

Minor Project Stormwater Report Narrative and Plan Submittal

Instructions: This form (or equivalent) must be filled out completely and submitted in ePlans for any project triggering Minimum Requirements #1-5 per the Stormwater Applicability forms. Missing or incomplete information on this form may require revision and delay the issuance of your permit. Sections titled "SUPPORT DOCUMENT" indicate plans or forms that must be submitted in addition to the Minor Project Narrative.

All submittals must follow the [City of Vancouver Surface Water General Requirements](#)

Check the Box Next to All Disqualification Criteria that Apply	
☐	Project results in more than 5,000 sq ft of new plus replaced hard surface area.
☐	Project results in $\frac{3}{4}$ acres of vegetation converted to lawn/landscape
☐	Project is part of a larger common development plan
☐	Project may adversely impact a wetland, stream, water of the state, or change natural drainage course.

If you selected any of the above criteria, Civil Plans are required and this document does not apply to your project. Please contact Permitting for Civil Plan Requirements.

Applicant Information			
Business Name:		Contact Name:	
Mailing/Billing Address:		City:	State: Zip:
Phone Number:		Email:	
Applicant Signature:			

Project Site Information	
PRJ# (if available)	Case # (if available)
Project Name	
Parcel #	
Site Address / Location	
Total Lot Size (sq ft)	

Minimum Requirement #1: Preparation of Stormwater Site Plans

Project Description

Calculate New and Replaced Hard Surfaces
Category A - Lawn or Landscape Areas: _____ sq ft
Category B - Roof Area: _____ sq ft
Category C: Other Hard Surfaces Driveway: _____ sq ft Parking Lot: _____ sq ft Sidewalk: _____ sq ft Other: _____ sq ft Patio: _____ sq ft

Total Area of Ground Disturbance	_____ sq ft
Total Proposed Native Vegetation Converted to Lawn/Landscape	_____ sq ft
Infiltration Testing Performed By	_____
Tested Infiltration Rate	_____ in/hr
Calculated Coefficient of Permeability (Ksat)	_____ in/hr

SUPPORT DOCUMENT – SITE PHOTO
Please upload an aerial photo of your site with this form. Site photo must show all site property lines, neighboring streets/properties, and a north arrow for orientation.

SUPPORT DOCUMENT- STORMWATER SITE PLAN

A Stormwater Site Plan must be uploaded to ePlans for Storm approval. Please ensure the following items are included in your site plan.

Site Layout

- Property Lines
- Slopes
- Public Right of Way
- Existing and proposed vegetation
- Proximity to wetlands, lakes, and rivers (If Applicable)
- Existing buildings
- Existing driveways

Existing Drainage / Outfall Details (If Applicable)

- Pipe invert elevations
- Slopes
- Cover Locations
- Grades
- Direction of flow into stormwater facilities (i.e. catch basins or bioretention facilities)
- Culvert locations
- Additional pipe locations and info

Proposed Hard Surfaces (Must be clearly differentiated from Existing Hard Surfaces)

- Proposed Rooftop
- Proposed Driveway/Parking Area
- Proposed Sidewalk/Patio
- Proposed disturbed soil

Storm Facilities

- Existing Storm Infiltration facilities on site and/or near-by (If Applicable)
- Proposed LID BMP's for new/replaced hard surfaces
- Standard Detail Sheets for proposed LID BMP's (may be uploaded as separate Storm Detail document)

Minimum Requirement #2: Construction Stormwater Pollution Prevention Plan (SWPPP)

SUPPORT DOCUMENT - ABBREVIATED SWPPP

The Abbreviated Stormwater Pollution Prevention Plan shall be filled out and uploaded to the “Documents” folder in ePlans.

SUPPORT DOCUMENT – EROSION CONTROL PLAN

An Erosion Control Plan shall be uploaded to your Plan Set in ePlans. The Erosion Control Plan shall contain the following:

- All key components outlined in your Stormwater Site Plan layout
- All Erosion Control BMP’s selected in the Abbreviated SWPPP shall be illustrated clearly and labeled
- General Erosion Prevention and Sediment Control Notes (Detail E-1.00a and E-1.00b) can be included on the Erosion Control Plan OR uploaded to Plan Set in a separate Erosion Control Detail Sheet
- Detail sheets for BMP’s to be implemented on site shall be uploaded to Plan Set in a separate Erosion Control Detail Sheet

Minimum Requirement #3: Source Control of Pollution

Select all Source Control BMP’s that apply to your Site.
Information on how to select Source Control BMP’s is available in in Volume III, Section 1.1 of the Stormwater Management Manual for Western Washington

☐	BMP S411: BMPs for Landscaping and Lawn/Vegetation Management
☐	BMP S417: BMPs for Maintenance of Stormwater Drainage and Treatment Systems
☐	BMP S433: BMPs for Pools, Hot Tubs, and Fountains
☐	Other – Please List other Applicable BMPs _____

Minimum Requirement #4: Preservation of Natural Drainage Systems and Outfalls

Describe existing site drainage systems or outfalls If site does not have existing drainage systems or outfalls, write "N/A"

Drainage patterns and discharges from the project site shall be maintained and preserved at their natural location to the maximum extent practicable. Explain how existing site drainage systems will be preserved, and any changes to be implemented.

Minimum Requirement #5: On-Site Stormwater Management

Stormwater Management BMP's must be implemented to infiltrate, disperse, and retain stormwater runoff to prevent flooding and erosion.

Site Infiltration Testing
Site infiltration testing must be performed by a certified professional - A professional soil scientist certified by the Soil Society of America; a locally licensed on-site sewage designer; or a suitably trained person working under the supervision of a professional engineer, geologist, hydrogeologist, or engineering geologist registered in the State of Washington. Infiltration testing information shall be filled out on Page 2 to fulfill this portion of Minimum Requirement #5.

BMP Selection (List Method)
Stormwater Management BMP's must be implemented to infiltrate, disperse, and retain stormwater runoff to prevent flooding and erosion. The City allows use of the "List Method" from the Stormwater Manual for selection of BMPs without design from a licensed Engineer. Projects that cannot find a feasible option using the BMP table below will need to have a licensed Engineer design the stormwater for the site. BMP tables are provided below for each type of hard surface you may be adding or replacing on site. Start at the top of the table and determine if the first BMP can be implemented on your site based on the common infeasibility criteria. If any infeasibility criteria apply, then move down the table to the next BMP until a feasible BMP is determined. The first feasible BMP on this list must be selected and implemented. More detailed design criteria are available by clicking the hyperlink on the BMP name.

BMP Selection for Category A: Lawn and Landscape Areas		
BMP	Common Infeasibility Criteria*	BMP Feasible?
BMP T5.13 Post- Construction Soil Quality and Depth	☐ Lawn and landscape area is on till slopes greater than 33%	☐ Yes ☐ No* *Contact surfacewater@cityofvancouver.us if infeasible

BMP Selection for Category B: Roofs		
BMP	Common Infeasibility Criteria	BMP Feasible?
<u>BMP T5.30</u> Full Dispersion	☐ Dispersion area <6.5x size of area draining to it ☐ Cannot provide 100ft flow path on site ☐ Other (please describe)	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.10A</u> Downspout Full Infiltration	☐ Slopes over 25% in trench installation area ☐ Trench is within 50sq ft of the top of a 40%+ slope ☐ Measured infiltration rate < 0.3 in/hr ☐ Cannot maintain 1ft clearance between bottom elevation of infiltration system and seasonal high groundwater table ☐ Other (please describe)	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.14</u> Rain Garden <u>BMP T7.30</u> Bioretention* <i>*Bioretention facilities must be designed by a Professional Engineer</i>	☐ Measured infiltration rate < 0.3 in/hr ☐ Not enough space on site for facility ☐ Insufficient setbacks ☐ Cannot maintain 1ft clearance between bottom elevation of infiltration system and seasonal high groundwater table ☐ Other (please describe)	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.10B</u> Downspout Dispersion Systems	☐ Cannot maintain 50ft flow path between trench outlet and slopes >15% ☐ Cannot maintain 25ft flow path between trench outlet and property lines / structures ☐ Cannot maintain 5ft setback between edge of trench and property lines / structures ☐ Other (please describe)	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.10C</u> Perforated Stub-out Connections <i>*Perforated stub-out connections require a downstream stormwater system with adequate capacity for connection.</i>	☐ Slopes over 25% in trench installation area ☐ Trench is within 50sq ft of the top of a 40%+ slope ☐ Measured infiltration rate < 0.3 in/hr ☐ Cannot maintain 1ft clearance between bottom elevation of infiltration system and seasonal high groundwater table ☐ City of Vancouver has denied approval to connect to road drainage system ☐ Other (please describe)	☐ Yes ☐ No* *evaluate next BMP
No Feasible BMP	For sites where no Ecology-approved BMP is feasible, a licensed Professional Engineer with expertise in stormwater management must design a facility appropriate for your site. Any modeling of new structures must follow WA State Ecology Runoff Model Representation guidelines.	

BMP Selection for Category C: Other Hard Surfaces

BMP	Common Infeasibility Criteria	BMP Feasible?
<u>BMP T5.30</u> Full Dispersion	☐ Dispersion area <6.5x size of area draining to it ☐ Cannot provide 100ft flow path on site ☐ Other (please describe) 	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.15</u> Permeable Pavement	☐ Slopes over 15% ☐ Measured infiltration rate less than 0.3 in/hr ☐ Other (please describe) 	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.14</u> Rain Garden <u>BMP T7.30</u> Bioretention* <i>*Bioretention facilities must be designed by a Professional Engineer</i>	☐ Measured infiltration rate less than 0.3 in/hr ☐ Not enough space on site for facility ☐ Insufficient setbacks ☐ Cannot maintain 1ft clearance between bottom elevation of infiltration system and seasonal high groundwater table ☐ Other (please describe) 	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.12</u> Sheet Flow Dispersion	☐ Sheet flow in area with slopes over 20% ☐ Not enough space on site for buffer zone ☐ Other (please describe) 	☐ Yes ☐ No* *evaluate next BMP
<u>BMP T5.11</u> Concentrated Flow Dispersion	☐ Cannot provide 25ft vegetated flow path on site ☐ Discharge point on or above slopes over 20% ☐ Other (please describe) 	☐ Yes ☐ No* *evaluate next BMP
No Feasible BMP	For sites where no Ecology-approved BMP is feasible, a licensed Professional Engineer with expertise in stormwater management must design a facility appropriate for your site. Any modeling of new structures must follow WA State Ecology Runoff Model Representation guidelines.	