Background and Objective

- Paper Mill is focusing on improving the efficiency of the paper making process.
- A huge amount of fiber that is still usable for paper making is lost in waste stream that goes to the waste treatment system.
- Determine the usable fiber in the waste stream
- Search for a system to recover usable fiber economically

Sampling Plan

- Sample collection point is set at the overall waste stream
- Bucket collects sample continually
- At the end of the day a 500 mL sample from the bucket will be delivered to the lab
- Fiber tester would measure the fiber in the sample

System Parameters

- Fiber length (mm) and distribution
- Stream flow rate (MGD)
- Solid consistency (%)
- Fiber mean width (µm)

Future Work

- Set up a new sample collection point on the OCC waste stream
- Apply mass balance to find out the usable fiber distribution of OCC plant, paper plant, and overall waste stream
- Search for the best system to recover the usable fiber

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