

Project Status Report: CEEEn-2019CPST-0 14

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Project Title: Mapleton City Well Source Protection Plan

1) Summary of technical/non-technical challenges encountered

- We are still in need of the pumping rates for each well to use for the water modeling.
- Various values for the WhAEM model need to be obtained or approved by Mapleton for accurate groundwater modeling.
- A large amount of data needed to be converted from a written list to GIS points on a map and there was no straightforward way to do so quickly.

2) Team approaches & resolutions to overcome challenges

- We will seek to meet with Steve Lord to discuss the assumptions and decisions with completing the groundwater model.
- We used internet searching to and troubleshooting to devise a method of more quickly creating GIS data from the written sources.

3) Status of challenge resolutions & potential project impact

- Working with Steve Lord, we were able to get the right individual involved to get us the pumping rates. We are at a place nearing completion on the modeling so waiting for this data has not yet delayed our progress.
- We continue to review the previous reports we've been given.
- We have learned how to create GIS data using Google Earth and export that in a useable form to ArcGIS.

4) Project status & summary

- We are nearing the completion of a working groundwater model and should be able to finish in the next 2-3 weeks once we have final values for necessary variables decided and approved. The map of Mapleton with GIS data has begun to come together and some of the biggest hurdles have been cleared. We are working to complete a sample report to get feedback from Mapleton City on its final format.