
EAST HANOVER TOWNSHIP POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND RE-DEVELOPMENT PLAN (MCM#5)

Background

Under the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit, the Township is required to develop, implement, and enforce a stormwater management program to meet the requirements of the permit and ensure that controls are in place to prevent or minimize water quality impacts. Under the permit, the Township must satisfy specific minimum control measures (MCMs) relating to stormwater runoff from new development and redevelopment that disturb greater than or equal to one acre that discharge to the MS4. Projects that are less than one acre but part of a larger common plan of development or sale will also be included in the written stormwater management program. The areas covered under the Township's jurisdiction for the purposes of this plan include any new development or redevelopment within the Township.

1) Development and Implementation of BMP Strategies

During Permit Year 3 of the new NPDES MS4 Permit, the Township will develop a list of suitable BMPs that are appropriate for the municipality. The list will be generated through a locally-based watershed planning process with the encouragement of participation from interested citizens within the Township. The suitable BMPs will incorporate non-structural and structural BMPs in order to minimize water quality impacts and maintain pre-development runoff conditions.

Non-structural BMPs will include preventative actions that involve management and source controls such as policies and ordinances. These policies and ordinances will provide requirements and standards to direct growth to identified areas, protect sensitive areas such as wetlands or riparian areas, maintain and/or increase open space, provide buffers along sensitive water bodies, minimize impervious surfaces, minimize disturbance of soils and vegetation, and educational programs for developers and the public about project designs that minimize water quality impacts.

Structural BMPs will include but not be limited to storage practices such as wet ponds and extended-detention outlet structures, filtration practices such as grassed swales and sand filters, and infiltration practices such as infiltration basins and trenches.

2) Stormwater Management Ordinance

Herbert, Rowland & Grubic (HRG) staff will review the current stormwater management ordinance, which was enacted October 20, 2020 in order to comply with the NPDES MS4 Permit. The Ordinance that is currently in place is being utilized as the design guidelines for new development and redevelopment within the Township.

3) Long Term Operation and Maintenance of BMPs

The pre-construction review process of BMPs proposed in a design for a new development or redevelopment project is completed by HRG in order to ensure that the design meets the provisions set forth in the current stormwater management ordinance and complies with the requirements of other agencies. Township staff, HRG and/or the County Conservation District conduct a pre-construction meeting that highlights stormwater runoff and erosion control practices prior to all new construction projects commencing within the Township. Township staff, HRG and/or the County Conservation District document the inspection of the installation of all stormwater related construction per the design of BMPs during the construction process and generate reports which are focused towards stormwater management and the MS4 program. Operation and maintenance of BMPs are controlled by a standard note on the approved plans per the Township stormwater management ordinance. The installation and construction of BMPs is inspected during the construction process as well as at the completion of construction and failure to construct BMPs as designed may result in the withholdings of monies set by an improvement guarantee that is executed between the Township and the developer prior to the commencement of construction. Additionally, as part of the SWM Ordinance, developers are to provide a SWM As-Built Plan prior to the release of financial security. The Township will implement and maintain a catalogue of permitted and constructed BMPs and will record follow-up actions taken regarding maintenance of the BMPs.

4) Annual Review of New Stormwater Management Technologies

New technologies related to stormwater management are constantly improving BMP practices. Due to the constant change and improvement of BMPs, HRG and the Township will review new technologies on an annual basis and update the list of suitable BMPs generated during the locally-based watershed planning process. The updated list of new technologies will be compiled with the encouragement of citizen participation.