

## Brecknock Township Pollutant Reduction Plan

### Required Component of Permit Application to DEP for Municipal Separate Storm Sewer System (MS4)

#### What is the MS4 Permit?

- The MS4 permit is an unfunded State mandate since 2003, which requires municipalities to identify all stormwater components within a defined urbanized area (based on Census data) and address six (6) minimum control measures related to stormwater (public education, public participation, illicit discharge detection/elimination, construction site runoff, post-construction stormwater management and pollution prevention/good housekeeping).

#### What is a TMDL / Pollutant Reduction Plan?

- Per current MS4 permit requirements, the Township is subject the requirements for Pollutant Reduction Plans for areas draining to waters that are impaired for sediment and/or nutrients and/or within the Chesapeake Bay Watershed.
- The Pollutant Reduction Plan focuses on the regulated MS4 areas within the Township which are based on census-determined urbanized areas and certain stormwater management components within said areas. Pollutant Reduction Plans require municipalities to calculate pollutant loads from its regulated MS4 areas based upon DEP specified loading rates for impervious/pervious areas and then implement BMPs to reduce the pollutant loads by 10% for sediment, 5% phosphorus, and 3% nitrogen. These reductions must also be achieved over the course of the 5 year permit cycle starting upon approval of the PRP Plan by PADEP
- The Township originally submitted a MS4 permit renewal application to PADEP in September 2017 along with a Pollutant Reduction Plan which was available for public comment in 2017 prior to submission to PADEP. The PRP plan available for public comment now is a revision of this original plan based upon review comments received from PADEP regarding necessary changes/revisions to mapping and sediment load calculations. This revised plan was resubmitted to DEP as a draft to ensure their comments were adequately addressed prior to advertising for public comment. PADEP has indicated that our revised PRP plan is acceptable once the public comment period is completed and any public comments received addressed to DEP's satisfaction.
- The PRP Plan identifies the following BMPs to possibly be implemented during the permit cycle to address the required pollutant load reductions. Note BMPs 1-4 are the same BMPs that were proposed under the original 2017 PRP plan and BMPs #5-7 have been added as a result of the DEP comments received. See mapping on back side for BMP locations.

<b>BMP Name</b>	<b>BMP Type</b>	<b>BMP Location</b>
BMP #1	Dry Extended Detention Basin	Country Mills Development; Along Dry Tavern Road
BMP #2	Vegetative Swale *Potentially bioswale	Along north side of Fivepointville Road between Red Run Road & East Cocalico Township border
BMP #3	Vegetative Swale *Potentially bioswale	Along the agricultural property at the NW corner of Boulder Hill / Oaklyn intersection
BMP #4	Streambank restoration (225')	Along Muddy Creek, South side of Fivepointville Rd between Red Run Rd / East Cocalico Twp border
BMP #5	Dry Extended Detention Basin	Country Mills Development; Along Country Dr
BMP #6	Vegetative Swale *Potentially bioswale	Along edge of agricultural property from O-055 near Country Drive to UNT to Muddy Creek
BMP #7	Vegetative Swale *Potentially bioswale	From Wheatland Drive development basin outfall & drainage swale through Twp property to Muddy Creek near O-029

