

# Bethany Mestelle

## Project Abstract - Metropolitan Council



### INTERN

#### **Bethany Mestelle**

BS Environmental Science, Policy, and Management;  
University of Minnesota 2021 (expected)

### PROJECT FOCUS

**Water**

### ADVISOR

**Alaina Ryberg**

### COMPANY

**MnTAP and Metropolitan Council**



### COMPANY DESCRIPTION

This project seeks to provide guidance to industries for water efficiency opportunities and aid water supply planning within the Twin Cities Metropolitan Area.

### INCENTIVE

Recommendations from this analysis are intended to inform industry professionals of

opportunities for water conservation within their industry based on what has yielded significant savings for other companies in the past.

### **GENERAL APPROACH**

Historical data on industrial water efficiency recommendations from general technical assistance and intern projects by the Minnesota Technical Assistance Program has been analyzed to identify recommendations resulting in significant water conservation for a company.

### **FOCUS OF RESEARCH / RECOMMENDATIONS**

MnTAP water focused recommendations have been evaluated and compiled into a working data set that initially comprises five years of technical assistance activities. This data set has been categorized based on the recommendation type including: maintenance activities, strategies to more efficiently use water in current operations and significant equipment or process modifications for improved water efficiency as well as domestic and irrigation water use. These recommendations have been evaluated on a per-industry basis, accounting for the total gallons reduced, gallons reduced per recommendation, as well as the economic savings that accompany each recommendation. Outcomes of this work will be a list of significant water efficiency measures that can be broadly applied across industries as well as significant efficiency measures that may be industry specific.