

ATTENDEES: SWMAC: Paige Maz, Charles Boschen, Joe Schanne, Tim Sass,
Heather Gill
CH2M: Daniel Wible

PREPARED BY: CH2M
MEETING DATE: July 14, 2016
SUBJECT: July 2016 meeting

YouTube link:

https://www.youtube.com/watch?v=dHIAVtZRxc&index=15&list=PLWSgOZEOk8cWuk_of0zq2i9J-kzoKsYZx

Review of Previous Meeting Minutes

- JUNE 9, 2016 SWMAC meeting minutes – approved

Public Comment

- Laura with the Delaware Valley Regional Planning Commission (DVRPC) introduced herself and discussed a project DVRPC is doing with the William Penn Foundation
 - DVRPC is looking at what various municipalities are doing to achieve their water quality goals, including additional program needs and potential incentives
 - Radnor Township is one of the case studies that DVRPC is considering and therefore Laura was in attendance to get a feel for what is happening in Radnor with respect to stormwater

Township Wide Assessment (TWA) Update

- Daniel provided an update on the progress of the TWA
 - CH2M is still working on Task 2 (Data Gap Analysis and Collection) of the TWA
 - In June, Daniel had reported that the focus of this task had turned to field survey rather than exhaustive research of record drawings
 - The field survey efforts in N. Wayne took longer and cost more than originally anticipated; N. Wayne is a challenging area to survey, as its infrastructure is old and not very well documented
 - Based on the lessons learned from N. Wayne, CH2M will scale back the amount of field survey to be used in the other study areas; CH2M will to spend more time and effort on researching the available record drawings and then fill in the remaining gaps with much more limited and focused field surveying
 - Daniel noted that according to the GIS, there are a total of 841 subdivisions (from the early 1950’s through to 2009); of those, 420 intersect our study areas; of those, 188 are located near a stormwater feature (e.g. pipe, inlet, outfall); of those, we are trying to determine the most important ones for our analysis
 - Daniel noted that CH2M still plans to complete the TWA in either October or November of this year, though the N. Wayne study area will be completed sooner
 - Discussion of flooding questionnaire for property owners
 - Joe noted that at a previous meeting, the SWMAC discussed creating a questionnaire that the public could use to document flooding problems; Paul Burgmayer (note present at this SWMAC meeting) developed a draft questionnaire
 - Joe stated that his only comment to Paul was that the flood depth options should be reduced

- Two different versions of the questionnaire were briefly discussed (a preliminary version and an updated version); only two changes should be made: 1) “I don’t know” should be added as an option for the question about the cause of the flooding and 2) the “Location of Flooding” question from a previous version of the questionnaire should be added back in
- General SWMAC consensus that the questionnaire should be made available to all Radnor residents on the Township website and that those living within the TWA study areas could be “targeted” or “encouraged” to complete it
- Heather noted that the questionnaire could be discussed in the next Township newsletter; the deadline for the September newsletter is 8/5
- Maya van Rossum (Delaware Riverkeeper and Township resident) suggested that, in addition to street flooding, the questionnaire should also include inputs for house/property flooding
- Daniel noted that from a modeling perspective, the more information about existing flooding conditions in the Township, the better; Daniel noted and Joe agreed that asking for information about private residence/property flooding may lead to unrealistic expectations about flood mitigation
- Completed questionnaires would be sent to CH2M, which would compile the results and highlight new information to the SWMAC
- Discussion of draft prioritization criteria for potential flood mitigation projects
 - Daniel briefly discussed the various criteria and noted that CH2M tried to include criteria that was measurable and to keep the number of criteria at a manageable size
 - The list of criteria included: flood volume reduction, runoff volume reduction, ownership, water quality, cost sharing and partnership opportunities, operations and maintenance needs, public amenity/community asset/public safety, constructability, and cost/benefit
 - Daniel noted that a potential scoring scheme of 0-10 was considered; some of the scoring will have to be further defined / refined
 - The various criteria will also have to be weighted, as not all criteria may be considered equally important
 - Daniel discussed a prioritization example in which a theoretical vegetated infiltration basin at an unspecified Township-owned park was compared to a theoretical pipe upsizing project in an unspecified State route; in this example, the vegetated infiltration basin scored much higher than the pipe upsizing project
 - Joe stated that cost / benefit should not be included in the prioritization criteria list; Daniel agreed and stated that cost / benefit is a separate consideration that should be looked at after projects have been prioritized
 - Discussion of having a public workshop to further discuss project prioritization
 - Paige noted that it could take a while to settle on the weightings of the various criteria
 - The SWMAC will further review the prioritization criteria and think about potential weightings prior to the August SWMAC meeting
 - Daniel noted that preliminary results of the N. Wayne flooding analysis would be presented at the August SWMAC meeting and that a presentation to the Board of Commissioners (BOC) could happen in either late August or early September
 - The plan is to model how the existing basin currently functions, as well as how it was originally intended to function
 - Maya suggested that the model of the proposed basin should happen at a later date, after written clarity from the BOC is sought with respect to the best course of action; according to Maya, the feedback from the BOC to date has been “piecemeal”
 - Maya offered some thoughts on the draft prioritization criteria:
 - Community amenity / assets should be separated from public safety

- Erosion should be considered
- Constructability should be further defined
- Type of flooding should be further considered (basement vs. first floor vs. street, etc.); need a better approach to capture the “quality” of flooding that occurs
- The number of residents that benefit from a project should be considered
- MS4 permit obligations, especially the pollutant reduction plans
- Negative impacts should be considered
- Cost / benefit should be separated out from the prioritization criteria and further defined
- Public input is important

Discussion of Repair Project Prioritization / Stormwater Budget

- Steve estimated the construction cost of the Highview Drive project to be \$300,000; Daniel noted that this cost should be considered conservative (i.e. high)
 - Daniel also noted that at their June meeting, the BOC determined that CH2M was selected to be the Township’s Stormwater Program Administrator, not to perform design services and therefore a design proposal from another consultant will be needed (Note: Steve later requested a proposal for this work from Gannett Fleming)
 - General SWMAC consensus that the construction cost estimate of \$300k for the Highview Drive project seems excessively high
 - General discussion over the best course of action for soliciting a proposal from other engineering firms (Note: Steve later requested a proposal for this work from Gannett Fleming)
- Discussion of annual allocation for repair projects; the SWMAC’s goal is to limit annual spending on repairs to 20%, though Steve’s prioritization results in much higher percentages being spent over the next several years
- Daniel noted that in the July tracking sheet, there are placeholders for future unspecified flood mitigation projects
- Joe noted that, based on Steve’s prioritization of repairs, the first culvert to be repaired (Eagle Road) will not occur until 2018
- SWMAC asked about the deadline for the stormwater budget update; consensus is that serious budget discussions should start in September and be completed by the end of the year
- General SWMAC consensus is that, like the budget developed at the end of 2015, percentages should be assigned to the different budget categories (e.g. repairs)

Old/New Business

- N. Wayne Train Station (SEPTA): Gannett Fleming continues to work with SEPTA and Amtrak to address their comments regarding the Right-Of-Entry Application
- Mill Dam: the Township Solicitor (John Rice) is reviewing the legal question about the responsible party for the repairs
- Banbury Way flood mitigation project: Daniel noted that T&M’s selection as the design engineer for this project was formally approved by the BOC; a kickoff meeting will be held between T&M and the Township (including CH2M) on 7/15
 - Maya asked if the final approved proposal from T&M could be made public
- Radnor Middle School connector pipe: based on Gannett Fleming’s report, the BOC decided to terminate this project; the assumed cost of \$250k was removed from the budget
 - Gannett Fleming’s investigation yielded multiple potential utility conflicts (including a fiber optic duct bank) that would likely be very expensive to overcome; in addition, there is still unknown utility information (size, depth, etc.) that would require additional costs to investigate further

- Daniel stated that the outlet control structure for the Radnor Middle School stormwater system will still be modified (i.e. a weir will be installed per the original design); Daniel and Steve are exploring different options; it may make sense to wait until the TWA is completed before modifying the outlet structure
- Tim asked if the potential utility conflicts could be avoided by implementing horizontal drilling; this option is likely cost-prohibitive
- Daniel discussed a potential alternative pipe alignment that would use one of the existing pipes; this alternative would entail connecting a larger pipe to a smaller pipe, but could potentially reduce the level of conflict with other utilities
- Another option could be to install one or more new inlets on the east side of S. Wayne Ave; these inlets would connect to one of the pipes feeding the Radnor Middle School stormwater system, reducing localized flooding in the process
- The TWA modeling effort could further explore one or more of the above alternatives to the original connector pipe; general SWMAC consensus is that this project should be revisited at a future date
- Tim and Joe would have liked to have seen actual costs associated with overcoming the utility challenges for this project
- MS4 update: CH2M is developing a proposal to address the new MS4 requirements for the Township; the goal is to have the proposal completed by the August SWMAC meeting
- Mill Road Culvert: bids came in cheaper than the estimate; the low bid was \$79k and construction will begin soon; Joe would like to know the construction schedule as soon as it is updated, as it is imperative that construction be completed prior to the start of school
- Cleaning, Televising, and Mapping: bids came in and there was a large range (low bid was \$109k, while the approved budget for this was \$100k)
 - The mapping component of this effort was bid as a separate item
 - For the low bid, the mapping component entails an additional 20% of the cost
 - Daniel sees no value in adding mapping to the cleaning and televising effort for N. Wayne, as that was part of the field survey effort in the TWA
 - Heather asked if new storm sewer observations from the field could be captured by the company doing the cleaning and televising (Note: Steve said that this was possible under the scope of work)
 - SWMAC voted to approve the low bid cost of \$109k and to not include the mapping component
- Stormwater Management Ordinance update: Gannett Fleming reported (via Daniel) that the EAC verbally expressed “overwhelmingly opposition” to the proposed ordinance update
 - Maya reminded the SWMAC that the Delaware Riverkeeper Network had submitted detailed comments on the ordinance update back in August of 2015
 - Maya stated that the ordinance update falls short in that it does not adequately address runoff volume or water quality (both important for the new MS4 requirements)
- Daniel also provided updates on various other stormwater projects in the Township (see attached July 2016 Stormwater Tracking Table for detailed information)

Next SWMAC meeting: 8/11/16 (Radnorshire room) – later changed to 8/18/16

Action Items

- **SWMAC** to further review the draft prioritization criteria and consider potential weightings prior to the August SWMAC meeting
- **CH2M** to update Steve on SWMAC’s approval of cleaning and televising effort
- **CH2M** to send slides on the Radnor Middle School alternative pipe alignment to the SWMAC

