RMS Pump, Inc.
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CCB #173135
UBI #602 651 292
LPI Electrical

To: Bryan Henrichsen
Company: City of North Bonneville
RE: Submersible Pump Inspection
Email: bryanh@northbonneville.net

Date: 7/29/2020
From: Luke

The following report covers the inspection of (2) Moody Submersible Pumps which service the Main Lift Station for the city prior to the treatment plant. Both pumps were removed and inspected both motors were checked with an Ohm Meter, Megger and Oscilloscope.

Both motors checked out ok the megger reading was a little low and this could be due to moisture in the line or the connection to the panel (both pumps have a quick release fitting for easy disconnection). Both pumps impellers showed signs of damage associated with debris like rags, feminine hygiene products, diaper wipes, etc. being flushed, these style pumps have a single discharge port on the impeller so when things like rags get flushed the tend to get hung up in there till the point of Damage and/or Failure.

When the pump on the north side of the sump was removed it was clogged with rags and feminine hygiene products, with these clogged in to the impeller the pumps performance is dropped and the motor tends to run at a higher amp load which can be bad for both motor and controls. The impeller on this pump is in very bad condition (missing a big section) it has a sharp jagged edge which is going to catch everything that might pass and it will eventually build up to the point of a failure. We recommend that both pumps be serviced and impellers replaced, both impellers look as if they are down to 75 or 80% from factory.

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The loss of material on both impellers has both pumps running at a lower performance causing them to run more frequently and for longer periods. I have included photos with this report showing the damage. During these last few months we have seen a rise in sanitary wipes being flushed and causing problems with the pumps, we are informing customers that these items need to be discarded in the trash to ensure no damage to the equipment.

Thank you for giving us the opportunity to work with you and the city we appreciate your business!

Thanks, Luke

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