responds to system challenges and industry feedback
 - Reduced release rate target & increased detention size
 - Standardized calculation method
 - Elimination of stormwater requirements in other by-laws

Engineered Pathway



Rainwater Management Update – Upcoming Changes

Applicable to Sites $>1000\text{m}^2$ and/or >1.0 Floor Space Ratio (FSR):

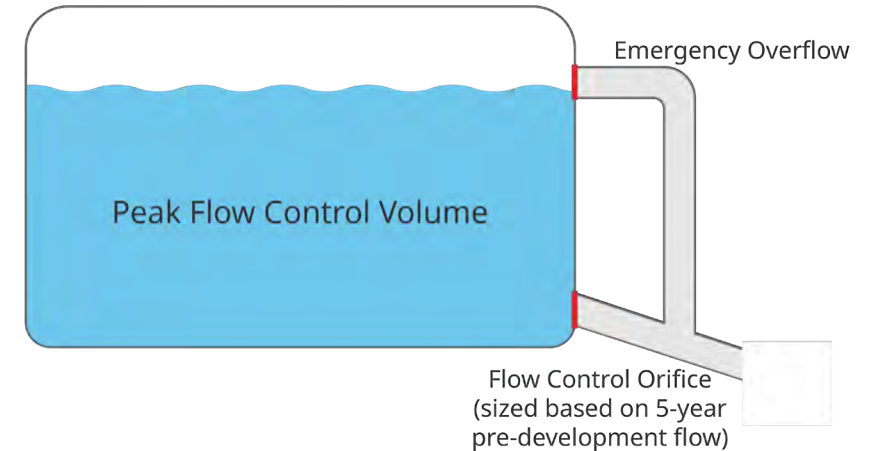
1. Peak Flow Control

- Reduces flows to sewer system:
 - 10-year 2100 release rate ≤ 25 L/s/hectare**

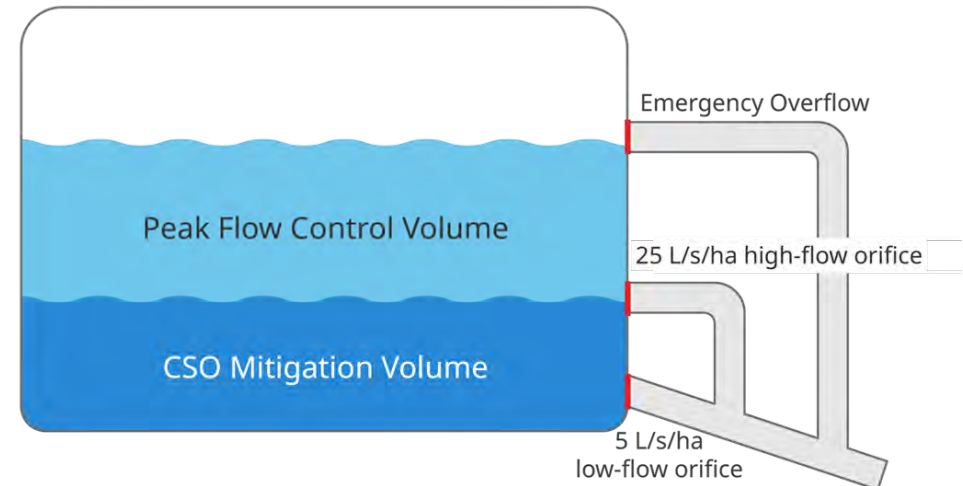
2. CSO Mitigation

- Less sewage released into water bodies:
 - The first **15mm** of rainfall to land on a site on non-landscaped areas released at **5 L/s/hectare** of site area

Current



Proposed



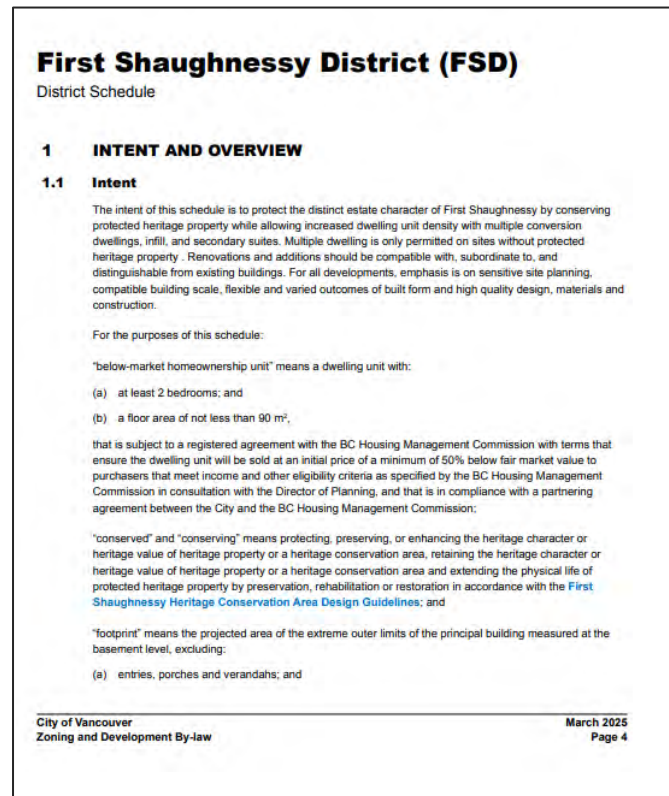
Applicable to Sites >1000m² and/or >1.0 Floor Space Ratio (FSR):

3. Standardized Calculation Method

- Improves consistency

4. Elimination of Stormwater Req's from Other By-laws

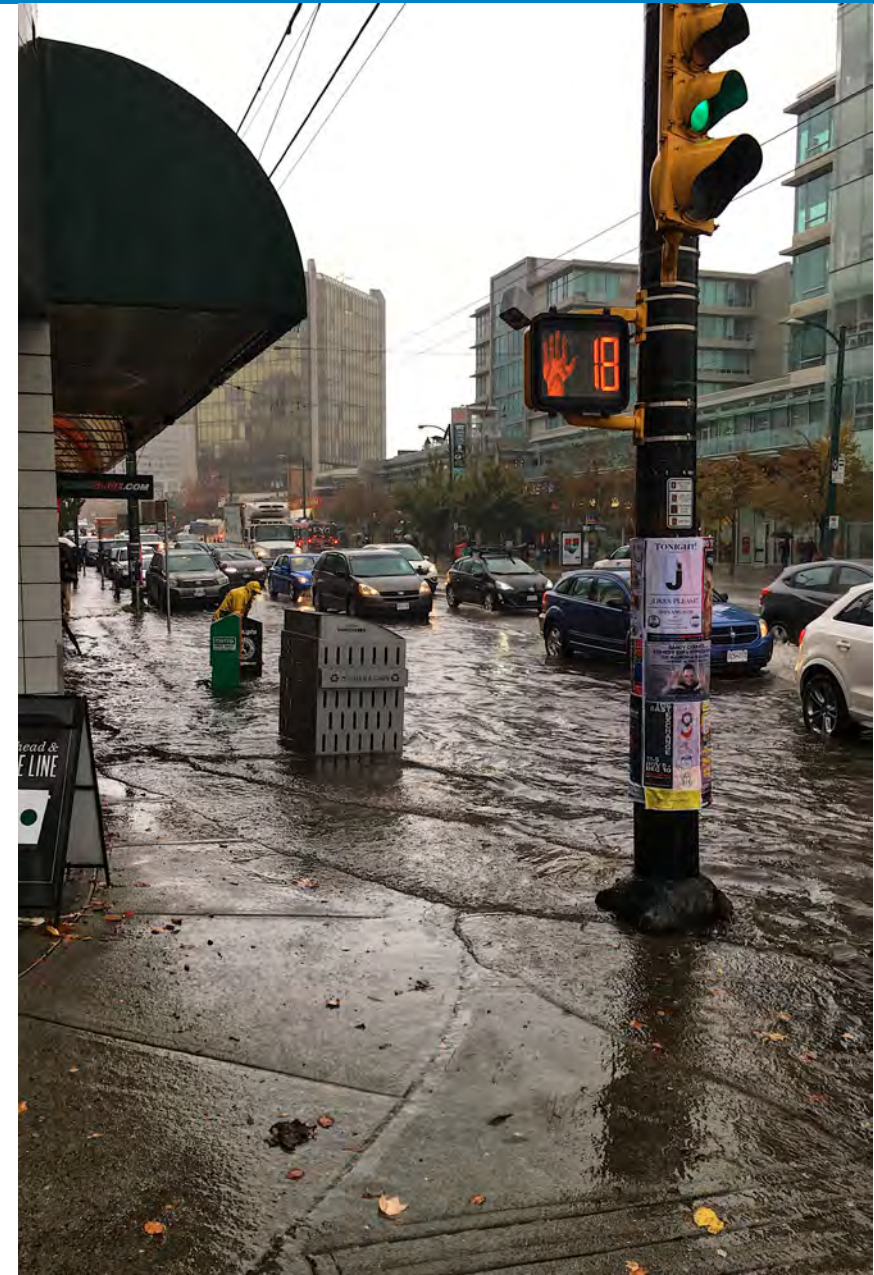
- Simplifies regulations:
 - First Shaughnessy District
 - Joyce-Collingwood CD-1's



Rainwater Management Update – Cost Impacts

Cost Implications

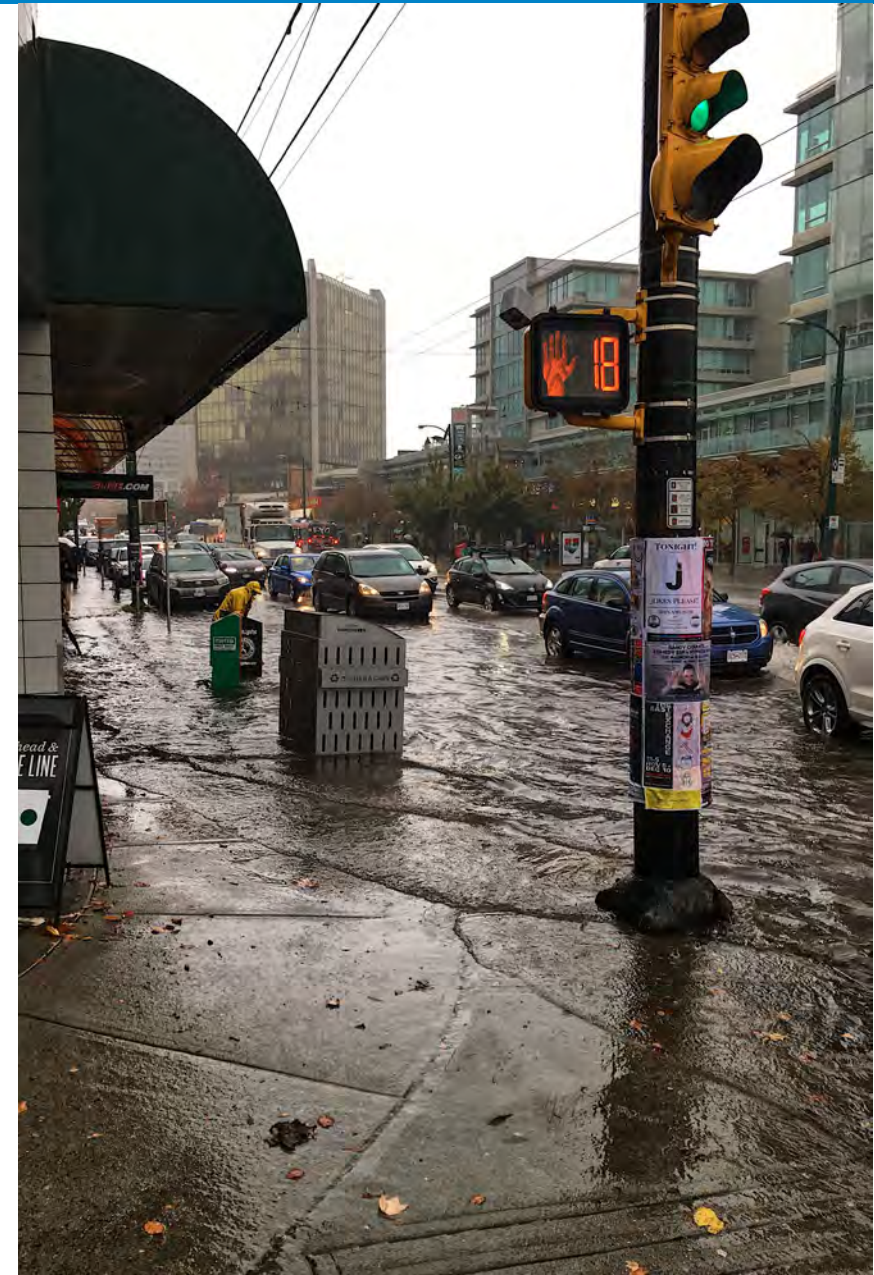
- Increased on-site storage minimizes sewer upgrades
 - ~\$20K to \$50K typical increase in storage tank capital cost, with space impact increasing from ~1 to ~2 parking stalls
 - Sewer upgrade conditions average ~**350K** per development (range: **\$0 to ~\$5.8M**, excluding major projects)
 - Greater cost consideration for most developments



Sewer Capacity Review Process Changes

Enables Updated Sewer Capacity Review Policy

- Proposed for Council adoption on October 29
- Eliminates sewer upgrades for eligible new and in-stream files ≤ 7.0 FSR (~26 storeys), and may reduce upgrades for larger sites
 - Industrial, institutional, major sites will still undergo sewer capacity review regardless of FSR
- Updated policy is already being applied to eligible sites:
 - *29 applications exempted from sewer capacity review*
 - *27 applications with sewer upgrade conditions removed*
 - *23 applications being reviewed for potential sewer upgrade elimination*



Discussion & Questions

