

# TEAM MINUTES - 10/14/20

Location: Zoom  
Present: ALL  
Time: 3:30-4:40  
Writer: Jaden Cavender

## Agenda Items

1. Presented Jaden's idea for a modified tank based on Ben's separation idea. Design uses side ramps as well as layered screens to maintain layering, while enabling airlifted particles to separate internally in a piping system. Design Consideration are:
  - Lower Airlift
  - Remove top screen for dirty water and instead rely on pressure for separation
  - Analyze pressure to make sure air lift is active
  - Outflow pipes and the screens separating the pipes must be analyzed to prevent particle mixing in the wrong layer.
  - If effectiveness of separation is too low, also consider implementing a second screen for extra effectiveness after the airlift.
2. Analyzed Tayson's box screen idea in CAD. Could be installed above airlift for increased effectiveness.

Action Items	Owner(s)	Deadline	Status
Fluid Simulation	Jaden	10/21	In Progress
Fluid Simulation	Ben	10/21	In progress
Start expected BOM pricing	Tobias	10/15	In Progress
Refine Screen Idea in CAD	Tayson	10/15	In Progress
None	Blake		
Research water filter designs.	Full Group	10/30	In progress

