

**AGENDA
WORCESTER TOWNSHIP BOARD OF SUPERVISORS
WORK SESSION MEETING
WORCESTER TOWNSHIP COMMUNITY HALL
FAIRVIEW VILLAGE - WORCESTER, PA
WEDNESDAY, JULY 19, 2017 - 6:30 PM**

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ATTENDANCE

INFORMATIONAL ITEMS

PUBLIC COMMENT

- A five-minute limit per person.

PRESENTATIONS

- a) MS4 presentation
 - The Township Engineer will make a presentation regarding the proposed permit application to the Pennsylvania Department of Environmental Protection MS4 Program.

OTHER BUSINESS

ADJOURNMENT

UPCOMING MEETINGS

| | | |
|--|----------------------|---------|
| Zoning Hearing Board | Tuesday, July 25 | 6:30 PM |
| Planning Commission | Thursday, July 27 | 7:30 PM |
| Board of Supervisors, Work Session | Wednesday, August 16 | 6:30 PM |
| Board of Supervisors, Business Meeting | Wednesday, August 16 | 7:30 PM |

All other meetings will be held at the Worcester Township Community Hall, 1031 Valley Forge Road.



Worcester Township

2018 MS4 Permit Application

2018 MS4 Permit

- Due September 16, 2017
- Permit starts March, 2018 for a 5 year permit period
- Requires Updated Total Maximum Daily Load (TMDL) Plan and Pollution Reduction Plans (PRPs) to be submitted with the application
- The TMDL and PRP Plans require discussion at a public meeting and a 30 day public comment period
- The Plans will be advertised for the public comment period starting in the beginning of August

Watersheds in Worcester Township

| Watershed | Area (Sq. Mi.) |
|------------------------------|----------------|
| Skippack Creek | |
| • Total Watershed Area | 55.7 |
| • Area within Township | 12.31 |
| • Area of MS4 Responsibility | 2.88 |
| Stony Creek | |
| • Total Watershed Area | 21.2 |
| • Area within Township | 3.854 |
| • Area of MS4 Responsibility | 0.62 |
| Wissahickon Creek | |
| • Total Watershed Area | 64.0 |
| • Area within Township | 0.049 |
| • Area of MS4 Responsibility | 0.035 |

TMDL Requirements

- Wissahickon Creek
 - Sediment TMDL Requirement for 14% reduction
 - Discussed with PADEP and they agreed that Worcester Township does not need to address this requirement for the Wissahickon Creek Watershed during this 5 year permit period since the area within the Township is so small
- Skippack Creek
 - Sediment TMDL Requirement for 18% reduction
 - Worcester is participating the Skippack Creek Watershed Group to prepare a joint TMDL Plan
 - This plan will not be ready for the 9/16/17 submission date. It will be submitted later as a revision to the Township's plan.
 - As part of the participation, the Township can use the Skippack Creek Model that has been approved by PADEP which reduces the Township's sediment load by 30%.

Pollution Reduction Plans

- Skippack Creek
 - PRP required for Nutrients
 - Requires a 5% reduction in Total Phosphorus in the 5 year permit term
 - PADEP is allow a “Presumptive Approach” where a 10% reduction of sediment is accepted to achieve a 5% reduction in total phosphorus
- Stony Creek
 - PRP required for Sediment
 - Requires a 10% reduction in Sediment in the 5 year permit term

Skippack Creek Sediment Reductions

| Skippack Creek | Lbs/Year |
|---|-----------|
| Existing Sediment Load from TMDL Study | 4,563,192 |
| Reduction from Use of Model | 30% |
| Revised Existing Sediment Load | 3,194,234 |
| Percent of Watershed Area that is Township's MS4 Planning Area (Removes of Non-Urban Areas and Areas outside MS4 Area) | 23% |
| Reduced Sediment Load | 748,184 |
| Reduction from Projects Constructed before TMDL | 17,981 |
| Reduced Sediment Load | 730,203 |
| TMDL Sediment Reduction Requirement | 18% |
| TMDL Sediment Reduction Required | 131,437 |
| 2018 Permit Reduction Requirement | 10% |
| 2018 Permit Reduction Required | 73,020 |

Skippack Creek BMPs

- Projects completed since the TMDL Study was approved by PADEP (2005):

| BMP | Sediment Reduction |
|---|--------------------|
| Basin Conversion along Saddlewood Court | 4,395 lbs/year |
| Basin Conversion of Conrad – Morris Basin (joint project with Upper Gwynedd Twp.) | 7,200 lbs/year |
| Total Completed to Date | 11,595 lbs/year |
| Total Required for TMDL | 131,437 lbs/year |
| Remaining TMDL Requirement | 119,842 lbs/year |
| 2018 Permit Requirement | 73,020 lbs/year |

Projects for 2018 Permit

| Possible Projects | Sediment Reductions |
|--|---|
| Basin Conversion along Clyston Road | 15,012 lbs/year |
| Amount of Reduction Remaining | 58,009 lbs/year |
| 1,300 LF of Streambank Stabilization | 58,344 lbs/year |
| Alternative Projects | |
| Conversion of Private Basins (Would need to convert 8 private basins) | 64,000 lbs/year (8,000 lbs/year/basin average) |

Summary of Skippack Creek Pollutant Reductions

| | Sediment (lbs/year) |
|--|---------------------|
| Required Sediment Reduction for TMDL | 131,437 |
| Reduction from Projects completed since 2005 | 11,595 |
| Amount Remaining to be reduced for TMDL | 119,842 |
| Required Sediment Reduction for 2018 Permit Period | 73,020 |
| Possible BMPs for 2018 Permit | 73,356 |
| Amount Remaining for TMDL after 2018 Permit | 46,486 |

- The 2018 Permit Requirement can be met with these projects.
- Worcester Township is participating in the Skippack Creek Watershed Group.
- A revised TMDL Plan is expected to be submitted by the Watershed Group once it is completed and agreements are reached among the group.

Stony Creek Sediment Reductions

| Stony Creek | Sediment (lbs/year) |
|--|---------------------|
| Current Sediment Load | 157,922 |
| Reduction Requirement | 10% |
| Reduction Required | 15,792 |
| Proposed BMPs | |
| • Basin Conversion – Stony Creek Road | 12,441 |
| • Basin Conversion – Deep Meadow Lane | 12,068 |
| Total Sediment Reduction Proposed | 24,509 |

Next Steps

- If the Township accepts the Plan, it will be advertised for a 30 day public comment period starting the first week of August
- At the completion of the comment period, any comments will be addressed
- The Plan along with the MS4 Permit Application must be submitted to the PADEP by September 16, 2017