

## Barbara Buikema

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**From:** Chris Foley  
**Sent:** Tuesday, November 16, 2021 8:17 AM  
**To:** Barbara Buikema  
**Cc:** Ed Waggoner; Karla Cristi  
**Subject:** RE: Question from Mr. White  
**Attachments:** Emerg-Crit- WOs 2021.PNG

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Barbara,

Not typical. Here is a summary.

- We had an issue with an automatic transfer switch at Monte Verde and had to replace a component. We modified the door so the issue will not occur again. Water damaged a control board.
- The front gate railing at the plant was damaged by a Clark Bros delivery truck. Clark Bros paid for the repair.
- Digester mixing pump had rags which will improve with new headworks screens.
- DAFT wasting pump would not consistently pump. Initial inspection did not identify an issue with the internal components. After research the wear plate was reversed and the pump is back to normal operation. A new alarm for low flow was added to notify operations when the pumping drops below threshold.
- 47% of emergency work orders were related to the MF/RO pad. The challenges related to timely chemical deliveries created multiple callouts. This included ammonia and Phos-58 cerium chloride coagulant. Ed is researching the cost and availability of alternatives for coagulant.
- A phantom alarm was triggering which resulted in multiple callouts. This is related to SCADA upgrade work. A logging sequence was added to the program by Frisch engineering and the phantom alarm stopped. We are still working on alarming edits and will continue to monitor. New graphics are planned to help identify alarm sources at the SCADA level which will help diagnose alarming bugs in the system.

Attached is chart depicting the trend for 2021.

The average for critical is 7.9 per month.

The average prior to October for emergency was 5.2 WO and including October is now 7.6 for YTD. The number of emergency work orders for November currently sits at 3 so October is a definite outlier.

Regards,

Chris

**From:** Barbara Buikema <Buikema@cawd.org>  
**Sent:** Monday, November 15, 2021 6:32 PM  
**To:** Chris Foley <Foley@cawd.org>  
**Subject:** Question from Mr. White

P. 48 of board packet

Is the number of Emergency & Critical work orders typical?

### Emerg/Crit WOs 2021

