

Ellicott City Flood Work Group May 8, 2017

Present	Not Present
Debbie Slack Katz (Chair)	Jim Caldwell (Staff)
Phil Nichols (Staff)	Bob Frances (Staff)
Maria Bernadzikowski (Staff)	Ken McNaughton (Member)
Mark Deluca (Staff)	
Gary Smith (Staff)	
Ryan Miller (Staff)	
Lori Lilly (Member)	
Dave Myers (Member)	
Ron Peters (Member)	
Bruno Reich (Member)	
Frank Durantaye (Member)	

- Call to order 6 pm---Debbie
- Approval of Minutes from April – Dave motion to approve, Ron second, all approve
- Update on Flood Recovery
 - McCormick Taylor – Chris Brooks and Andy McClane
 - Study expanded to whole watershed, not just Hudson using TR55 methods – utilized as much existing SWM info as available
 - Mitigation concepts reflect public input – large online stormwater management (SWM) ponds; underground management; analysis of existing SWM pond expansion; Capacity improvements – parallel bypass culverts, supplemental cross culverts, tunnel bore bypasses
 - 9 “injection” points throughout the watershed – 64 stormwater ponds currently exist
 - Used USGS data to calibrate model for 7/30 event in each of three subwatersheds
 - Peaks were exceeding 100 year event, up to 3500 cf under La Palapa
 - Peak flow for whole watershed was 7847 cf at 8:47 PM (100 year is 7847, Lee was 4957)
 - 5’ pixel resolution in model; calibration – gage at Colored School – S&S study results and YouTube videos
 - Looked at flow, velocity, sheer stress; 5, 10, 20-year storms
 - Mitigation analysis – two benchmarks 1) manage back to “woods in good condition;” 2) managing as much of 100-yr back to 10-yr flow as possible
 - Ponds - Kept 3 ponds from 29/40 interchange; above Papillon Dr; one in Tiber in undeveloped area; 4 areas on New Cut in undeveloped areas – 300 acre feet of total storage for all proposed ponds

- Underground management – BGE Right of Way – 3 locations – 31.6 ac ft – 3 miles of 10’ diameter pipe; Roger Carter Center – 4600’ of 10’ diameter pipe – 8.4 ac ft
 - Underground vaults – 90 ac-ft – under Lot F, under West End, under yards between 8777 and 8729 Main
 - Total volume of proposed storage between 18 sites is 428 acre-feet
 - Tiber proposed project could bring flow down 69%
 - New Cut proposed projects – of four projects, NC-3 was the most effective
 - Hudson proposed projects – a little over 200 acre feet cumulative – underground pipes + BGE was most effective
 - Expand existing ponds that collect about ¼ acre of the area – have 86 ac ft of dry storage, 15.5 acre-ft of wet storage; assume on average 25% expansion of dry storage – 64 projects if 22 ac ft – 5% of 18 sites above
 - Conveyance improvements – 8800 Frederick Rd (6’), Under Papillon (2-5’), 8777 Frederick (box), 8680 Frederick; Bypass supplemental culverts
 - Bypass tunnel bores – upstream of Lot E – 1500’ long and 13’ diameter; upstream of New Cut Rd – 790’ long and 15’ diameter
 - These projects do not address floods from the Patapsco.
 - Send feedback to Phil.
- County Update----tabled
 - Anniversary flood education table- Lori motion to have an educational table/display, Frank second, all approve – we need to coordinate with ECP
 - Melissa Metz - Case Study review - Additional 2.6 myn damage in property was found through volunteer interviews plus additional damage to vehicles increasing damages reported in the Case Study by 8 myn. Interviews also revealed inconsistencies in the way the Case Study reported water movement during the flood. This analysis took 18-20 person hours of work that could have been accomplished by the consultants. A letter will be written to the County Executive documenting and detailing the discrepancies. Phil noted that the original interviews were conducted soon after the flood when damages had not yet been fully documented.

Adjourn 8:00pm