Project Status Report: CEEn-2019CPST-002 **Report Date: 2/18/2020**

Team Members: Javen Ivins (Team Focal), Nathan Jensen, Masen Putnam

Project Title: Spanish Fork City Water Demand Peak Shaving Project Description

1) Summary of technical/non-technical challenges encountered

As we discussed our progress with Mike we came to the conclusion that while we had been focusing on issues that were defined in our capstone summary as valuable and important, they were not what was valuable to Spanish Fork as we might have hoped. We also learned that Spanish Fork has a new opportunity for virtually unlimited water supply from Strawberry Reservoir known as the ULS connection. If they are able to get this connection, more storage would not be necessary. A new, rolling average project has been proposed by Spanish Fork that could potentially require obtaining new data.

2) Team approaches & resolutions to overcome challenges

We are working closely with John, Mike and Josie to determine the best course of action for the future with regards to the focus of our project. We have focused on peak shaving and we have determined that the time value of money originally outlined is not feasible. The best course of action would be to determine the value of money Spanish Fork would save by not having to build a new water holding tank.

3) Status of challenge resolutions & potential project impact

If we determine the cost of building a water storage tank, we could show Spanish Fork the value of their work in connecting to the new storage they are trying to obtain. Dr. Williams suggested that we continue to focus on the study that we have been conducting rather than adjusting our focus to a different method.

4) Project status & summary

We have completed most of the analysis of our project. We are now working on compiling data for Spanish Fork so that they might have a better visual idea of the work we have done. We also are working on calculating the present value of money that they could save by adding the ULS connection

Please enter # of hours spent on project this last week for each team member in the order listed above

Member #1: 5 **Member #2:** 5 **Member #1:** 5 **Member #2:**