



October 14, 2013

Errata Sheet for 2012 Stormwater Management Manual for Western Washington

1. Volume I, Section 2.4, Page 2-10, Figure 2.4.1 Flow Chart for Determining Requirement for New Development:
Within the figure, replace the text “(Figure 3.3)” in the upper right-hand box with “(Figure 2.4.2)”.
2. Volume I, Section 2.5.5, Page 2-29, Project Thresholds:
Revise Option b under Projects triggering only Minimum Requirements #1 through #5 as noted:

“b. Demonstrate compliance with the LID Performance Standard. Projects selecting this option cannot use Rain Gardens. They can choose to use Bioretention BMPs as described in Chapter 7 of Volume V to achieve the LID Performance Standard. Projects selecting this option must implement BMP T5.13 if feasible.”¹
3. Volume I, Glossary and Notations, Page G-39, Definition for Soil:
The definition for “Soil” appears within the definition of “Sloughing” due to a formatting error.
4. Volume II, Section 4.1, Page 4-2, Table 4.1.1 Source Control BMPs by SWPPP Element and Volume II, Section 4.2, Page 4-56, Table 4.2.1 Runoff Conveyance and Treatment BMPs by SWPPP Element:
Replace the existing table with the tables available at:
<http://www.ecy.wa.gov/programs/wq/stormwater/manual/2012SWMMWWconstructionBMPTables.pdf>.

¹ Ecology has not yet made this correction in the Municipal Stormwater Permits.

5. Volume II, Section 4.1, BMP C125: Topsoiling / Composting, Page 4-30:
Remove the “H” and “V” that are listed as part of the carbon to nitrogen ratios.
“The compost must also have an organic matter content of 35% to 65%, and a carbon to nitrogen ratio below ~~25H:1V~~.”

“The carbon to nitrogen ratio may be as high as ~~35H:1V~~ for plantings composed entirely of plants native to the Puget Sound Lowlands region.”
6. Volume III, Section 3.1.3, Page 3-17:
Revise the title of the section as noted:
“3.1.3 Perforated Stub-Out Connections (~~BMP T5.10C~~)”
7. Volume III, Section 3.2.1, Page 3-27:
Revise guideline number 4 as noted:
“Plant all landscape material, including grass, in good topsoil. Make native underlying soils suitable for planting by amending with 4 inches of well-aged compost tilled into the subgrade. ~~Refer to BMP T5.13 in Volume V for soil quality standards. Compost used should meet the specifications for Grade A compost quality as described in Ecology publication 94-38.~~”
8. Volume III, Section 3.3.7, *SSC-2 Ground Water Protection Area*, Page 3-84:
Revise the first two sentences as noted:
“A site is not suitable if the infiltration facility will cause a violation of Ecology’s Ground Water Quality Standards (~~Chapter 173-200 WAC~~). See ~~SSC-39 through SSC-6, and SSC-8 for measures to protect groundwater quality. for verifications testing guidance~~). ~~Consult~~ Consult local jurisdictions for applicable pollutant removal requirements...”
9. Volume III, Section 3.4.2, Page 3-106, Modeling, 3rd Paragraph, 4th line:
Replace “becombined” with “be combined.”
10. Volume III, Volume III References, Page R-1:
Add the following reference:
“Massman, Joel, A Design Manual for Sizing Infiltration Ponds, October 2003.”
11. Volume III, Appendix III-C, Page C-1:
Change the following sentence as noted:
“Because WWHM 2012 and the updated LID modeling guidance won’t be released until later this year, municipal stormwater permittees are not obligated to require its use ~~during the 2013 – 2018 this~~ permit term.”

12. Volume V, Section 3.3, Page 3-3, Performance Goal:
Delete the phrase “and on an average annual basis.”
13. Volume V, Section 3.4, Page 3-6, Performance Goal:
Delete the phrase “and on an annual average basis.”
14. Volume V, Section 3.5, Page 3-8, Performance Goal:
Delete the following sentence:
“The goal also applies on an average annual basis to the entire annual discharge volume (treated plus bypassed).”
15. Volume V, Section 5.3, BMP T5.13 Post Construction Soil Quality and Depth, Page 5-8:
Revise 3.b. as noted:

“b. Calculated amendment rates may be met through use of composted materials meeting (a.) above; or other organic materials amended to meet the carbon to nitrogen ratio requirements, and meeting the ~~contaminant pollutant~~ standards ~~of Grade A Compost listed in Table A of WAC 173-350-220(4).~~”
16. Volume V, Section 5.3, BMP T5.30 Full Dispersion, Page 5-31, 2nd Paragraph, 4th line:
Replace “sispersed” with “dispersed.”
17. Volume V, Section 5.3, BMP T5.30 Full Dispersion, Page 5-34, under “Minimum Design Requirements for Public Road Projects,” the first bulleted statement under 1) a):
Revise as noted:
“Up to 20 feet of impervious flow path needs 10 feet of dispersion area width.”
18. Volume V, Section 5.3, BMP T5.30 Full Dispersion, Page 5-36, under “3) Engineered dispersion of stormwater runoff into an area with engineered soils”, the next to last bullet on the page:
Revise as noted:
“Up to 20 feet of impervious flow path needs 10 feet of dispersion area width.”
19. Volume V, Section 7.4, BMP T7.30 Bioretention Cells, Swales, and Planter Boxes, Page 7-16, under “*Compost to Aggregate Ratio, Organic Matter Content, Cation Exchanges Capacity*”, first bullet:
Revised as noted:
“Compost to aggregate ratio: 60 - 65 percent mineral aggregate, 35 – 40 percent compost by volume.”

20. Volume V, Section 7.4, BMP T7.40, Page 7-28:

Delete all of the bullets starting with:

- “The space available for ponding water within a Bio-infiltration swale can be sized by either:”

through and including the last bullet in Chapter 7:

- “Identify pollutants, particularly in industrial and commercial area runoff, that could cause a violation of Ecology’s ground water quality Standards (Chapter 173-200 WAC). Include appropriate mitigation measures (pretreatment, source control, etc.) for those pollutants.”

21. Volume V, Section 11.7, BMP T11.10 API (Baffle type) Separator Bay, Page 11-9, under “For Stormwater Inflow from Drainage under 2 Acres:”, under Step 3, third paragraph:

Revise as noted:

“ $Q = (k)$ the ratio indicated in Figure 9.4.56.a (for on-line) of Figure 9.4.6.b (for off-line) for the site location multiplied by the 15-minute Water Quality design flow rate in ft^3/min , at minimum residence time, t_m ”

22. Volume V, Appendix C, Table C-3, Page C-3, last cell: replace “weatherometer” with “xenon arc device”.