

County of San Diego BMP Design Manual List of Updates

UPDATES FROM JANUARY 2019 TO SEPTEMBER 2020 EDITION		
DATE	CH./SEC.	REVISION
9-15-2020	Beginning of Manual	Miscellaneous updates for Cover Sheet, footer on all pages, List of Updates, Chronology Table, Approval Memo, Summary, and Glossary
9-15-2020	Ch. 1	Replaced “Grandfathering” with “Exception”
9-15-2020	Ch. 1, Sec. 1.4.1	Removed “Swimming pools and decorative ponds with adequate freeboard or an overflow structure that does not release overflow to the MS4”
9-15-2020	Ch. 2	Integrated Site Design and Source Control Fact Sheets from Appendix C
9-15-2020	Ch. 3, Sec. 3.4.3	At the end of Section 3.4.3, added the following text: “For projects that propose flood control detention in combination with pollutant control and/or hydromodification management requirements, please refer to the Conjunctive Use handout that is posted in the Development Resources web page under Calculators and Modeling Software”.
9-15-2020	Ch. 4	Integrated Site Design and Source Control Fact Sheets from Appendix C
9-15-2020	Ch. 4, Sec. 4.1.5	Added Section 4.1.5 to read: “BMPs that provide for flood control detention in addition to water quality requirements and relationship to County Hydraulic Design Manual. BMPs that are serving flood control purposes in addition to pollutant control and/or hydromodification management may not operate appropriately to satisfy the requirements of the County Hydraulic Design Manual. How to comply: Consult the County Hydraulic Design Manual in addition to the Conjunctive Use handout that is posted in the Development Resources web page under Calculators and Modeling Software.”
9-15-2020	Ch. 5	Integrated Significant Site Design BMPs from Appendix I
9-15-2020	Ch. 6	Integrated Significant Site Design BMPs from Appendix I
9-15-2020	Ch. 8	Changed name of Installation Verification Form to BMP Installation Verification form, and added content to the Verification process
9-15-2020	App. A, Standard SWQMP Form	Revised Tables 1 and 2 to be consistent with Appendix C Fact Sheets; added Project Information on cover sheet

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9-15-2020	App. A, PDP SWQMP Form	Revised Tables 1 and 2 to be consistent with Appendix C Fact Sheets; added Project Information on cover sheet
9-15-2020	App. A, PDP SWQMP Att. 6	Updated form based on SSD-BMP worksheet in Appendix I
9-15-2020	App. A, PDP SWQMP Att. 10	Changed name of Installation Verification Form to BMP Installation Verification form
9-15-2020	App. B	Integrated Significant Site Design BMPs from Appendix I
9-15-2020	App. B, Table B.1-1	Added INF-3 to Engineered Pervious Surfaces
9-15-2020	App. B, Sec. B.2.4	Added text at the end of Part 3 to read: “Retention requirements can be satisfied at the project-scale if DMA scale is not achieved”
9-15-2020	App. C	Added Site Design Source Control Fact Sheets
9-15-2020	App. E	Removed all Source Control Fact Sheets
9-15-2020	App. E, BF-1, PR-1 & INF-2	Text Added to Fact Sheets in the Filter Coarse Layer section
9-15-2020	App. E, BF-1	Removed the word "Optional" in Impermeable Liner Figure; added text for Impermeable Liner Thickness under Recommended Siting Criteria
9-15-2020	App. G	Integrated Significant Site Design BMPs from Appendix I
9-15-2020	App. I	Expanded guidance on Significant Site Design BMPs (SSD-BMPs)
9-15-2020	App. K, Page K-1	Revised paragraph to read "Design Criteria, Design Standard Drawings, and Specifications for Green Streets and Green Parking Lots can be found on the County's Watershed Protection Program website under the Green Infrastructure Resources within the Development Resources tab: https://www.sandiegocounty.gov/stormwater "
9-15-2020	App. L	Replaced “Grandfathering” with “Exception”

See next page for the List of Updates from January 2019 to July 2019

REVISIONS TO JANUARY 2019 EDITION (January 2019 to July 2019)		
DATE	CH./SEC.	REVISION
7-17-2019	Ch. 1, Sec. 1.4.1	<p>On Page 1-12, removed the exclusion for PDP Category “(f) New or redevelopment projects that result in the disturbance of one or more acres of land and are expected to generate pollutants post construction.”</p> <p>Removed text: Entire paragraph that begins with “<i>Exclusions that apply to this category only:</i>”</p> <p>Added text: <i>Note: Pollutant generating development projects are those projects that generate pollutants at levels greater than background levels. Background pollutant levels means the pollutants generated from an undeveloped site.</i></p> <p>Modified text: <i>Projects disturbing one or more acres of land are presumed to generate pollutants post construction unless the applicant presents a design that satisfies the County that pollutants in stormwater discharges will not exceed pre-construction background levels.</i></p>
5-20-2019	Glossary of Key Terms, Page xi	<p>In the <i>New Development</i> definition, “[a]nd/or replace” is added for consistency with Section 1.4.1 footnote 2, which states “In interpreting the applicability of these categories, applicants should note that any Development Project that will create and/or replace 10,000 square feet or more of impervious surface (collectively over the entire project site) is considered a new development. See the definition of New Development in the Glossary of Key Terms at the end of this Manual.” This requirement has been in effect since the February 2016 update of the BMP Design Manual, but the corresponding modification to the definition of New Development was inadvertently omitted.</p>
4-26-2019	App. K, Sec. K.2.1	<p>On Page K-9, made minor clarifications to the Green Streets Performance Standard (Section K.2.1).</p>
4-23-2019	Ch. 1, Sec. 1.3	<p>On Page 1-9, removed “●Replacing Americans with Disabilities Act (ADA) non-compliant curb ramps with ADA compliant curb ramps” from TABLE 1-2.</p>
4-18-2019	Ch. 1, Sec. 1.4.1	<p>On Page 1-11, removed footnote 3 for PDP Category (a) which read: ³For solar energy farm projects, the area of the solar panels does not count toward the total impervious area of the site.</p>

See next page for the List of Updates from February 2016 to January 2019 Edition

UPDATES FROM FEBRUARY 2016 TO JANUARY 2019 EDITION	
Section #	Chapter and Section Name followed by Type of Change
Introductory Material	
-	Cover Page
Updated title/date and contact info	
-	Summary
Updated intro and timeline table (summary of changes and reason for update)	
-	List of Acronyms
Additional acronyms added to list.	
Chapter 1: Policies and Procedural Requirements	
1.2	Purpose and Use of the Manual
In Section 1.2.1, Step 4a added to Table 1-1 to address coarse sediment supply areas. New Section 1.2.2 added to address the applicability of construction BMP requirements.	
1.3	Defining a Project
Updates to Table 1-2, Project definitions based on feedback from workgroup and Regional Board. Section 1.3.1 removed and moved to Section 1.2.2.	
1.4	Is the Project a PDP?
Clarification language on defining a PDP in Section 1.4. Clarification language on the PDP categories defined by the MS4 Permit in Section 1.4.1. Language clarified in Section 1.4.2 to indicate that the County has not categorically identified additional PDP types or expanded the definition outside of section 1.4.1. Language updated in Section 1.4.3.	
1.6	Applicability of Hydromodification Management Requirements
Clarification language on discharge elevation for exemption.	
1.9	Relationship Between this Manual and WQIPs
Clarification language on Highest Priority Water Quality Conditions.	
1.11	Project Review Procedures
Minor text updates.	
1.12	PDP Structural BMP Verification

UPDATES FROM FEBRUARY 2016 TO JANUARY 2019 EDITION	
Section #	Chapter and Section Name followed by Type of Change
Minor text updates.	
Chapter 2: Performance Standards and Concepts	
2	Performance Standards and Concepts
Text updated to outline the four separate performance standards. Table 2-1 updated.	
2.1	Source Control and Site Design Requirements for All Development Projects
Minor text updates in Sections 2.1.1.2 and 2.1.1.3. New Section 2.1.1.4 added to address DCV reduction through enhanced Site Design BMPs.	
2.2	Storm Water Pollutant Control Requirements for PDPs
References updated in Sections 2.2.1 and 2.2.2. Example removed in Section 2.2.2.3.	
2.3	Hydromodification Management Requirements for PDPs
New Section 2.3.3 added to address avoidance and bypass of critical coarse sediment.	
Chapter 3: Development Project Planning and Design	
3	Development Project Planning and Design
Figure 3-1 Updated.	
3.3	Developing Conceptual Site Layout and Storm Water Control Strategies
Table 3-1 removed. Section 3.3.2 removed. Section 3.3.3 added as a new section.	
3.4	Developing Complete Storm Water Management Design
Table 3-2 removed. Steps revised for PDPs with only Pollutant Control Requirements in Section 3.4.2. Steps revised for Projects with Pollutant Control and Hydromodification Management Requirements in Section 3.4.3.	
3.5	Project Planning and Design Requirements Specific to Local Jurisdiction
Language clarified in this section.	
3.6	Phased Projects

UPDATES FROM FEBRUARY 2016 TO JANUARY 2019 EDITION	
Section #	Chapter and Section Name followed by Type of Change
Language clarified in this section.	
3.7	BMPs in the Public Right-of-Way
Minor text updates	
Chapter 4: Source Control and Site Design Requirements for All Development Projects	
4	Source Control and Site Design Requirements for All Development Projects
Clarification language on source control and site design requirements.	
4.1	General Requirements (GR) and Guidance
Clarification language on Structural BMPs being placed in FEMA or County floodplains or floodways.	
4.2	Source Control (SC) BMP Requirements
Text updated in Sections 4.2 to no longer reference Appendix E fact sheets.	
4.3	Site Design (SD) BMP Requirements
Text updated on clarification on SD requirements.	
Chapter 5: Storm Water Pollutant Control Requirements for PDPs	
5	Storm Water Pollutant Control Requirements for PDPs
Clarification language on pollutant control requirements.	
5.1	Steps for Selecting and Designing Storm Water Pollutant Control BMPs
Text revised on steps for selection and designing storm water pollutant control BMPs.	
5.2	DMA's Excluded from DCV Calculation / Options for Meeting Structural Performance Standards
Self-retaining DMA definition and guidance updated in Section 5.2.3.	
5.3	Structural BMP Design
Section 5.3 DCV Reduction through Site Design BMPs removed and replaced with Section 5.3 Structural BMP Design, Table 5-1 added to classify categories of structural BMPs.	

UPDATES FROM FEBRUARY 2016 TO JANUARY 2019 EDITION	
Section #	Chapter and Section Name followed by Type of Change
5.4	Documenting Storm Water Pollutant Control BMP Compliance when Hydromodification Management Applies
Section 5.4 Evaluating Feasibility of Storm Water Pollutant Control BMP Options removed and replaced with 5.4 Documenting Storm Water Pollutant Control BMP Compliance when Hydromodification Management Applies.	
5.5	BMP Selection and Design
Section 5.5 BMP Selection and Design removed.	
Chapter 6: Hydromodification Management Requirements for PDPs	
6.1	Hydromodification Management Applicability and Exemptions
Text update. Added discussion of DMA types that can be excluded from HMP analysis: Self-mitigating must be evaluated on a case by base basis, de-minimis may always be excluded, Self-retaining must be included.	
6.3	Flow Control for Hydromodification Management
In Section 6.3.1, text updated to clarify and provide additional guidance. In Section 6.3.4, text updated. In Section 6.3.5.1, sizing factor methodology language updated.	
Chapter 7: Long Term Operation & Maintenance	
7	Long Term Operation & Maintenance
Clarification text on operation and maintenance requirements.	
7.1	Introduction to Long Term Operation and Maintenance
Text update on MS4 permit requirements (Section 7.1.1) and practical considerations when maintaining Source Control and Site design BMPs (Section 7.1.2).	
7.2	Maintenance Mechanisms
Text update on maintenance mechanisms. Table 7-1 updated.	
7.3	Maintenance Responsibility
Text update on maintenance responsibility and maintenance category (Sections 7.3.1, 7.3.2, 7.3.3, and 7.3.4). Table 7-2 updated. Section 7.3.5 added to address when no maintenance guarantee is required.	

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Section #	Chapter and Section Name followed by Type of Change
7.4	Long-Term Maintenance Documentation
Text update on long-term maintenance documentation.	
7.5	Inspection and Maintenance Frequency
Text update on inspection and maintenance frequency.	
7.6	Measures to Control Maintenance Costs
Section 7.6 removed.	
7.7	Maintenance Indicators and Actions for Structural BMPs
Section 7.7 removed.	
Chapter 8: Submittal Requirements through the Development Process	
8	Submittal Requirements through the Development Process
Section title updated and minor text updates.	
8.1	Initial Submittal Requirements
Section 8.1 Submittal Requirement for Standard Projects removed and replaced with Section 8.1 Initial Submittal Requirements. Table 8-1 added.	
8.2	Design Changes during Construction (SWQMP Addendum)
Section 8.2 Submittal Requirements for PDPs removed and replaced with Section 8.2 Design Changes during Construction (SWQMP Addendum).	
8.3	Verification Process
Section 8.3 Verification Process added. Includes text on the verification process for private development projects, Public Development Projects, and project and BMP inventory	

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APPENDICES	
Appendix A: Submittal Templates	
Submittal Templates can be found on the County’s Watershed Protection Program website under the Development Resources tab.	
Appendix B: Storm Water Pollutant Control Hydrologic Calculations and Sizing Methods	
Major updates included in Appendix B. Due to the volume of changes, red text not included in this section. Updates include incorporation of previous “Supplemental Guidance” on biofiltration sizing and retention standards into Appendix B.	
Appendix C: Intentionally Blank	
Content consolidated and moved to Appendix D.	
Appendix D: Geotechnical Engineer Analysis	
Major update: Appendix updated with consolidated content from previous Appendix C and reorganized into new Appendix. Appendix provides guidance and requirements for: <ul style="list-style-type: none"> • D.1: Analysis of Infiltration Restrictions • D.2: Determination of Design Infiltration Rates, and • D.3: Geotechnical Reporting Requirements. 	
Appendix E: BMP Design Fact Sheets	
Major Updates: Updated/standardized organization/formatting, added quick guide, and text updates. Maintenance fact sheets added to end of each BMP fact sheet (due to volume, not indicated in red). Additional changes include expanded sizing methods for the use of Tree Wells for pollutant control and flow control (hydromodification)	
Appendix F: Biofiltration Standards and Guidance	
Major Updates: Appendix updated with additional guidance, consistency and naming updates. New Section: Section F.3 Biofiltration Soil Media Composition, Testing, and Installation includes an updated Biofiltration Media specification including a specification for nutrient sensitive media.	

UPDATES FROM FEBRUARY 2016 TO JANUARY 2019 EDITION	
APPENDICES	
Appendix G: Guidance for Continuous Simulation and Hydromodification Management Sizing Factors	
Major Updates: Updates to guidance and consistency throughout Appendix, additional updates include updated hydromodification sizing factors and inclusion of USGS low flow threshold.	
Appendix H: Guidance for Investigating Potential Critical Coarse Sediment Yield Areas	
Minor text and consistency updates.	
Appendix I: Forms and Checklists	
Appendix intentionally blank. Forms and checklists removed. Forms available via the County website.	
Appendix J: Offsite Alternative Compliance Requirements and Guidance	
Major Update: New section added – J.5 Flow-Thru Treatment Control BMPs (for use with Alternative Compliance). Previously contained in Appendix B.6, relocated and additional guidance provided.	
Appendix K: Guidance on Green Infrastructure	
K.1	Guidance on Green Infrastructure
Revised introductory text and Table of Contents.	
K.2	Green Streets
Section K.2 now includes two sections: Section K.2.1 Green Streets Performance Standard Section K.2.2 Green Streets Guidelines	
K.3	Green Parking Lots
Section K.3.1 outlines the guidelines for green parking lots.	
Appendix L: Prior Lawful Approval Requirements and Guidance	
No updates.	
Glossary of Key Terms	
Glossary terms updated and revised.	