

ENVIROGUARD WASHOUT SYSTEMS

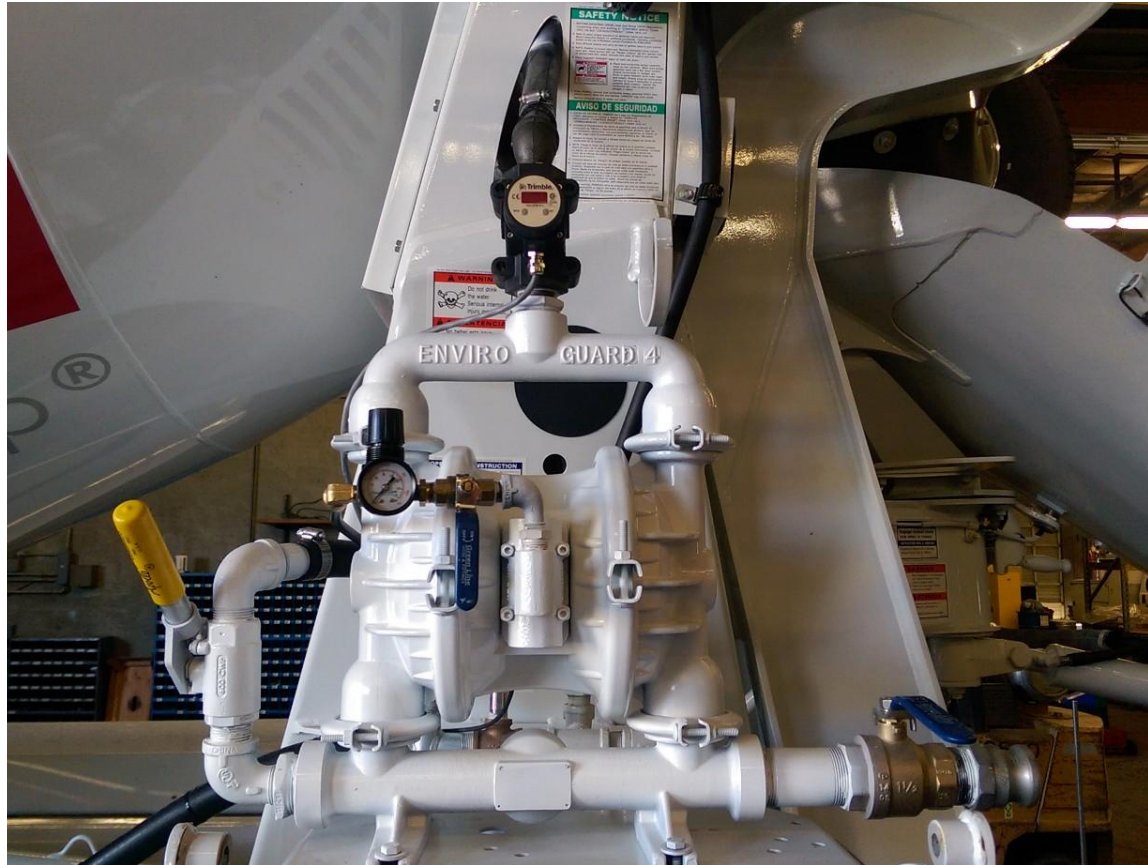
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Project outline

- Develop a new plumbing method to eliminate slurry buildup and settling in the enviroguard wash out pump.
- Focus on streamline installation
- Minimize additional materials
- Speed up pump wash up time

Installation, Rear Discharge Mixer

- Best practice is to install pump on ladder platform.
- Takes advantage of the already present upper water supply line already supplied by the mixer manufacturer. And eliminates the need to install an additional one.
- This can only be done on electronically controlled mixers without cable control boxes



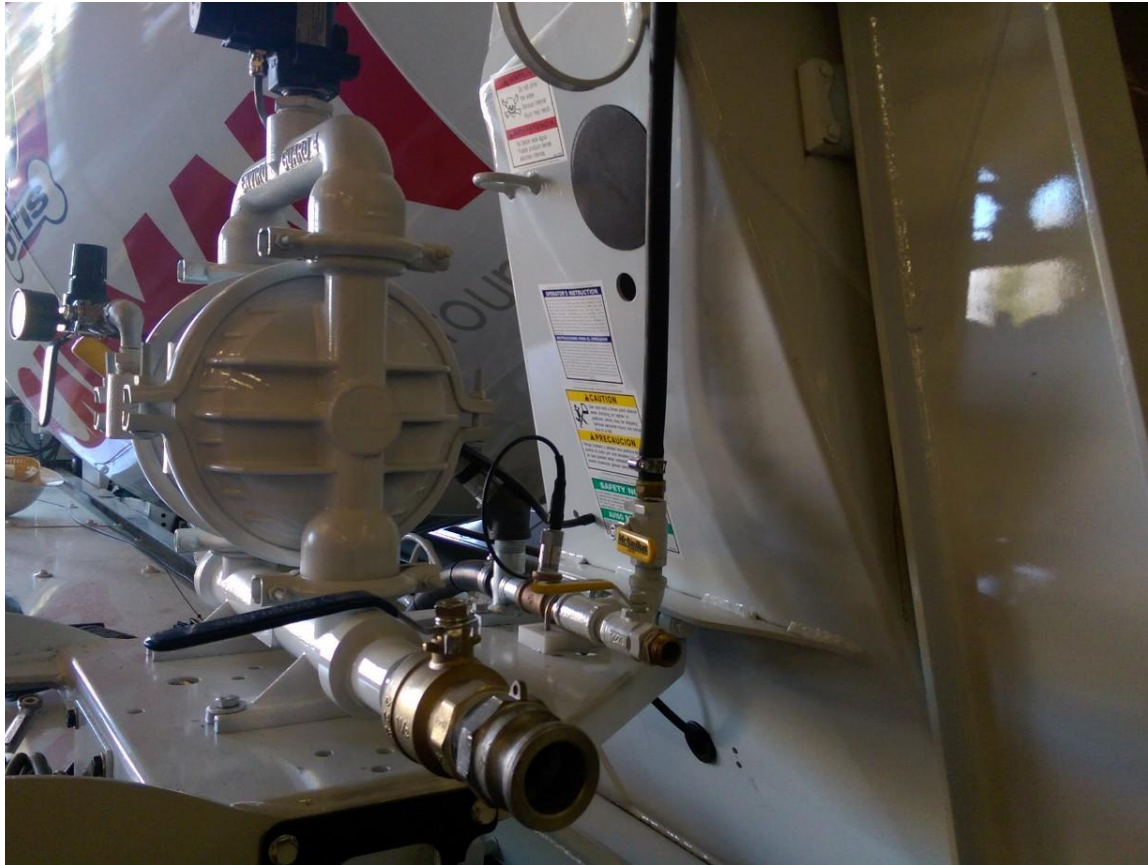
Rear ladder platform installation

- Ladder is removed for picture clarity.
- Use of Trimble water meter is optional but gives user the ability of knowing exactly how much water Enviroguard has used during clean up.



Add water supply from truck is now plumbed thru the Enviroguard pump.

- A spring valve is encouraged, as this prevents unintentional water added to loads.
- All water now added to loads flows thru pump unit. Water will flow without the aid of the pump.



Wash out system side of pump

- Ball valve is now part of wash water side of pump.
- Cam lock is moved to end of ball valve.

New washout instructions

- Scrape down chutes of excessive concrete.
- Connect washout hose and bucket.
- Open 2 inch ball valve.
- Turn on enviroguard pump
- Rinse down unloading hopper and chutes.
- Once all dirty water has been evacuated from bucket, shut Enviroguard pump off.
- Leaving 2 inch ball valve open, add some supply water, it will flow the lower part of the pump and into the bucket still hanging on the chutes.

Wash out continued

- Turn back on Enviroguard pump and evacuate the back flush water.
- Close 2 inch ball valve
- Remove hose and bucket from chutes and return to storage.
- Lastly, open water supply valve and add a quick flush thru Enviroguard pump.

Simple and fast

- Just by a simple plumbing change, and a slightly different wash out process, we eliminate any slurry material remaining in any part of the enviroguard pump system.

Winter weather water draining process

- Preventing water from freezing in the pump and hoses is critical.
- To drain the system is easy. Open the 2 inch ball valve and turn on the enviroguard pump.
- The air action from the pump will push the upper check balls up and pull the lower check balls off the seats and allow all the water to gravity drain out the 2 inch ball valve.
- Entire drain process takes about 1 minute.