

SCANNED

## Geotechnical/Infiltration Facility Checklist

This checklist reflects most, but not necessarily all of the items that will be reviewed by Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Yes	No	Action
✓		Is the infiltration facility outside of any setback requirements (See Appendix V-E)?
✓		Is infiltration feasible? See Step 1 and Step 2 in Volume III, Section 2.3
✓		Are the proposed infiltration facilities outside of floodplain or high groundwater areas?
	✓	Is facility used for runoff treatment? If yes check the following: <ul style="list-style-type: none"> <li>• Initial (<math>\leq 9</math>" /hour) and design (<math>\leq 3</math>" /hour) infiltration rates</li> <li>• Cation exchange capacity must be <math>\geq 5</math> milliequivalents CEC/100 g dry soil</li> <li>• Suitable treatment soil is a minimum of 18" deep (can be amended or engineered soil)</li> <li>• Organic content sufficient to control the targeted pollutants (<math>\geq 1\%</math>)</li> </ul>
✓		Was the method used to determine the infiltration rate appropriate for the site? See Volume III, Step 4.
	✓	If the Simple Method is used does the geotechnical report justify its use?
✓		Were the tests done at the appropriate locations, i.e., in the footprint of the infiltration facility?
✓		Were the appropriate number of tests done based on the size of the facility?
✓		Were the tests done at or below the bottom of the infiltration facility?
✓		Are the field methods used contained in the report?
✓		Do the field methods conform to the approved methods in Volume III, Step 5?
✓		Does the geotechnical report show the depth to groundwater?
	✓	Is the seasonal high groundwater $> 3'$ below the bottom of the infiltration facility?
	✓	Is there a shallow impermeable layer below the infiltration facility that could influence the infiltration rate?
✓		Is an Infiltration Receptor Characterization study required (See Volume III, Step 3 and Figure 2.1)?
✓		Is a Mounding Analysis required (See Volume III, Figure 2.1 and Step 3)?
✓		Are the field logs included?
✓		Are the results of the soils tests included?
✓		Are the appropriate calculations to determine the infiltration rate(s) performed and included in the report?
✓		Are the appropriate safety factors used in the calculations?
✓		Does the geotechnical report provide the infiltration rates to be used in the hydrological models?
✓		Are appropriate plans and figures included?
✓		Are infiltration facilities properly sized? Check model simulation output to confirm.

THURSTON COUNTY  
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MAY 24 2023

BUILDING DEVELOPMENT CENTER

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_