

Berger, Amanda A

From: [REDACTED]
Sent: Tuesday, June 1, 2021 6:07 AM
To: Krueger, Robert D
Cc: Rhodes, Peter B; Berger, Amanda A; **Mag Ostrom**
Subject: RE: [EXTERNAL] Stoneridge/Sedgefield water system ID: NC 0368185

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning Rob:

Again, thanks for making Jason available to us for an on-site Q&A last week! We feel fortunate to have him looking after our water system. A few follow-up questions:

1. If we understand it correctly, all of our wells pump in unison and receive their commands via a network connection. Does this communication link represent a possible single point of failure for our water system? If so, can anything be done to address it?

Communications of any type in this neighborhood are notoriously fickle, particularly during power outages. I've actually had to walk or drive into Chapel Hill in the past to report some power outages as even nearby cell towers were out. Of course, cable cuts can occur at any time almost anywhere. Ideally, the water system would be able to function at some level for hours or days autonomously during such a communication loss without the need for attendance by someone from Aqua who may not be able to promptly make it here.

2. Is there a detailed extended power outage plan for our water system? We understand that your plan generally employs roving generators but does any detailed plan for our water system specify which wells are to be connected to generators during long outages and are those wells 'generator ready'? By 'generator ready' we mean that an electrician is not required at the well to connect a generator and that any hardware required is already in place at the well. We only visited one well (Stoneridge Well #1) but did not see any obvious external plug-in location for a generator or a related power transfer switch.

3. Would there be any cost or reliability benefit by transitioning to variable speed well pumps? It would seem that these could reduce 'water hammer' effects by maintaining a narrower range of system pressures.

And on older matters:

4. We'd appreciate any status updates on replacing the most problematic water valves and on specifying generator requirements for the water system here so that we can obtain quotes. Hopefully these projects are still in the queue.

Best wishes, [REDACTED]

--

Please consider the environment before printing this message.

Confidentiality Notice: The information in this e-mail and any attachments may be legally privileged and confidential. It is intended solely for the addressee. If you are not the intended recipient, any disclosure,

copying, distribution or any action taken or omitted to be taken in reliance on it, is prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender and permanently delete the e-mail and any attachments immediately. You should not retain, copy or use this e-mail or any attachment for any purpose, nor disclose all or any part of the contents to any other person.