

Table E-7: Post-Construction Stormwater Management Plan Report Requirements


PCSMP Report Section*	Requirements
Cover	<ul style="list-style-type: none"> • Signed and sealed by a Professional Engineer
Introduction / Project Description	<ul style="list-style-type: none"> • Project summary • Stormwater management summary <ul style="list-style-type: none"> ▪ Applicable PWD Stormwater Regulations ▪ Applicable State and Federal regulatory/permit requirements • Existing site and drainage conditions summary
Project Soils	<ul style="list-style-type: none"> • Soil survey map • Hydrologic Soil Group discussion
Stormwater Management	<ul style="list-style-type: none"> • Stormwater management design methodology <ul style="list-style-type: none"> ▪ Rainfall depths and distribution, if applicable (Section 3.4) ▪ Runoff estimation method, if applicable (Section 3.4) ▪ Flow and storage routing methods, if applicable (Section 3.4) • Stormwater analysis summary and discussion • Proposed stormwater management design <ul style="list-style-type: none"> ▪ Proposed stormwater management practice (SMP) summaries, if proposed ▪ Infiltration summary ▪ Proposed disconnected impervious cover (DIC) summaries, if proposed ▪ Proposed Stormwater Management Banking or Trading discussion, if proposed (Section 3.2.4) <ul style="list-style-type: none"> ◦ Type of Stormwater Management Banking or Trading proposed ◦ Description of area(s) proposed to be banked or traded ◦ Square footage(s) of area(s) proposed to be banked or traded ◦ Justification for the proposed bank or trade, including reasons why management of the required area(s) is not feasible and why PWD may benefit from the proposal ▪ Proposed fee in lieu discussion, if proposed (Section 3.4.1) <ul style="list-style-type: none"> ◦ Square footage(s) of area(s) for proposed fee in lieu ◦ All Water Quality stormwater management strategies considered and rejected ◦ Justification for the proposed fee in lieu, including reasons why all considered stormwater management strategies are not feasible or advisable

Appendices	<ul style="list-style-type: none"> • Stormwater analysis calculations <ul style="list-style-type: none"> ▪ Static storage calculations, if applicable (Section 3.4.1) ▪ Predevelopment and post-development Tc calculations, if applicable (Section 3.4.1) ▪ Predevelopment and post-development hydrologic modeling, if applicable (Section 3.4.1) <ul style="list-style-type: none"> ◦ Model routing ◦ Input parameters ◦ Hydrograph summaries ◦ Pond summaries ◦ Hydrologic modeling input files, if applicable • Pipe capacity calculations
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The following items are required, but may be included in the PCSMP Report or submitted separately as part of the PCSMP Review Phase Submission Package.

PCSMP Report Section*	Requirements
Drainage Area Plan(s)	<ul style="list-style-type: none"> • Predevelopment and post-development drainage areas (including any off-site area) • Location of point(s) of analysis (POA) • Pertinent existing stormwater infrastructure necessary to define existing drainage conditions
Inlet Drainage Area Plan	<ul style="list-style-type: none"> • Predevelopment and post-development inlet drainage area delineations (including any roof leaders) • Calculated areas of drainage and time of concentration to each inlet • Impervious and pervious cover and runoff coefficients within each drainage area
PWD Stormwater Plan Review Online Technical Worksheet water.phila.gov/development/stormwater-plan-review/manual/chapter-3/3-4-how-to-show-compliance/#Worksheet	<ul style="list-style-type: none"> • PDF printout of completed Online Technical Worksheet. For submissions via the Project Dashboard on the PWD Stormwater Plan Review www.pwdplanreview.org/ website, a PDF is automatically generated and submitted.

<p>Geotechnical Report</p>	<ul style="list-style-type: none"> • Signed and sealed by a Professional Engineer • Detailed description of testing procedure and materials/apparatus used • Weather information at time of testing and previous 24 hours (temperature, rainfall, etc.) • Engineer’s analysis and summary of all results including soil classification (in accordance with ASTM D2488) and site evaluation • Engineer’s affirmative or negative recommendation on feasibility of infiltration, with justification • Infiltration Testing and Soil Characterization Plan (including, but not limited to, topographic/existing features of the site showing location of test pits/borings and infiltration tests) • Field boring/test pit logs for soil profiling • Infiltration Testing Log (Appendix H provides a template, which shows minimum level of information that must be provided) • Sieve analysis results per ASTM D422-63, down to No. 200 sieve, and USCS classification per ASTM D2487 of each sample • Photographs of testing
<p>Media Filter Design Documentation water.phila.gov/development/resources/#media-filter</p>	<ul style="list-style-type: none"> • Inflow and outflow event mean concentrations and percent removals for Total Suspended Solids (TSS) for sand/media filters (Designs must demonstrate a maximum effluent event mean concentration of 15 milligrams per liter for TSS at a POA downstream of the SMP) • Third-party certifications for proprietary media filters • Hydrologic and hydraulic model files, if applicable • Product specifications for proprietary media filters • Manufacturer’s guidelines for installation for proprietary media filters • Construction sequence • Maintenance requirements, including product life and replacement schedule, if applicable
<p>Low Flow Device Design Documentation water.phila.gov/development/resources/#low-flow</p>	<ul style="list-style-type: none"> • Performance/discharge curves • Third-party certifications • Hydrologic and hydraulic model files, if applicable • Product specifications • Manufacturer’s guidelines for installation • Construction sequence • Maintenance requirements, including product life and replacement schedule, if applicable

<p>SMP Maintenance Guide (Appendix G)  water.phila.gov/development/stormwater-plan-review/manual/appendices/g-smp-maintenance-guide-documents/</p>	<ul style="list-style-type: none"> • SMP Maintenance Guide Introduction <ul style="list-style-type: none"> ▪ Customized, from the third page of the SMP Maintenance Guide Information document provided in Appendix G, to be site-specific ▪ Provides under its cover an SMP Maintenance Guide Site Map and SMP Maintenance Schedule Forms • SMP Maintenance Guide Site Map <ul style="list-style-type: none"> ▪ Identifies the on-site SMPs and key SMP-related features which require maintenance, using unique, legible, labels, and provides a list of structures and SMP-related features, identifying the associated SMP(s) for each ▪ Includes a Color Legend that adheres to the Color Legend provided in the SMP Maintenance Guide document provided in Appendix G ▪ Sized 11” x 17” (Multiple sheets may be used, if necessary) ▪ Consistent in format with the SMP Maintenance Guide Sample’s Site Map, provided in Appendix G • SMP Maintenance Schedule Forms <ul style="list-style-type: none"> ▪ Customized from the templates provided in Appendix G to be site-specific for each proposed SMP ▪ Provide for inspection of each SMP and SMP-related structure, including routine maintenance, repair, and replacement ▪ Provide for a report documenting each inspection and all SMP maintenance activities performed as a result of the inspections
<p>Construction Certification Package with Customized SMP Construction Certification Forms (Appendix J)  water.phila.gov/development/stormwater-plan-review/manual/appendices/j-construction-certification-package/</p>	<ul style="list-style-type: none"> • One site-specific SMP Construction Certification Form for each SMP

<p>Proof of Applicable State and/or Federal Permits</p>	<ul style="list-style-type: none"> • Typical permits (as applicable): <ul style="list-style-type: none"> ▪ Pennsylvania Code and Charter Chapter 102 NPDES National Pollutant Discharge Elimination System Phase II Permit for Construction Activities ▪ Pennsylvania Code and Charter Chapter 105: Water Obstruction and Encroachment General and Joint Permits ▪ Other applicable permits (Sections 2.5, 2.6, and 2.7 provide resources to assist in determining which permits may apply) • Proof of issuance is required for PWD sign-off on a Building Permit; however, the applicant must only prove that they have applied for all applicable permits via copies of permit applications, application receipts, or notification letters from relevant agencies • For Pennsylvania Land Recycling Program (Act 2) sites, proof of notice to PA DEP for both an intent to remediate and notification of work to an existing Act 2 site is required
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**The PCSMP Report section divisions/organization listed are not required, but are provided by PWD to aid the applicant in organizing the required inclusions in the PCSMP Report.*