

**Radnor Township**  
**Stormwater Management Advisory Committee (SWMAC)**  
**Agenda**  
**7:00pm, Thursday June 11, 2015**



1. Call to Order
2. Review / approve meeting minutes May 14, 2015 SWMAC Meeting.  
*(10 minutes)*
3. Public comment.  
*(10 minutes)*
4. SFR Rebate – subcommittee discussion, review and tracking of applications.  
*(30 minutes)*
5. Stormwater Ordinance Discussion  
*(30 minutes)*
6. CH2MHILL – Updates on Ithan Creek Watershed Assessment, Billing, SWM tasks  
*(30 minutes)*
7. Update on SWM Projects – Update on Malin Rd Culvert Analysis, Mill Rd Storm Sewer Replacement, Storm Sewer Cleaning/Televising/Location, Township wide Culvert Analysis, Wayne Train Station North Lot SWM Project, Willows, Radnor Township rain gardens (June 20, 2015), Grant Applications.  
*(10 minutes)*
8. New Business
9. Set the date and time for the next meeting and adjourn.

**ATTENDEES:** Radnor Township: Steve Norcini  
SWMAC: Heather Gill, Paige Maz, Joseph Schanne, Regina Majercak  
CH2M: Daniel Wible  
Gannett Fleming: Roger Phillips and Matt Scholz

**PREPARED BY:** CH2M

**MEETING DATE:** May 14, 2015

**SUBJECT:** May 2015 meeting

**YouTube link:** <https://www.youtube.com/watch?v=IYpupGP9eI8>

#### **Review of Previous Meeting Minutes**

- April 9, 2015 SWMAC meeting minutes - approved

#### **Public Comment**

- No public comment

#### **Steve Norcini Update**

- Growing Greener Grants have recently been announced; DEP will be accepted grant applications until July 10, 2015; the SWMAC is encouraged to think about potential grant ideas for the Township; for additional information, see the following link:  
[http://www.portal.state.pa.us/portal/server.pt/community/growing\\_greener/13958](http://www.portal.state.pa.us/portal/server.pt/community/growing_greener/13958)
- 228 Willow Ave – abandoned property adjacent to a stream channel; Township is considering acquiring this property to construct a stormwater facility; given the size of the parcel, a stormwater facility there would likely not have a significant impact, but the cost/benefit should be explored; significant flooding has been observed at this location
- Update on culverts work:
  - Marlbridge Road – design completed, but permitting still under way; Gannett Fleming to provide construction cost estimate; construction anticipated this year (late summer?)
  - Mill Road – alternatives to pipe replacement, such as lining, being considered (to minimize disturbance); drainage area study underway to determine adequacy of reduced pipe diameter; Gannett Fleming to provide construction cost estimate
  - Malin Road – Gannett Fleming will be submitting its evaluation soon
  - Locating, televising, cleaning of storm sewer system going out to bid shortly
  - Township Public Works crews rebuilt 7 inlets recently

#### **Stormwater Program Administrator Update by CH2M**

- Ithan Creek Watershed Assessment – Township has authorized the scope/fee for this watershed assessment and CH2M has started Task 1 (flood model); CH2M will share results of Task 1 at the June SWMAC meeting
- GIS – CH2M met with Bob Hale (Township IT) and has started converting MapInfo files, developing a GIS needs assessment and implementation plan, and reviewing existing impervious/parcel data
- Billing – CH2M is scheduled to meet with Bill White (Township Finance) on 5/18 to discuss billing workflow; CH2M has started to review stormwater expenditures to date

#### **N. Side Wayne Train Station Stormwater Management Project Update**

- Gannett Fleming provided an update on the stormwater design for the Wayne Train Station (north side):

- Under existing conditions, uncontrolled runoff from this area discharges to an existing drainage channel
- Gannett Fleming has almost completed design of two subsurface infiltration systems to help manage the currently uncontrolled runoff; these trenches will be placed below existing SEPTA parking areas and will entail associated improvements such as new pavement and curbing
- Pretreatment for the trenches will be provided by water quality units
- The trenches were sized based on the available funding (\$100k provided by SEPTA); SWMAC may be interested in exploring options for increasing the size of the trenches and the associated costs in order to make them even more effective
- Infiltration testing will be completed soon, followed by final design, and bidding

### **Stormwater Management Ordinance Update**

- Gannett Fleming provided a summary of their draft updates to the Township Stormwater Management Ordinance (SWMO) in the form of a Powerpoint presentation (to be posted on the Township website); highlights of the updates include the following:
  - Page 5: an example is provided to clarify the requirements associated with cumulative additions of impervious cover on a property; no change is proposed to the requirements
  - Page 33: water quality depth increased from 1 to 1.5 inches (the infiltration depth requirement on page 30 is still 1 inch and needs to be updated)
  - Page 38: sites that reduce impervious cover by at least 25% are exempt from peak rate reductions; however, peak rates cannot be increased from existing conditions
  - Page 39: for development and redevelopment sites, 25% of existing impervious cover, when present, shall be considered meadow in good condition; Regina recommended that there be a minimum disturbance threshold (“trigger”) associated with this requirement
  - Page 41: for underground pipe systems, voids within the stone bedding cannot currently be counted for storage; Gannett Fleming provided a sizing example (with and without stone voids counted) and recommended changing this requirement to allow for the stone voids to be counted for storage
  - Gannett Fleming also highlighted several other items that should be updated:
    - Inconsistent definitions of “impervious surface” between the SWMO, SLDO, and Zoning codes
    - Consideration of credit for installing permeable pavement
    - Consideration of credit for installing wood decks
    - Consideration of pools as impervious surface
    - Consistency with request to infiltration test requirements (double-ring, perc, etc)
    - Considerations for incentivizing reduction of impervious cover
- Public comment: Maya Van Rossum asked for clarity on the process/schedule for public comments on the SWMO update
- Response to public comment: the draft SWMO updates will be posted on the Township website soon after the meeting; there will be a formal comment period in the fall of 2015 (with one or more public meetings) to discuss the draft SWMO updates; comments received (even those submitted now) will be considered and attached to the updated SWMO document; public comments on the draft SWMO should be emailed to the Township with the following subject line “stormwater management comments”

### **Miscellaneous**

- Heather announced another rain garden planting event on Saturday, May 30 from 9AM to 12 PM; the Township has dug out the area for 2 rain gardens, is making the necessary amendments to the soil, and will be ordering the plants; volunteers are needed to help install the plants

**Next SWMAC meeting: 6/11/15**

**Action Items**

- **SWMAC** to compile comments on SWMO update by next SWMAC meeting (6/11)

**Outstanding Previous Action Items**

- **Leah McVeigh/Radnor** to post all previous SWMAC meeting minutes, agendas, and information packets will be posted to the new Radnor Township website
- **Steve** to approach BOC about RFQ for on-call stormwater design services; upon approval, CH2M will develop RFQ for such services



## Homeowner Stormwater Facility Rebate Application Form

Stormwater Utility users may be eligible for a rebate for the purchase and construction/installation of qualifying stormwater facilities. This form and all requested information shall be submitted to address given below initiating a rebate disbursement.

**Electronic submittals are encouraged.**

### REBATE TYPE

- Rebate applied for: (check all that apply)
- Rain barrel(s) (up to 5) (\$50 each)
  - Rain garden (up to \$250)
  - Cistern (\$100)
  - Downspout diversion\* (up to \$50)

\* Diversion of roof downspout runoff from driveways, sidewalks or streets to lawn or garden areas.

### PROPERTY INFORMATION

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Property Location (if different): \_\_\_\_\_

Phone: \_\_\_\_\_ Cell: \_\_\_\_\_

Email: \_\_\_\_\_

### APPLICATION REQUIREMENTS

Please supply the requested information for the applicable rebates. Additional documentation may be requested by the Radnor Township Stormwater Advisory Committee:

- Rain Barrel**
- # of rain barrels \_\_\_\_\_
  - Size in gallons (min. 45 gal) \_\_\_\_\_
  - Proof of payment for barrel(s)
  - Photo showing connection(s) to downspout(s)
  - Approximate roof area draining to downspout \_\_\_\_\_ ft<sup>2</sup>

- Cistern**
- Cistern size in gallons (min. 250 gal) \_\_\_\_\_
  - Proof of payment for installation or materials
  - Photo showing installation
  - Impervious area draining to cistern (roof, patio, driveway) \_\_\_\_\_
  - Approximate impervious area draining to cistern \_\_\_\_\_ ft<sup>2</sup>

- Rain Garden**
- Sketch of location
  - Dimensions (min. 100 sq ft, 6" min. depression) Area \_\_\_\_\_ Depth \_\_\_\_\_
  - Photo of rain garden installed at property
  - Proof of payment for installation or materials
  - Impervious area draining to rain garden (roof, patio, driveway) \_\_\_\_\_
  - Approximate impervious area draining to rain garden \_\_\_\_\_ ft<sup>2</sup>

**Downspout Diversion**

- Pre- and post-installation photos documenting diversion
- Proof of payment for materials used
- Approximate roof area draining to downspout \_\_\_\_\_ ft<sup>2</sup>
- Briefly describe the receiving area for downspout flow

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Signature of Property Owner \_\_\_\_\_ Date \_\_\_\_\_

*I hereby state that the above information is true to the best of my knowledge and acknowledge that any attempt to purposely supply incorrect information may result in denial of the rebate application, elimination of any rebate granted, and restitution of previous rebates. I also understand that, with my permission, Radnor Township or its agents reserve the right to inspect rebated BMP installations to determine effectiveness and/or need for maintenance.*

*All installation suggestions for storm-water devices are provided based upon nationally recognized best-practices. Radnor assumes no liability for installation or in the unlikely case that the device has a negative consequence*

Submit application to:

Radnor Township Stormwater Administrator  
301 Iven Avenue  
Wayne, PA 19087-5297

Or e-mail with supporting documents attached to [stormwater@radnor.org](mailto:stormwater@radnor.org)

If you have questions about this program, please contact Dan Wible at [stormwater@radnor.org](mailto:stormwater@radnor.org) or call

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