

**Project Status Report: CEE-2019CPST-002**

**Report Date: 2/10/2020**

**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**

Taking a look at our peak shaving graph, it appears as if the data does not support our claim that the sprinkler controllers save Spanish Fork money. This may be a nontechnical challenge.

**2) Team approaches & resolutions to overcome challenges**

After looking into other data and reasoning with ourselves, we came to the conclusion that the data for our peak shaving graph must be skewed because only three days from each year are taken. We do not believe this is an accurate reflection of what is actually happening throughout the year.

**3) Status of challenge resolutions & potential project impact**

We are preparing for another meeting with Spanish Fork, to report our research and get more data for the peak shaving. With this data we will be able to calculate the present value of not upgrading the pipes for spanish fork.

**4) Project status & summary**

We have now updated the water demand curve and have looked at the average daily water usage. This usage shows that the controllers are in fact saving Spanish Fork a lot of water, but it has not reduced the peak demand. This is possibly untapped potential for Spanish Fork. If they can get the community to work together than they would reduce individual water usage as well as total water usage from peak shaving.

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: