Tuesday, 30 April 2019, 8:30am

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Water/Stormwater SWATeam Meeting Minutes

Present: John Berens, Rabin Bhattarai, Eliana Brown, Arthur Schmidt, Colleen Williams

I. Recommendation: app to solve stormwater infrastructure problems based on reports from students/others on campus

A. Decision to keep several options open for the Working Group to consider

B. Option 1: Collaborate with Champaign and Urbana Public Works, which use infrastructure maintenance reporting app SeeClickFix, and apply to campus

1. Pros

a. Would save time

b. Maintain communication between university and cities

2. Cons

a. Involves cost sharing, as app users pay a fee

C. Option 2: Incorporate idea of new app into CS courses

1. Pros

a. Would allow for storage and usage of data about soil and numbers of reports

b. Students of Civil and Environmental Engineering courses (capacity of project-based courses will be about 160 students) or other courses could use data in project to optimize green stormwater infrastructure locations

c. Many students on campus, especially in Computer Science, have the skills to work on such a project

2. Cons

a. SWATeams have historically had difficulty in collaborating with university courses in sustainability projects

D. Option 3: have University of Illinois subscribe independently to SeeClickFix

1. Pros

a. No need to determine how to split costs with Champaign or Urbana

2. Cons

a. Fee fully owed by University of Illinois

b. Advertisement of SeeClickFix appears to show that universities use it, but not which ones and how

E. Downloads and reports should be monitored, regardless of final option implemented

II. Recommendation: monitoring of Parking Lot F23 (behind Florida Avenue Residence Hall) runoff before and after anticipated renovation project

A. Instrumentation should be in place at least one year before renovation

1. Would need specific sensors, ex. turbidity, temperature, flow rate, plus data logging

2. Sensors would add to cost of project if they require calibration

3. Data logger should be above ground to protect from moisture

4. Idea for above-ground trailer with solar panel plus battery

5. Vandalism might be a reason for concern if parts are above ground; properties have experienced unexpected vandalism on college campuses

B. Relates to iCAP objective 5.4, “Inventory and benchmark existing landscape performance” and reduction of stormwater pollutants