

Yerdon, Ian

From: Sardino, Jacob
Sent: Thursday, October 5, 2023 1:11 PM
To: Yerdon, Ian; Auer, Christopher J (HEALTH)
Cc: King, Monika A (HEALTH); Phillips, David S (HEALTH)
Subject: RE: (T) Sterling Water District #2 Tank Sizing Calcs (Cayuga Co, DWSRF 18128, BWSP Log 20532)
Attachments: Network Preview.pdf

Hi Chris,

Per our phone conversation earlier today, I've outlined our reasons and justifications for sizing the tank, as proposed, below.

Firstly, the proposed tank is intended to supply future water districts in the Town of Sterling. I have attached the hydraulic model created for the entirety of the Town to demonstrate our future plans for the Town. In the meantime, the proposed tank site will have a mixing system, the ability to re-chlorinate, and the potential of flushing to mitigate the effects of water "aging". Until future districts are put online, the tank will have the ability to operate at a lower hydraulic level allowing for more turnover.

Lastly, the project was budgeted based on construction of a standpipe tank. In our experience, the difference in cost between standpipe and elevated tanks is nearly double. By constructing this tank as proposed, it will prevent the need for additional tanks throughout the Town, thus reducing future costs for future water systems..

If you have any additional questions or concerns, please let us know.

Best,

Jacob Sardino, EIT
Engineer

Suite 70

[jk](#) | [LinkedIn](#) | [Instagram](#)

<ian.yerdon@C2AE.COM>
, October 4, 2023 2:09 PM
phper J (HEALTH) <christopher.auer@health.ny.gov>
a A (HEALTH) <Monika.King@health.ny.gov>; Phillips, David S (HEALTH) <david.phillips@health.ny.gov>;
o <jacob.sardino@c2ae.info>
.: (T) Sterling Water District #2 Tank Sizing Calcs (Cayuga Co, DWSRF 18128, BWSP Log 20532)

I sent you a zoom meeting invite.

Ian F. Yerdon, P.E.
Professional Engineer

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