

Berger, Amanda A

From: Berger, Amanda A
Sent: Tuesday, August 10, 2021 11:35 AM
To: Guyer, Shawn; Krueger, Robert D
Subject: RE: [EXTERNAL] Stoneridge Master [NC0368185] Sedgefield Well #5

Shawn – I only have **Bill Smith** contact information. I will send to him and ask he distribute to the others in the committee. You will bcc:// on the communication.

Thanks,
Amanda

From: Guyer, Shawn <shawn.guyer@ncdenr.gov>
Sent: Tuesday, August 10, 2021 11:20 AM
To: Berger, Amanda A <[REDACTED]>; Krueger, Robert D <[REDACTED]>
Subject: RE: [EXTERNAL] Stoneridge Master [NC0368185] Sedgefield Well #5

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Thank you for the response Amanda.

Mr. **Smith** messaged me last week asking for an update. Do you want to convey this information to the “Water Committee” yourselves?

Shawn

From: Berger, Amanda A <[REDACTED]>
Sent: Tuesday, August 10, 2021 11:13 AM
To: Guyer, Shawn <shawn.guyer@ncdenr.gov>; Krueger, Robert D <[REDACTED]>
Subject: RE: [EXTERNAL] Stoneridge Master [NC0368185] Sedgefield Well #5

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Shawn,

After a thorough review of the system and water quality results, Aqua is evaluating deactivating well #5 until such time as it can support permanent secondary water quality treatment. The operator will be turning the well off tomorrow. Aqua will be monitoring water quality and quantity over the next 90 days. If it is determined that the system can be supported without the well, Aqua will request deactivation.

If you have any questions or concerns with the proposed evaluation, please don't hesitate to contact either Rob or myself.

Thank you,
Amanda





From: Guyer, Shawn <shawn.guyer@ncdenr.gov>
Sent: Friday, July 16, 2021 1:26 PM
To: Krueger, Robert D <[REDACTED]>; Berger, Amanda A <[REDACTED]>
Subject: [EXTERNAL] Stoneridge Master [NC0368185] Sedgefield Well #5

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Rob/Amanda,

Jonathan Smith and the other members of the HOA Water Committee reached out to ask me several questions recently. Their concern was primarily about the chemical change at Sedgefield Well #5 (SE5/P05) to the Carus 4500 orthophosphate product. This product replaced the previous polyphosphate product installed as a sequestering agent. They appear to have contacted the chemical company inquiring about the sequestering capabilities of this new product and were told that Carus 4500 provides no sequestering of minerals. Here is what they sent me:

I have learned recently that the orthophosphate chemical in use since early 2020 is Carus 4500, which was substituted for the polyphosphate previously used. This action was taken to help stop the corrosion of the copper water pipes in our homes and the copper water supply lines leading to our homes. The polyphosphate compound previously used was an effective sequestering agent, but had the side effect of corroding the copper pipes and releasing free copper into the water to an actionable level. I also understand that the new orthophosphate compound in use (Carus 4500) does not have any sequestration function, and thus does not control the manganese precipitates in our water. I have confirmed this statement in a recent conversation with the Carus technical representative, Dylan Kemmerer. Carus 4500 is an effective corrosion inhibitor, but provides no sequestration activity. Recent communications with Aqua also confirm that they are not sequestering manganese in our water system.

If this information is correct and the new chemical does not provide a sequestration function, please address how Aqua intends to control the manganese concentrations produced by this well. Compliance manganese monitoring concentrations are above the action level of 0.05 mg/L specified in 15A NCAC 18C .1512 and treatment for control of manganese concentration is no longer installed. Recent compliance manganese results:

05.05.2021	0.152 mg/L
04.18.2018	0.105 mg/L
04.21.2015	0.284 mg/L
04.18.2012	0.113 mg/L

Also, please submit the documentation supporting the chemical change from SeaQuest (as specified in the 01/07/2019 approval, Serial #18-00993) to the Carus 4500 product in use now at this treatment facility..

Thanks,

Shawn

Attachment 12
W-218 Sub 573

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Raleigh Regional Office
Public Water Supply Section
Division of Water Resources
Department of Environmental Quality

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