**Project Name**

**Stormwater As-Built Report**

SHA Contract No. XX0000000

Federal Aid Project No. XX0000000

SHA PRD No. XX-PR-XXXX

*Date*

***PREPARED BY:***

***As-Built Engineer, Professional Certification:***

***I certify that these documents were prepare or***

***Approved by me, and that I am a duly licensed***

***Engineer under the laws of the State of Maryland***

***License No.: Expiration Date:***

Upon structural acceptance by PRD, this as-built certification package is considered part of the approved Stormwater Management Report for this project.

Table of Contents

[SWM Facility Type / BMP # 3](#_Toc187327365)

[Appendix A: Supporting Documents 5](#_Toc187327366)

[Appendix B: Revised WQSS 5](#_Toc187327367)

[Appendix C: Pond Documentation 5](#_Toc187327368)

[SWM Facility Type / BMP # 6](#_Toc187327369)

[Appendix A: Supporting Documents 8](#_Toc187327370)

[Appendix B: Revised WQSS 8](#_Toc187327371)

[Appendix C: Pond Documentation 8](#_Toc187327372)

[Attachment: As-Built Plans 9](#_Toc187327373)

# SWM Facility Type / BMP #

1. *Statement regarding meeting management requirements.*
   1. Choose one of the following statements regarding water quality management:

* The facility has been constructed within tolerances.
* The facility was constructed out of tolerance. Computations are included showing the constructed facility meets the original design.
* The facility was constructed out of tolerance. Computations provided show a change in provided water quality treatment from the original design. An updated water quality summary sheet is provided.
  1. Choose one of the following statements for each peak flow management facility (i.e., any facility with a controlling outfall device such as a riser structure, weir, or low flow orifice):
* The facility has been constructed within tolerances.
* The facility was constructed out of tolerance. Computations are included showing the constructed facility meets the original design.
* The facility was constructed out of tolerance. Provided computations show the change in provided peak flow management and confirms that the outfall is stable in the as-built condition.

1. *Requirements Summary for Facilities that are Out of Tolerance*

[Add text discussing what was out of tolerance and any discussions around field changes if any contributed]

## Appendix A: Supporting Documents

1. Daily Reports – should be completed and stored by ABE and available to SHA upon request

Each report should include the following:

* 1. SWM ID # (BMP or SWM Facility #)
  2. Type of Facility/Practice
  3. Date of Activity
  4. Name of Inspector
  5. Description of work being performed that day
  6. Summary of any related discussions including names of participants
  7. Photos: Provide photos during the activities identified in the as-built certification tables shown on the plans. In general, photos are required prior to and during all phases of excavation and grading, during installation of each element of the facility, and when landscaping is established.
     + Title the photo with consecutive numbers (1, 2, …) and a brief description of work being completed in the photo (e.g., excavation, grading, matting, topsoiling, etc.).
     + Photos of established landscaping can be provided after the initial package submittal. They are required before final acceptance with the landscape acceptance letter (see #5).

1. Computations for Facilities that are Out of Tolerance
   * Include revised computations to support the data in the table to indicate that the as-built facility meets SWM requirements.
   * Include applicable computation pages from SWM report labeled with “Page from Approved SWM Report” for reference to input values and with as-built values shown in green (only changes need to be shown; correct values do not need to be check-marked).
2. Material approval forms (BSM, clay, embankment fill).
3. Pertinent material and installation test reports and results (compaction test for embankment and clay core).
4. Landscape acceptance letters (once available)

## Appendix B: Required Documentation for Specific Facilities

1. *For Bioretention, Submerged Gravel Wetland, Infiltration Basin, Wet or SWM Dry Small Ponds - Update MDE Pond Summary Sheet (use latest format of the table)*
2. *For Code 378 Small Ponds – Include SHA PRD’s Small Pond Code 378 Checklist*
3. *For Code 378 Small Ponds - Obtain all pertinent information from the Engineer in Charge. Refer to Specification Section 317 for detailed information.*
4. *For Embankments with an MDE Dam Safety Permit – Obtain copies of all submittals and other documentation required and submitted to MDE by the EIC as indicated on the dam safety permit.*

# SWM Facility Type / BMP #

[same information as above for each additional facility]

# Appendix A: Supporting Documents

## Appendix B: Required Documentation for Specific Facilities

# Attachment: As-Built Plans

1. *As-built plans must be signed and sealed by a Professional Land Surveyor.*
2. *The following criteria is taken from “Specifications Section 317 – Stormwater Management (SWM) Facility As-Built Certification”. Review and coordinate requirements with the current project specifications. Data that cannot be obtained from field survey shall be provided by the ABE based on inspection reports.* 
   1. *Overlay as-built survey on the contract plan (in green). Provide the following as applicable.* 
      1. *Contours.*
      2. *The entire SW facility footprint including inflow and outflow conveyances*
      3. *Drainage structures within the SWM footprint (top of structure elevation, length, width, pipe inverts, pipe sizes, pipe materials, flow direction, orifice elevations, opening sizes, weir dimensions and elevations, check dam locations and dimensions, grates, and trashrack locations)*
      4. *Footprints of riprap and aggregate, forebays, SWM maintenance access roads, fences.*
      5. *Locations, dimensions, and elevations of embankment, clay core; cut-off trench; filter diaphragm; pipe cradle*
   2. *SWM Facility Profiles (in green). Overlay of profiles and typical sections including the following as applicable:*
      1. *Check dam spacing, top and invert elevations, and dimensions;*
      2. *Subdrain invert, size, and material; and*
      3. *Aggregate and soil thicknesses, material types, clay core dimensions, and cut-off trench dimensions.*
   3. *Specifications do not require tables, other than the data and certification tables, to be greenlined. Instead, add a note (in green) referring to the appropriate profile or detail.*
3. *Complete the as-built certification data tables in green.* 
   1. *Tolerances copied below are from the 2024 standard specification section 317 – Stormwater Management (SWM) Facility As-Built Certification. Review the current project specifications for any new requirements or deviations from these standards.*
   2. *Earthwork elevations – within 3”/0.25’ of value specified*
   3. *Embankment, Clay Core, and Cut-Off Trench elevation; Freeboard; Aggregate, Sand, BSM, and Mulch Thicknesses – not less than value specified*
   4. *Drainage Structures/Pipe Inverts – within 1.25”/0.10’ of value specified*
   5. *Riprap elevations – within 6”/0.5’ of value specified*