

# Stock Tank Mixing Team Detailed Task List: Spring 2014

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## **Stock Tank Mixer**

- Conceptualize and design schematic vertical mixer considering proportional dimensional restrictions of AguaClara tanks
- Construct small scale mixer to fit in 18L rectangular tank
- Perform qualitative tests to evaluate general bucket performance and mixing potential
- Utilize LED light analysis to record mixing effectiveness and efficiency of system
- Assess required design changes to improve efficiency and project specifications of full-scale mixer
- Design usage pulley system for full-scale mixer implementation

## **Chlorine Density Measurement**

- Assess utility and practicality of hydrometer usage at plant
- Design or purchase robust density measurement device for chlorine