



Summer Villages Norris Beach

P.O. Box 100 (605 - 2nd Avenue)

Ma-Me-O Beach, Alberta T0C 1X0

Phone: (780) 586-2494

Fax: (780) 586-3567

E-mail: Information@svofficepl.com

September 22, 2017

WASTEWATER UPDATE Pump and Rail System Questions and Answers

- 1. Why do we need a stainless steel check valve when it is so much more expensive than PVC and connected to PVC on either side?**

The stainless steel check valve is more robust and has a longer life than the PVC. It is expected to last about 10 years longer. The replacement of the check valve requires that the tank be cleaned out and a worker enter the tank to make the replacement. MPE felt that the additional cost which gives an additional 10 year life was the better choice. As the Summer Village is responsible for the maintenance of the system, the Summer Village concurs with this decision.

- 2. Why is there a Styrofoam disc in the riser when you have to allow space for the pump, the alarm wires and the rail system? How will it seal and how will it be removed for maintenance?**

The Styrofoam disc (frost plug) is only required if the outside of the riser has not been insulated. The frost plug is set down into the riser and rests on tabs. It comes with an attachment that will allow it to be pulled up when required. It is installed above the rail system and has a small notch in the side to allow the wires to pull through. The notch is sized to meet the needs of the wires.

- 3. If the tank is properly buried at the 1.2 meter depth, why is the riser required to be insulated?**

There will a higher likelihood of freezing in the tank with this system than there was before. There will be very little thermodynamic activity in the tank as it will be empty or close to empty on a regular basis. The engineering firm wanted to avoid any issue with freezing or damage to the pumps if they are run when there is ice in the tank. Therefore, they have recommended that there be insulation for the risers. There are two ways to meet the insulation requirement. You can insulate the outside of the riser (in which case you will not need the frost plug) or you can leave the riser without external insulation and use a frost plug.

In all cases the lid needs to be insulated. If your lid is not insulated you have a couple of choices – you could attach Styrofoam into the underside of the lid, or you can place a second frost plug immediately under the lid resting on the riser.

4. How do you get the wires out of the riser and still keep a seal on the insulated lid?

A normal riser has a standard notch that will allow the wires to come out. If you do not have a notch the installers will make one. The notch is then filled with foam insulation to make the seal.

5. Why do we need a rail system?

The rail system is an important part of the system. It provides easy access to the pump for maintenance or replacement. It is connected to a base which stabilizes the pump during operation. It also provides the quick connect between the pump and the outflow pipe. Without the rail system, the connection to the output line would have to be manually disconnected and reconnected for maintenance.