## IRA A. FULTON COLLEGE

## Project Status Report: CEEn-2016CPST- : 006 - Pressure Zone Analysis (JUB Engineers) Team Members: Michael Freeman, Spencer Stanley, \& Ryan Harwell <br> Date: 3/31/2017

1) Summary of technical/non-technical challenges encountered
a) Communicating expectations and new information to team members
b) Determining viable new tank locations and optimizing current ones
c) Finding energy cost of each model
d) Determining which tank option is the best solution
2) Team approaches/resolutions to overcome challenges
a) Team members ask more frequently of what has been learned and what's been worked on, what needs to be worked on
b) Decided to try other locations and use unlikely but probable solutions to make them work, i.e.. water tower instead of a ground tank
c) Some research revealed that EPANet can do an energy cost analysis of the model based on kw hours and efficiency of the pumps
d) Observed a huge difference in cost between two water tanks, did some research on that location and found it was in an area that is potentially going to be developed anyway

## 4) Project Status \& Summary

a) All modeling has been completed - Four working models
b) Cost analysis of each model has been completed - best model $\mathbf{\$ 2 0 0 , 0 0 0}$ less than others
c) Final report is nearing completion ( $80 \%$ complete)
d) Poster is nearing completion ( $\mathbf{8 0 \%}$ complete)
e) Final presentation is nearing completion ( $70 \%$ complete)

