Module 3 Completion

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Applicability

- **Individual Permits**

- **Waters Impaired for:**
  - Siltation
  - Suspended Solids
  - Turbidity
  - Water/Flow Variability
  - Flow Modifications/Alterations
  - Nutrients
- **One Module for Each Surface Water Discharge**

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Antidegradation Module 3

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES ANTIDEGRADATION ANALYSIS MODULE 3

Applicant: _____ Project Site Name: _____

Surface Water Name: _____ Surface Water Use: _____

- General Information Section
- Surface Water Name
  - Existing Use Designation if Surface has an Existing Use. (EMAP)
  - Otherwise Use the Designated Use
  - EV Wetlands to Brodhead Creek "EV to HQ-CWF/MF"

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E&S Non-Discharge Alternative

ANTIDEGRADATION – EROSION AND SEDIMENT CONTROL (E&S) PLAN

☐ A **Non-Discharge Alternative will be utilized** for the project that will either individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Other: _____
- ☐ Limiting Extent & Duration of Disturbance
- ☐ Riparian Buffer (150 ft min.)
- ☐ Riparian Forest Buffer (150 ft min.)
- ☐ Limited Disturbed Area

- **Are the BMP's listed in these checkboxes truly *eliminating* (all by themselves) the net change in stormwater during construction? They may contribute but do they truly eliminate?**

- **Need to Consider:**
  - Worst Case Land Cover changes (vegetated/impervious to bare earth)
  - Travel time considerations during construction/ concentrated flows
  - Use of Regulated Release of stormwater during construction-Is the Volume being eliminated?

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E&S Non-Discharge Alternative

Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Other: _____
- ☐ Limiting Extent & Duration of Disturbance
- ☐ Riparian Buffer (150 ft min.)
- ☐ Riparian Forest Buffer (150 ft min.)
- ☐ Limited Disturbed Area

- **Alternate Siting: Location**-move project to non-special protection location
- **Alternate Siting: Configuration**-layout of project to eliminate impacts to SP waters
- **Alternate Siting: Location of Discharge:** Discharge to Non-Special Protection Waters during construction.
- **Limit Extent/Duration of Disturbance:** Sequencing and Permanent stabilization of sections to eliminate impacts
- **Buffers:** Maintain and protect buffers to filter pollutants. Need to claim as BMP and permanent protection provided.
- **Limited Disturbed Areas:** Project size does not create an impact (Redevelopment Project, No new impervious, adequate separation/dispersal
- **Other:** Provide justification

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E&S Non-Discharge Alternative

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Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Other: _____
- ☐ Limiting Extent & Duration of Disturbance
- ☐ Riparian Buffer (150 ft min.)
- ☐ Riparian Forest Buffer (150 ft min.)
- ☐ Limited Disturbed Area

Explain how the E&S BMP(s) will individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

- If you are not checking the main box (green)-this section should be blank (you are not *eliminating*) .
- Check Green Box-Provide justification (with supporting calculations) how the 2 year storm impacts during construction are being *eliminated*.

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E&S Non-Discharge Alternative

If a **Non-Discharge Alternative will not be utilized**, explain the rationale for non-selection, including why none of the alternatives are considered environmentally sound and cost-effective.

- Justify why Each of the Checkbox BMP's were not used and why they are not environmentally sound or cost effective. (Green Box is not checked)

- Alternate Siting: Location
- Alternate Siting: Configuration
- Alternate Siting: Location of Discharge:
- Limit Extent/Duration of Disturbance:
- Buffers:
- Limited Disturbed Areas:

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E&S ABACT

☐ **Antidegradation Best Available Combination of Technologies (ABACT) BMP(s) will be utilized** for the project that will either individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

Identify the ABACT E&S BMP(s) that will be utilized:

☐ Rock Construction Entrance with Wash Rack	☐ Rock Construction Entrance with Street Sweeping
☐ Wheel Wash	☐ Pumped Water Filter Bag with Compost Sock Ring
☐ Pumped Water Filter Bag with Sump Pit	☐ Compost Filter Sock
☐ Compost Filter Berm (HQ Only)	☐ Weighted Sediment Filter Tube (HQ Only)
☐ Silt Fence with Vegetative Filter Strip	☐ Super Silt Fence with Vegetative Filter Strip
☐ Wood Chip Filter Berm (HQ Only)	☐ Vegetative Filter Strip (HQ Only)
☐ Sediment Basin with Perforated Riser (HQ Only)	☐ Sediment Basin with Skimmer
☐ Stone Inlet Protection with Compost Layer (HQ Only)	☐ Compost Filter Sock Sediment Trap
☐ Embankment Sediment Trap with Compost Layer (HQ Only)	☐ Embankment Sediment Trap with Compost Sock
☐ Sediment Trap with Perforated Riser (HQ Only)	☐ Sediment Trap with Skimmer
☐ Erosion Control Blankets within 50 ft of Surface Waters	☐ Immediate Stabilization
☐ Flocculant with PAMs	☐ Vegetative Conveyance
☐ Riparian Buffer (< 150 ft)	☐ Riparian Forest Buffer (< 150 ft)

- If you are not checking the main box (Green box from previous slide- i.e. Project is not *eliminating* net change by NDA), the 2 year storm impacts are being managed by using the BMP's attached in this list.
- Check main box (blue) in this section and ABACT BMP's being utilized on the project.

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E&S ABACT

☐ Approved Alternative: _____

Explain how the E&S BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during the earth disturbance activities.

- List any Approved Alternative BMPs (must meet ABACT) used on project
- Provide a narrative how ABACT BMP's manage the 2 year net change.
- This is not the same as the PCSM section-How are you managing stormwater during the construction phase of the project.

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PCSM Non-Discharge Alternative

ANTIDEGRADATION – POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN

☐ A **Non-Discharge Alternative will be utilized** for the project that either individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

Identify the PCSM BMPs that will be used to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Infiltration
- ☐ Other: _____
- ☐ Low Impact Development
- ☐ Riparian Buffer (150-ft. min.)
- ☐ Riparian Forest Buffer (150-ft. min.)
- ☐ Water Reuse

- **Are the BMP's listed in these checkboxes truly *eliminating* (all by themselves) the net change in stormwater after construction? They may contribute but do they truly eliminate?**

- **Need to Consider:**
  - Infiltration, Water Reuse-Are these BMP's by themselves meeting Q,V and WQ? No other BMP's being claimed? (Trees, WQ Filters, Landscape Restoration, etc.)
  - Note-an MRC does not Eliminate, it *Manages* the Net change

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PCSM Non-Discharge Alternative

Explain how the PCSM BMP(s) will individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

- If not eliminating-This section should be blank
- Otherwise provide justification for NDA BMP's selected

If a **Non-Discharge Alternative will not be utilized**, explain the rationale for non-selection, including why none of the alternatives are considered environmentally sound and cost-effective.

- Justify why Each of the Checkbox BMP's were not used and why they are not environmentally sound or cost effective.

- Alternate Siting-Location
- Alternate Siting-Configuration
- Alternate Siting-Location of Discharge:
- Infiltration
- Low Impact Development
- Buffers
- Water Reuse

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PCSM ABACT

☐ **Antidegradation Best Available Combination of Technologies (ABACT) has been selected** for the project that will either individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

Identify the ABACT PSCM BMPs that will be utilized:

- ☐ Rain Garden (with Infiltration)
- ☐ Rain Garden (without Infiltration)
- ☐ Constructed Filter
- ☐ Vegetated Swale
- ☐ Vegetated Filter Strip
- ☐ Constructed Wetland
- ☐ Wet Pond
- ☐ Dry Extended Detention Basin
- ☐ Water Quality Device
- ☐ Spray / Drip Irrigation
- ☐ Rain Barrel
- ☐ Protect / Utilize Natural Flow Pathways (on-site)
- ☐ Disconnection of Impervious / Roof Area
- ☐ Pervious Pavement with Infiltration Bed
- ☐ Infiltration Basin
- ☐ Infiltration Bed
- ☐ Infiltration Trench
- ☐ Soil Amendment
- ☐ Dry Well / Seepage Pit
- ☐ Infiltration Berm / Retentive Grading
- ☐ Protect Sensitive / Special Value Features
- ☐ Street Sweeping
- ☐ Green Roof

- If you are not checking the main box (Project is not *eliminating* net change by NDA), the 2 year storm impacts are being managed by using the BMP's attached in this list.
- Check main box in this section (blue) and ABACT BMP's being utilized on the project.

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PCSM ABACT

☐ Approved Alternative: _____

Explain how the PCSM BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

- List any Approved Alternative BMPs (must meet ABACT) used on project
- Provide a narrative how ABACT BMP's manage the 2 year net change.

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Certification

CERTIFICATION
I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (type or print legibly)

Official Title

Applicant Signature

Date Signed

- Note: Applicants Signature Required

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Questions?

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