CE 321 Bushkill Creek Watershed Tour – Fall 2016

Upper Watershed

1. Bushkill Elementary School
   - Watershed boundaries/definition – Blue Mountain
   - Forested headwaters/recharge/protect water quality
   - Ecosystems/ecosystem services

2. Jacobsburg State Park & EEC
   - Recreational users/watershed advocacy groups/environmental education
   - Greenways/ Old-growth forest
   - Stormwater Best Management Practices/Green Infrastructure

3. Cement quarry/ Sinkholes (Stockertown)
   - “Point source” industrial discharges (water and air)
   - Groundwater/stream connection and sinkholes

Lower Watershed

4. Village of Mill Race development
   - Residential development/”nonpoint source” pollution
   - Detention basins/Runoff/Stormwater management
   - Riparian buffers – wildlife habitat

5. Mill dams (Lions Park/Penn Pump Park)
   - Industrial past of Bushkill Creek
   - How do dams affect the stream?
   - Appropriate use of parks/ how much is too much?

6. Huntsman Iron Oxide Pigment Plant
   - History of industrial discharges to stream (CKWilliams, Pfiser, etc)
   - National Pollution Discharge Elimination System (NPDES) regulations
   - Also Simon Silk Mill brownfield redevelopment project

7. Plant Ops Leaking Underground Storage Tank (LUST)
   - Groundwater contamination/cleanup
   - Groundwater/stream connection

8. Confluence with Delaware River
   - Connection to a larger watershed community shared with NYC, Philadelphia
   - Former dam and ice-packing house
   - Easton water and wastewater treatment plants

Note: going up Sullivan Trail we will pass Metzgar Garden (“LaFarm”), which is the cornerstone of Lafayette’s Sustainable Food Loop. Also note agricultural land use and suburban sprawl – examples of “nonpoint source” pollution.