

ATTENDEES: SWMAC: Heather Gill, Paige Maz, Charles Boschen, Regina Majercak, Joe Schanne
CH2M: Daniel Wible

PREPARED BY: CH2M

MEETING DATE: July 9, 2015

SUBJECT: July 2015 meeting

YouTube link: https://www.youtube.com/watch?v=j5e_IN7Hee0

Review of Previous Meeting Minutes

- June 11, 2015 SWMAC meeting minutes – approved with no comments

Public Comment

- No public comment

Presentation by Mark Gutshall of Land Studies

- Mr. Gutshall presented on regional stormwater / flood reduction / pollution removal facilities (“functional natural systems”)
- Land Studies has capabilities to design, build, and maintain such regional facilities; their staff includes engineers, landscape architects, construction personnel, and other types of “restoration practitioners”
- According to Mr. Gutshall, regional scale stormwater strategies may provide a more cost-effective and better performing alternative to smaller scale, distributed stormwater practices such as rain gardens; permitting for such facilities requires involvement by Army Corps and DEP and could take 8-12 months
- Mr. Gutshall presented a case study from Lititz, PA, which entailed a regional facility within the floodplain
- Mr. Gutshall mentioned two potential opportunities in Radnor Township for regional scale facilities: Eastern University (existing wetlands/pond) and floodplain area at the southern end of the Township (possibly in partnership with Haverford Township)
- Upon request, Land Studies can provide detailed cost estimates for operation and maintenance activities associated with specific stormwater facilities

Stormwater Program Administrator Update by CH2M

- Daniel gave an update on the Ithan Creek Watershed Assessment, including flood analysis results; the flood model was run for the following events: 1-year, 1-hour; 2-year, 1-hour; and 5-, 25-, and 100-year, 24-hour events over the entire Township (Ithan Creek, Meadowbrook Run, Darby Creek, and Gulph Creek) and the results demonstrated good correlation with known flooding locations
- Daniel once again noted that the rapid assessment flood model is based on surface topography and that detailed simulation of drainage conveyance constraints are beyond its capacity; additional tools and data gathering (beyond the Ithan Creek Watershed Assessment scope) will be required to further analyze such constraints
- Flooding risk areas were identified based on model simulation results in conjunction with known flooding areas; modeled flood depth grids were analyzed within streets and parcels (outside of the FEMA 100-year flood zone), considering flooding extent and volume; identified flood areas were

then compared to the known flooding areas from the Darby Cobbs Creek Watershed Act 167 plan and flooding locations provided by the Township

- Based on the model results, CH2M identified the following flood areas as being of highest significance to the Township (in no particular order):
 - Banbury Ave & Francis Ave (behind the Wawa)
 - Lancaster Ave between Bellevue Ave and Wayne Ave
 - Radnor Township Fire Station
 - Midland Ave between Louella Ave and Aberdeen Ave
 - St. Davids Road and Pembroke Ave
 - Brookside Ave between Orchard Way and Iven Ave
 - Near Radnor Township Municipal Building
 - Lancaster Ave near Kenilworth Road and railroad
 - Springmill Road between Lancaster Ave and railroad
 - Wyldhaven Road near Brandymede Road
- Regina indicated that Runnymede Ave floods as predicted by the model; CH2M to consider adding this to the priority list
- Modeling of the benefits associated with all of the various conceptual solutions to be developed is beyond the scope of this effort; however, CH2M will explore modeling the benefits associated with the selected 3 project concepts (to be developed)

Capital Budget/Planning

- Daniel presented an updated summary of the Township Stormwater Budget; 3 new purchase orders were added, totaling \$34,589 (\$10,000 for preliminary evaluation of embankment settling issues at Mill Road; \$12,029 for Barleycone Lane storm sewer repair; and \$12,560 for High View Road storm sewer outfall repair)
- It was generally agreed that the 2016 stormwater budget should take the following into account:
 - Budget for storm sewer televising/cleaning should be increased and should include mapping
 - Budget item for storm infrastructure repairs/upgrades should be included
 - Include cost for SFR rebate program
 - Include planning-level costs for forthcoming Ithan Creek flood reduction concepts and other comprehensive stormwater solutions (including O&M costs)
 - Emergencies should be excluded
 - Budgeted balance should be zero (or close to it)
- There was discussion around how to approach PennDOT regarding potential partnership opportunities; it was generally agreed that PennDOT should not be approached until specific flooding problems are identified on state streets and conceptual solutions (and associated costs) have been developed

Miscellaneous

- SWMAC again expressed interest in adding to the scope of the Wayne Septa station stormwater project; SWMAC would like to have Gannett Fleming provide an update on this design at the August SWMAC meeting

Next SWMAC meeting: 8/13/15

Action Items

- **SWMAC** (Heather) to contact Stephen Burgo at Tredyffrin Township to discuss Tredyffrin's experiences with working with PennDOT on stormwater projects
- **CH2M** to provide Powerpoint presentation to SWMAC
- **CH2M** to update Stormwater Budget as discussed

- **CH2M** to provide summary of existing Township stormwater infrastructure information (what information do we have? what is lacking?)