Figure 1Raw water influent

Figure 2 2 Prv's with PLC control flow

Figure 3 Chemical injection, Master flow meter, PLC controlled

Figure 4 Master flow meter SCADA monitoring

Figure 5 Master flow meter

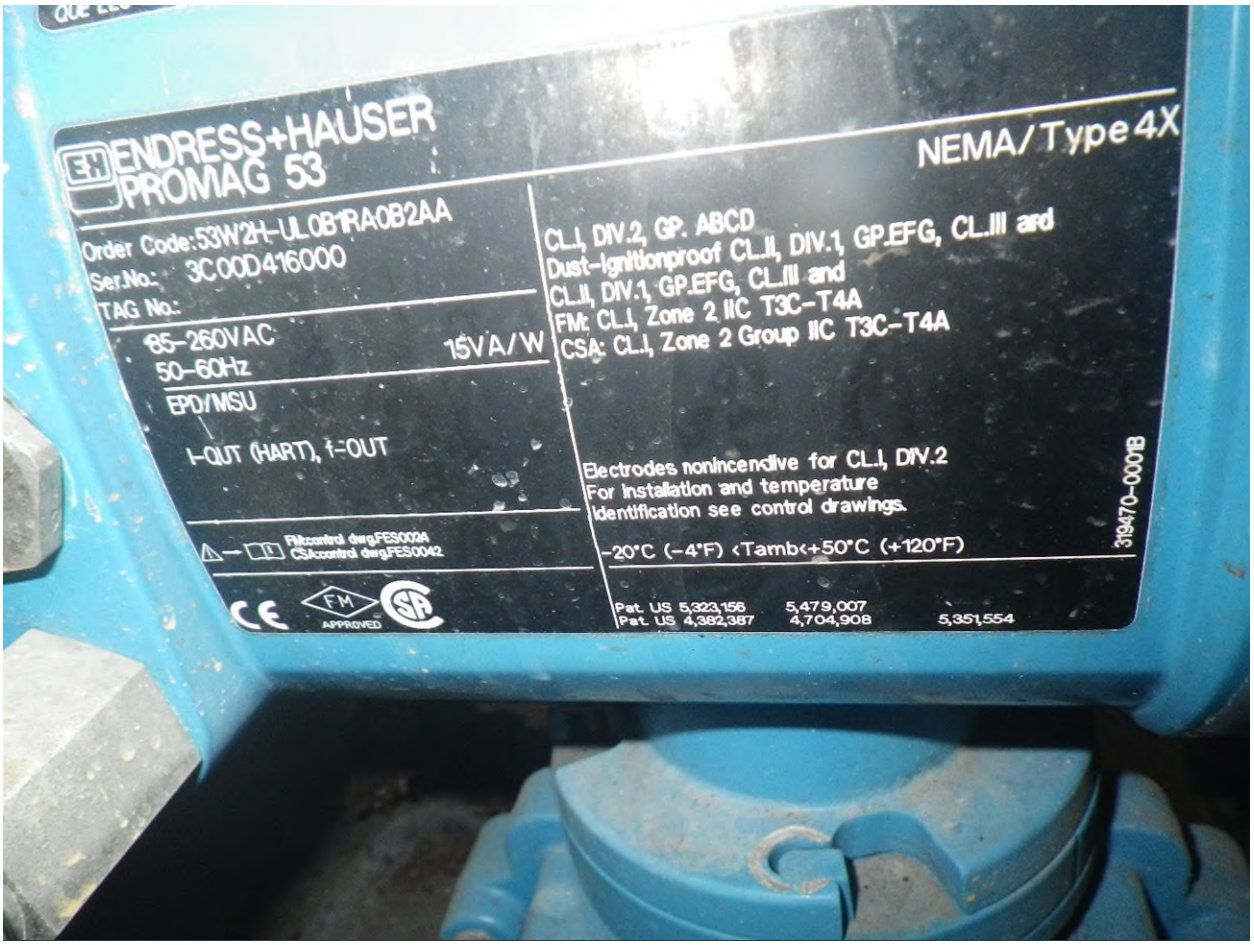

Figure 6 Master meter

Figure 7 Filter 1A, chart recorder, master PLC

Figure 8 All 4 filters and Back wash pump

Figure 9 Soda Ash Slurry Station, 4-20 MA signal, PLC

Figure 10 Soda Ash pump, 4-20 MA

Figure 11 Soda Ash box

Figure 12 Soda Ash Box

Figure 13 Alum Station, this is part of the original system, and the new system.

Figure 14 Alum startion

Figure 15 Alum Station

Figure 16 Alum Station

Figure 17 Alum Station

Figure 18 Alum Station

Figure 19 Alum Station, old pannel

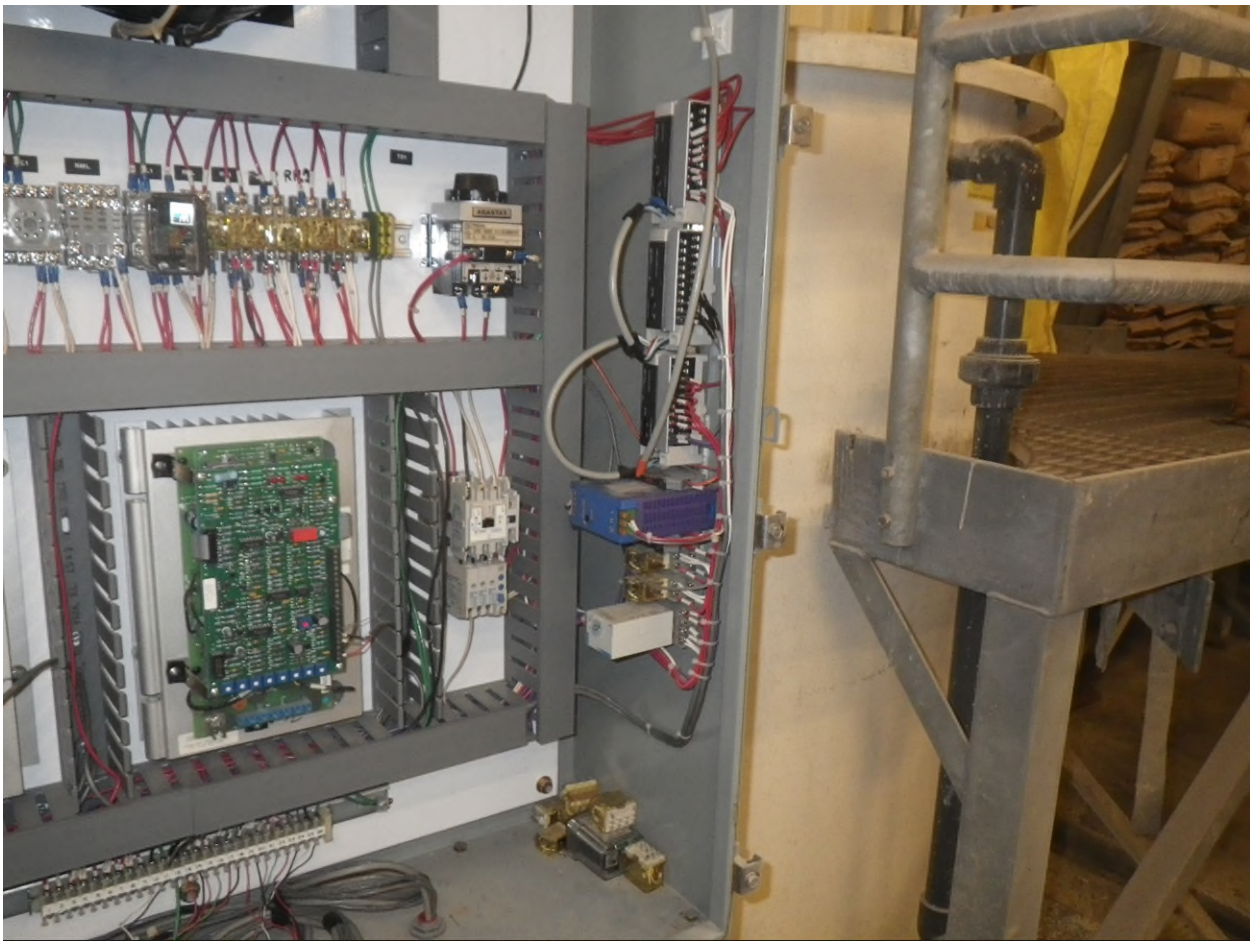

Figure 20 Alum station, old panel

Figure 21 Polymer Station

Figure 22 Polymer station

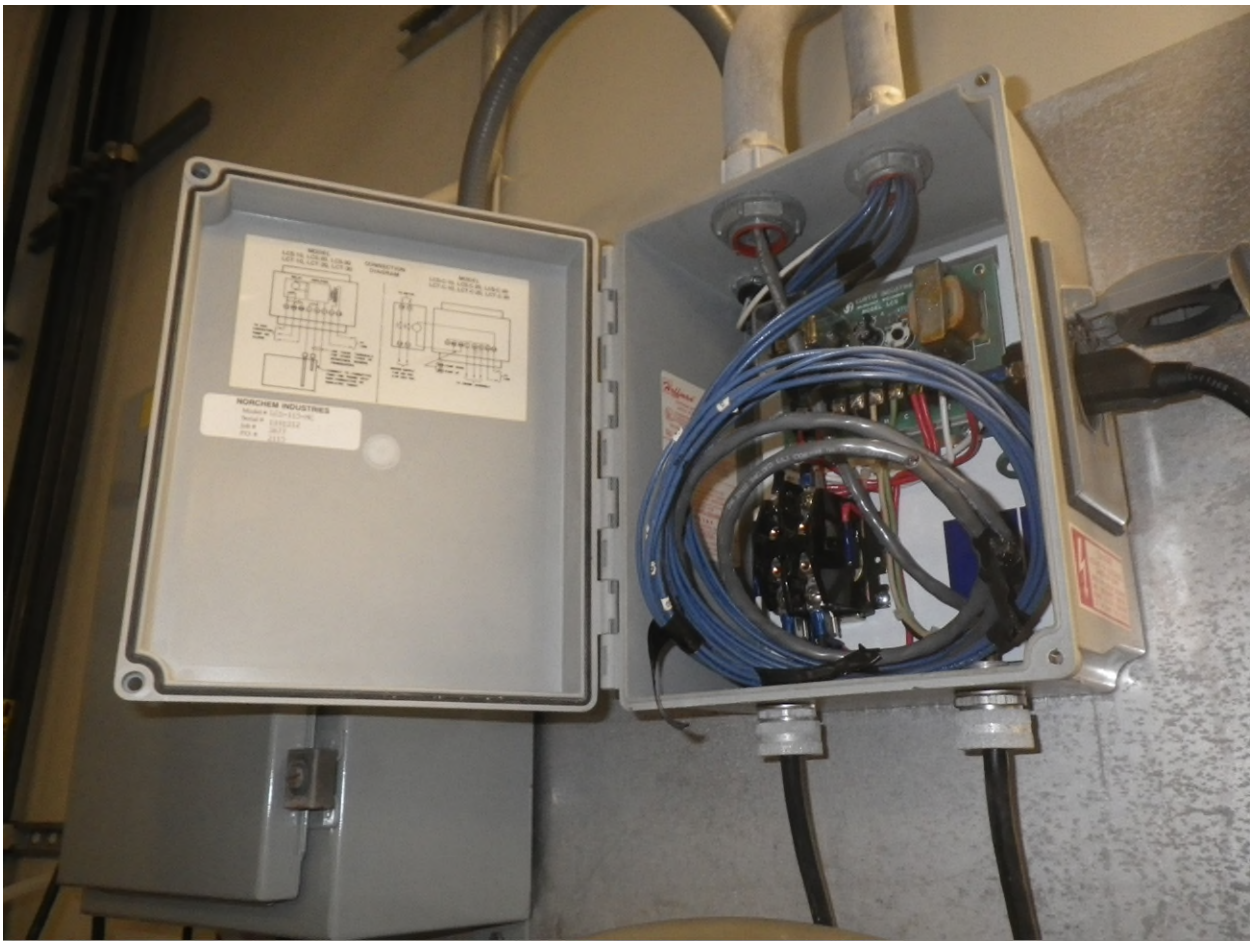

Figure 23 Polymer station

Figure 24 Polymer Station

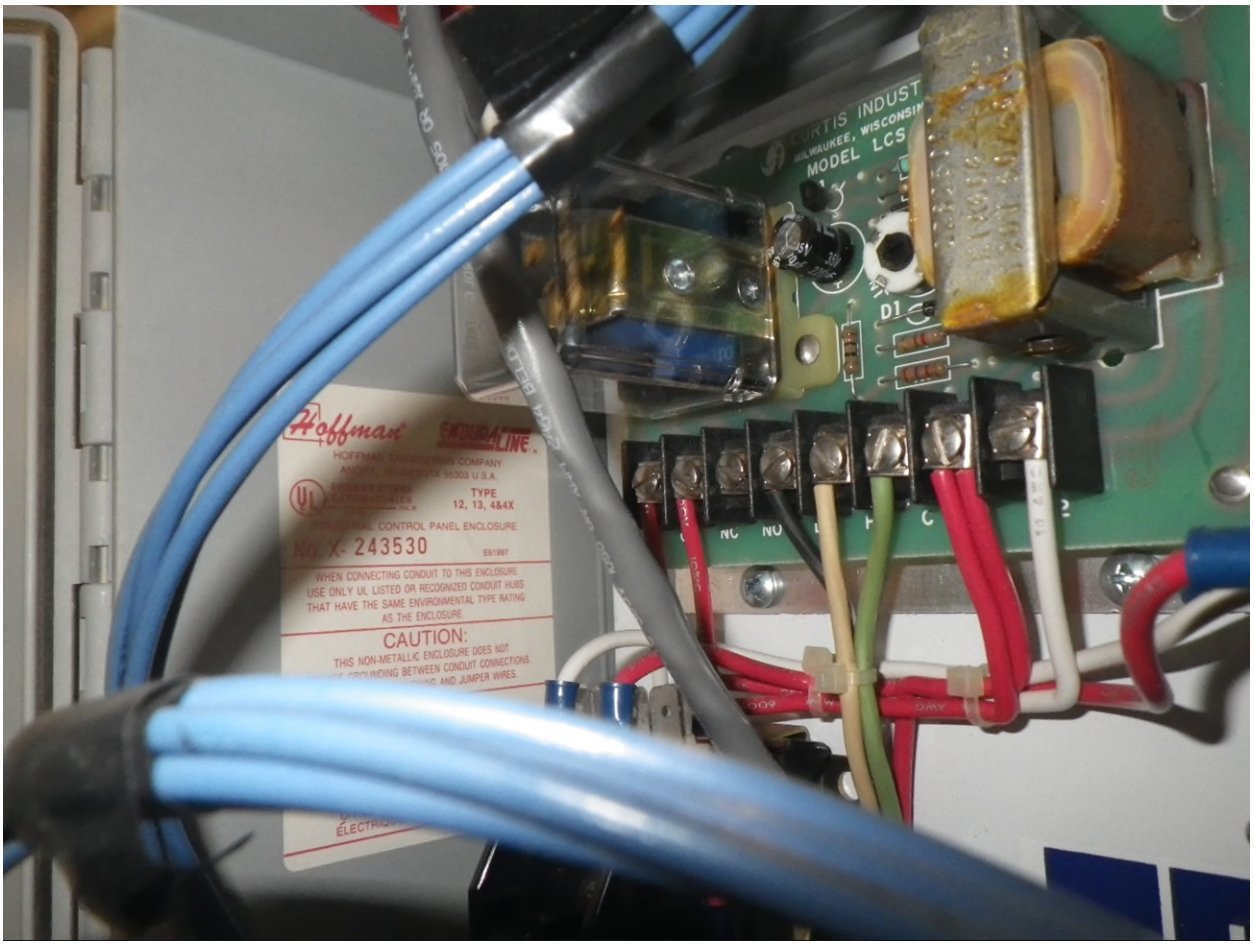

Figure 25 Polymer Station

Figure 26 Filter A1

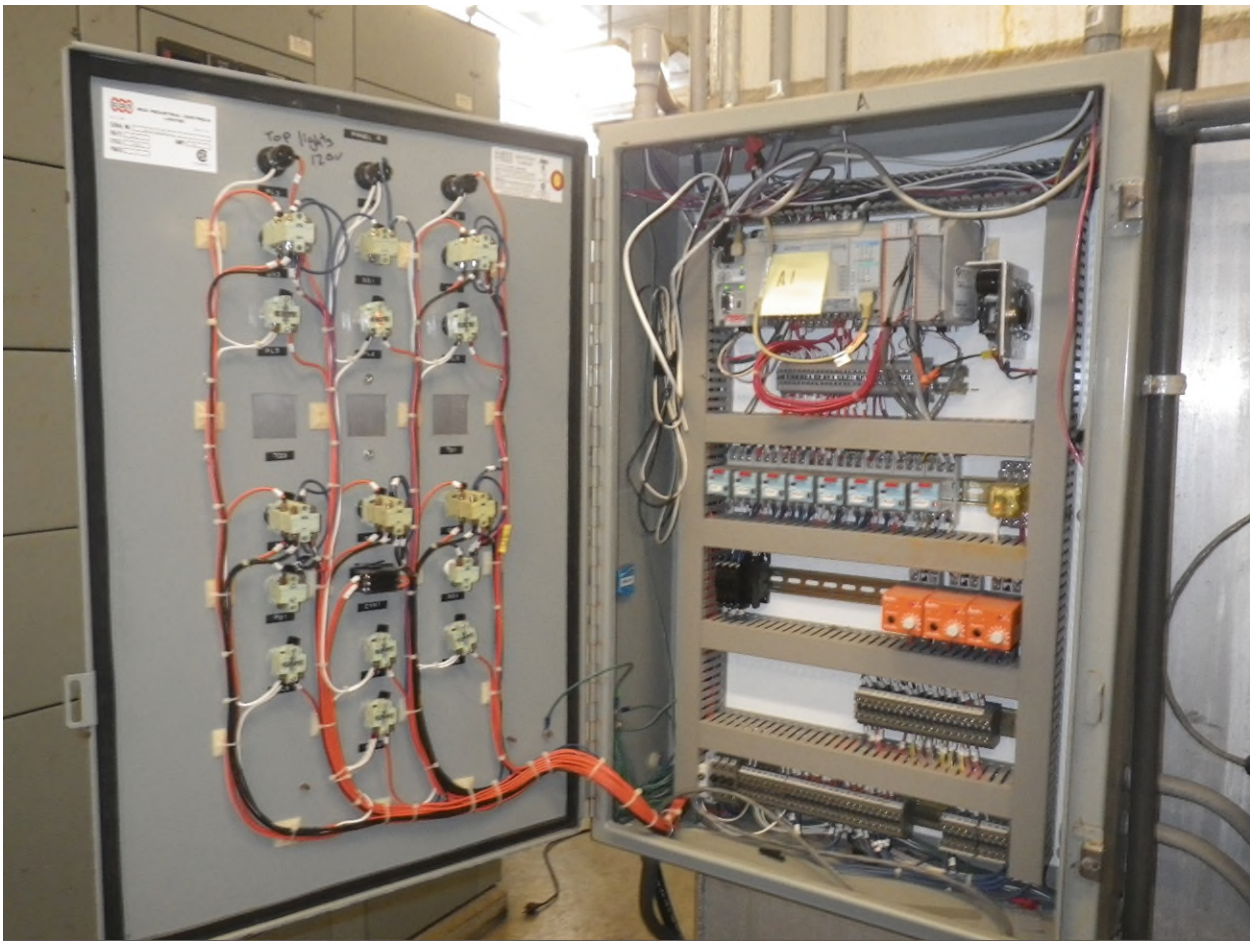

Figure 27 Filter A1

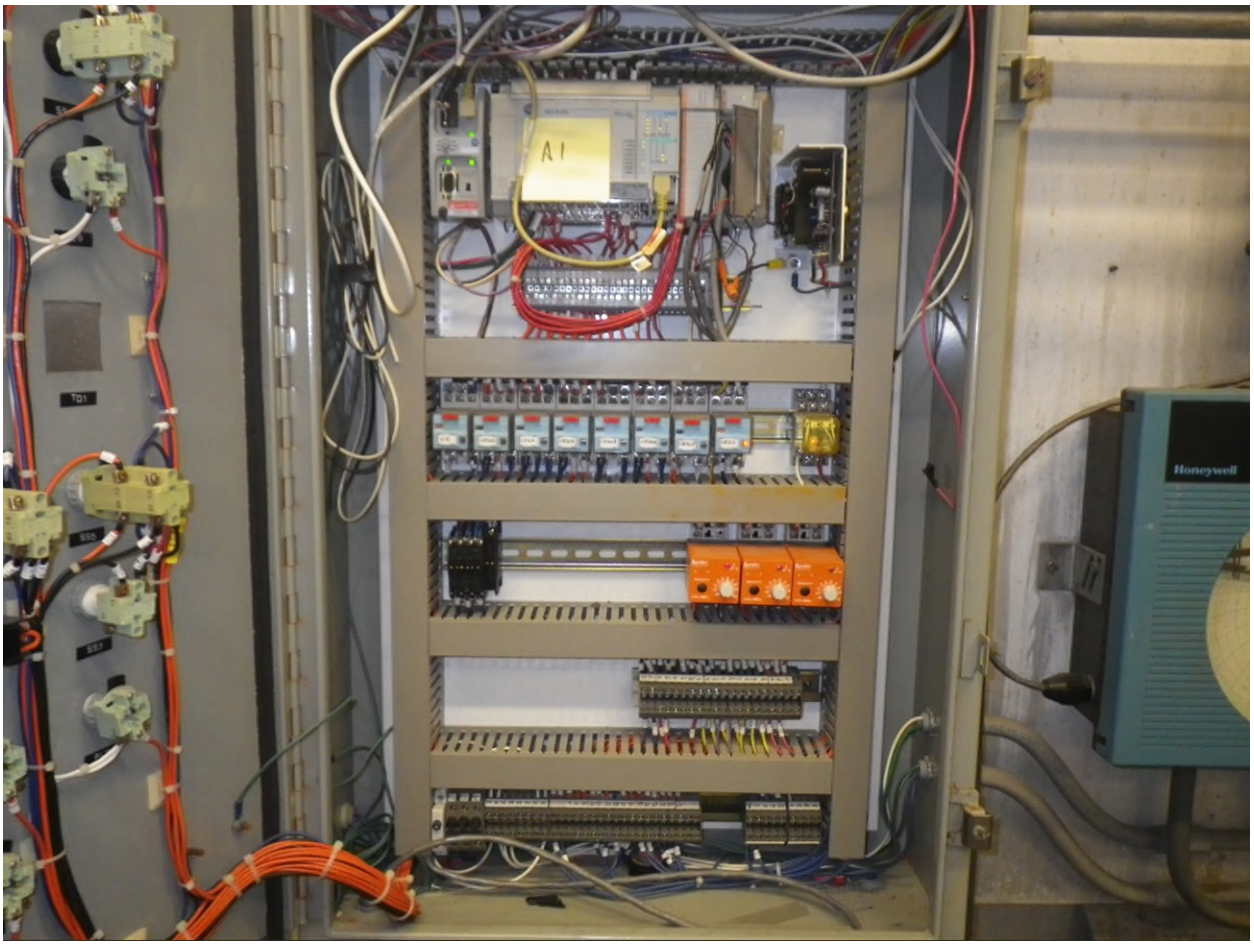

Figure 28 Filter A1

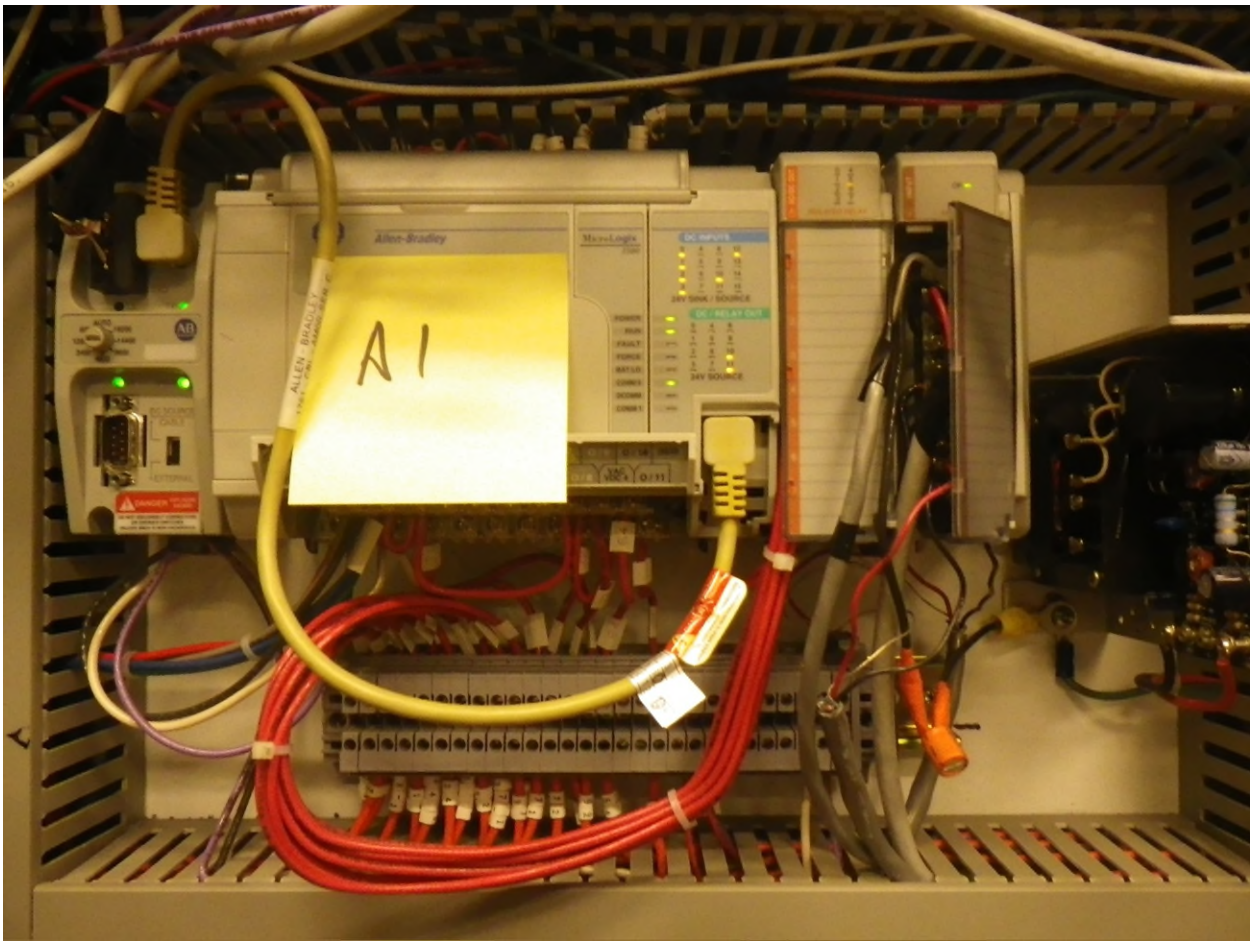

Figure 29 Filter A1

Figure 30 Filter A1

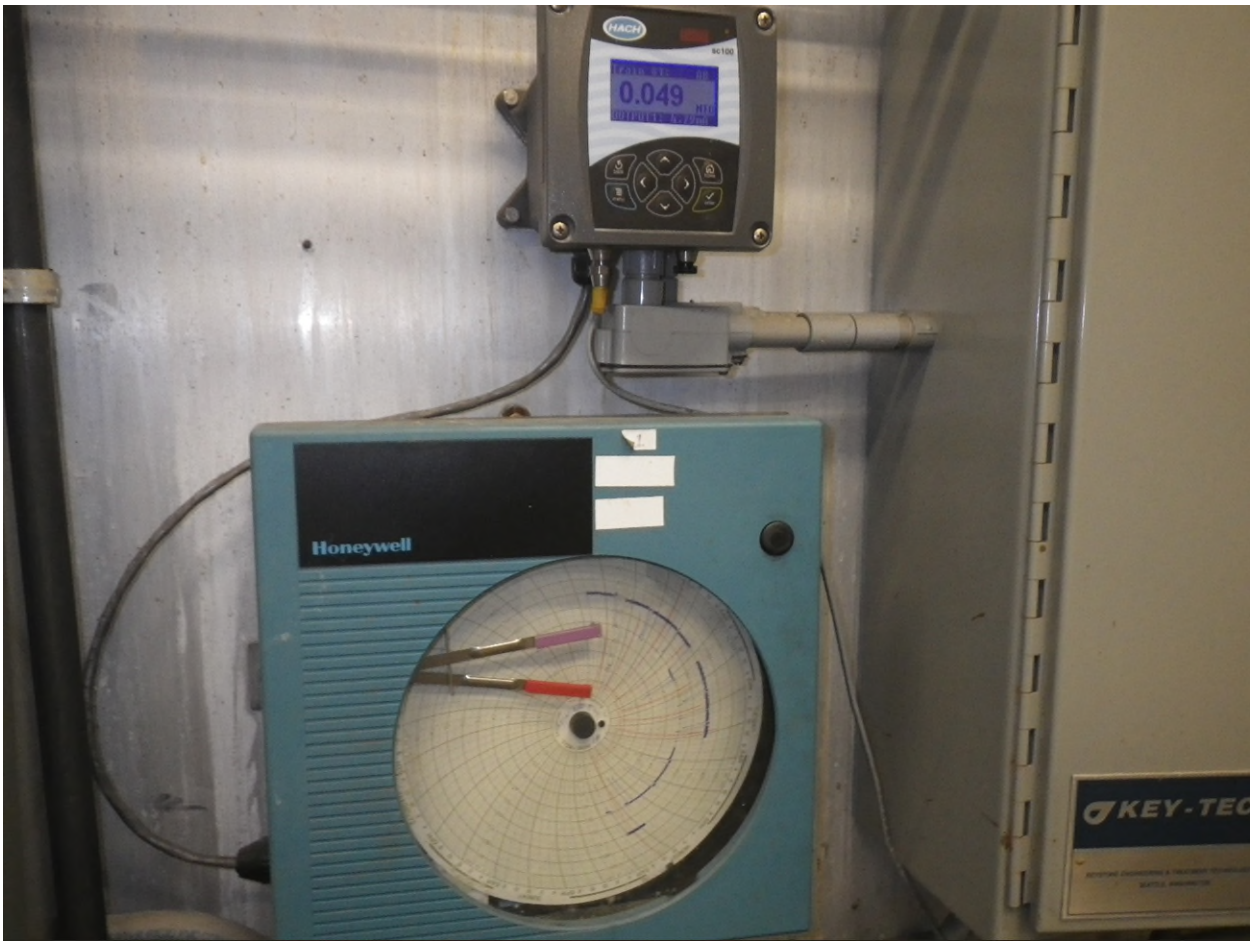

Figure 31 Chart recorder for turbidity

Figure 32 Turbidity controller, for 1720E turbidity meters

Figure 33 Chart recorder

Figure 34 Filter B2

Figure 35 Filter B2

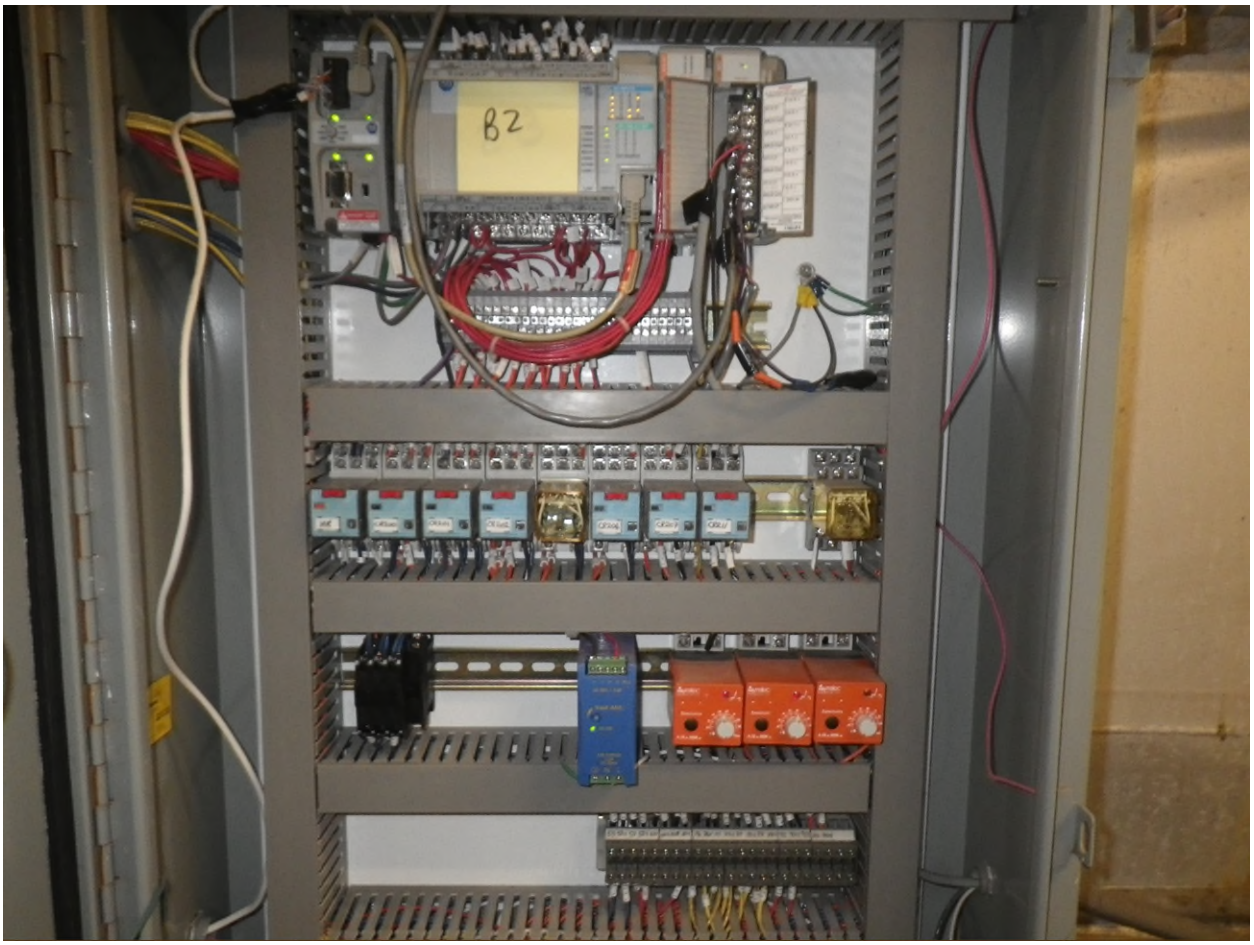

Figure 36 Filter B2

Figure 37 Fitler B2, chart recorder, and turbidity meter

Figure 38 filter C3

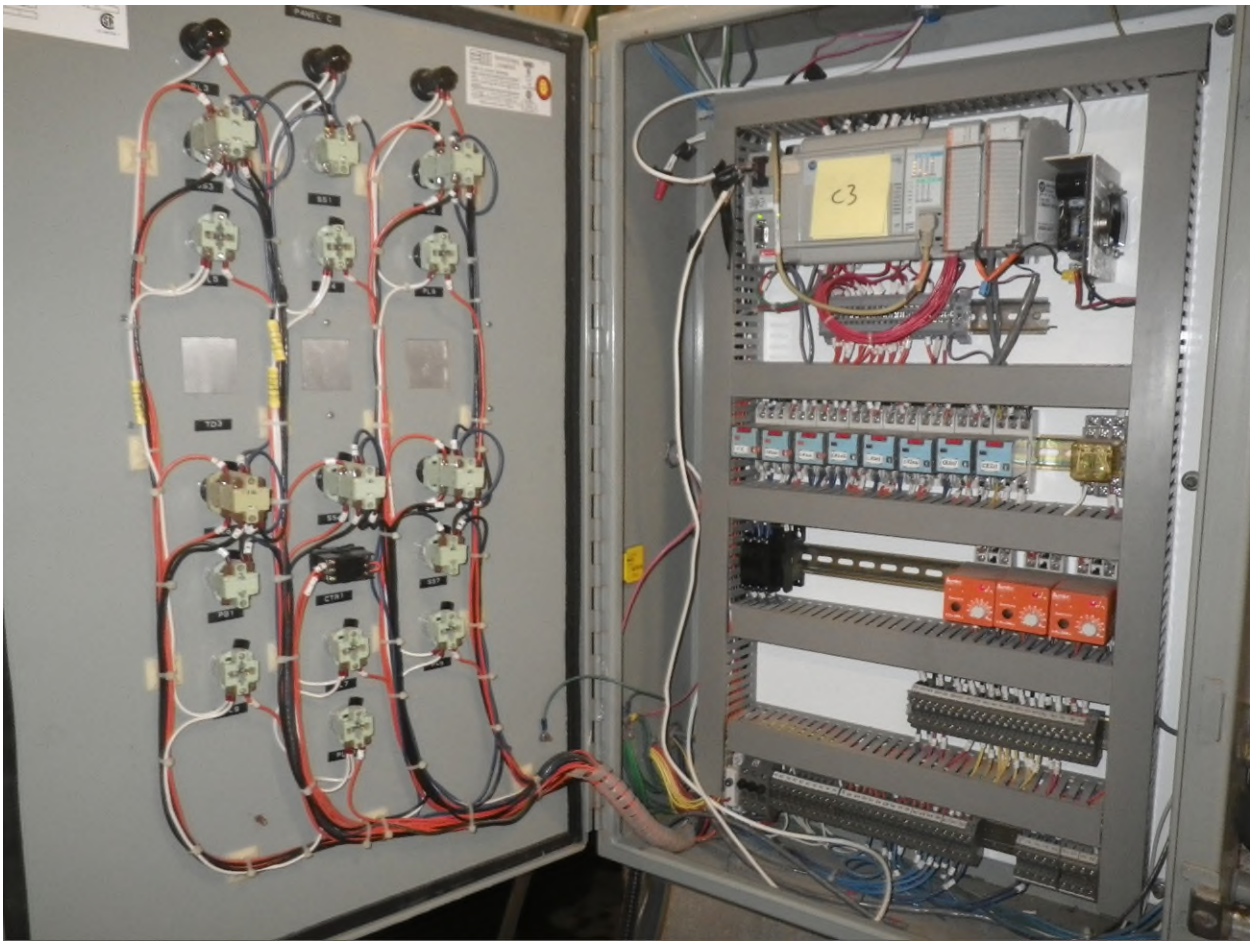

Figure 39 Filter C3

Figure 40 Filter C3

Figure 41 Filter D4

Figure 42 Filter D4

Figure 43 Filter D4

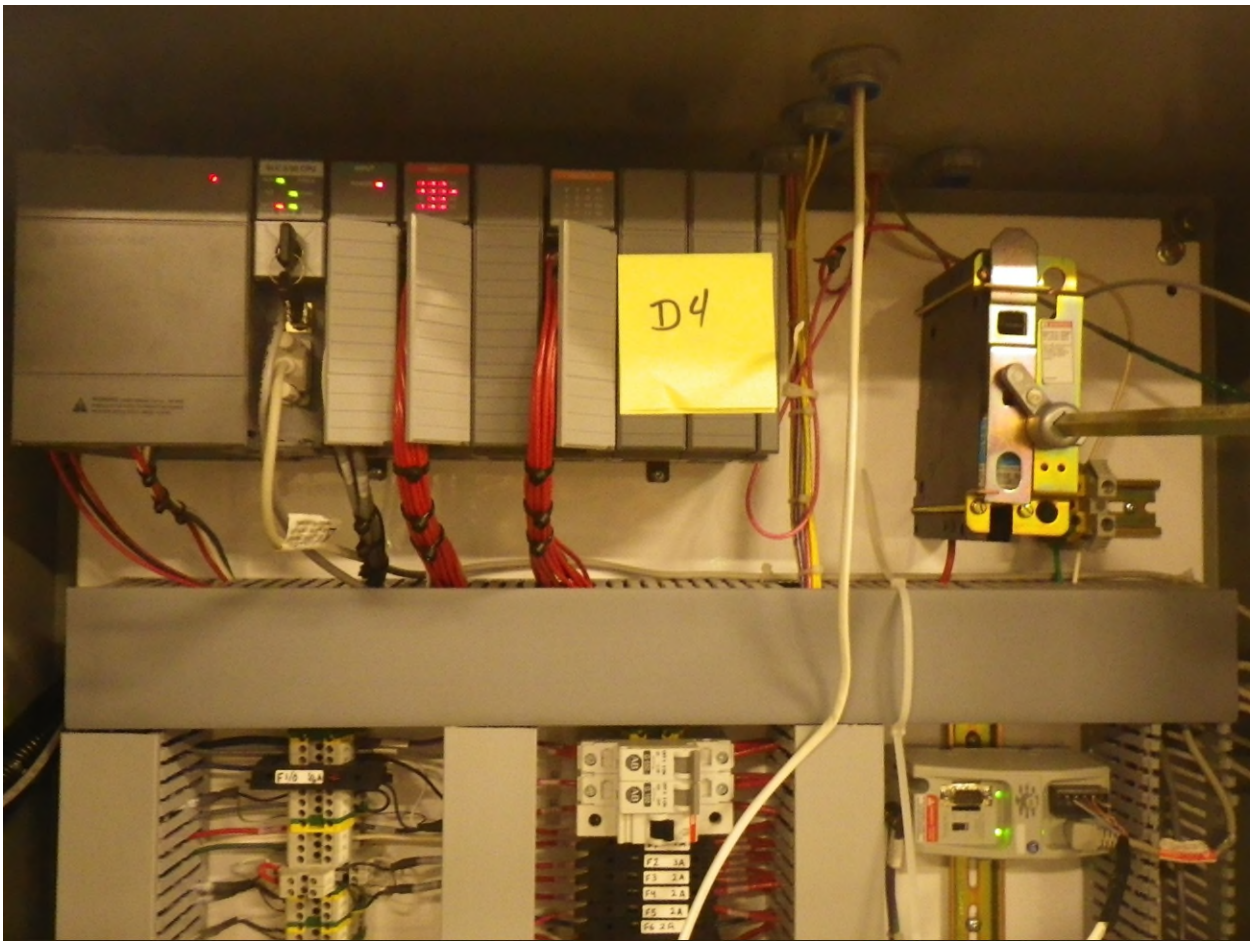

Figure 44 Filter D4

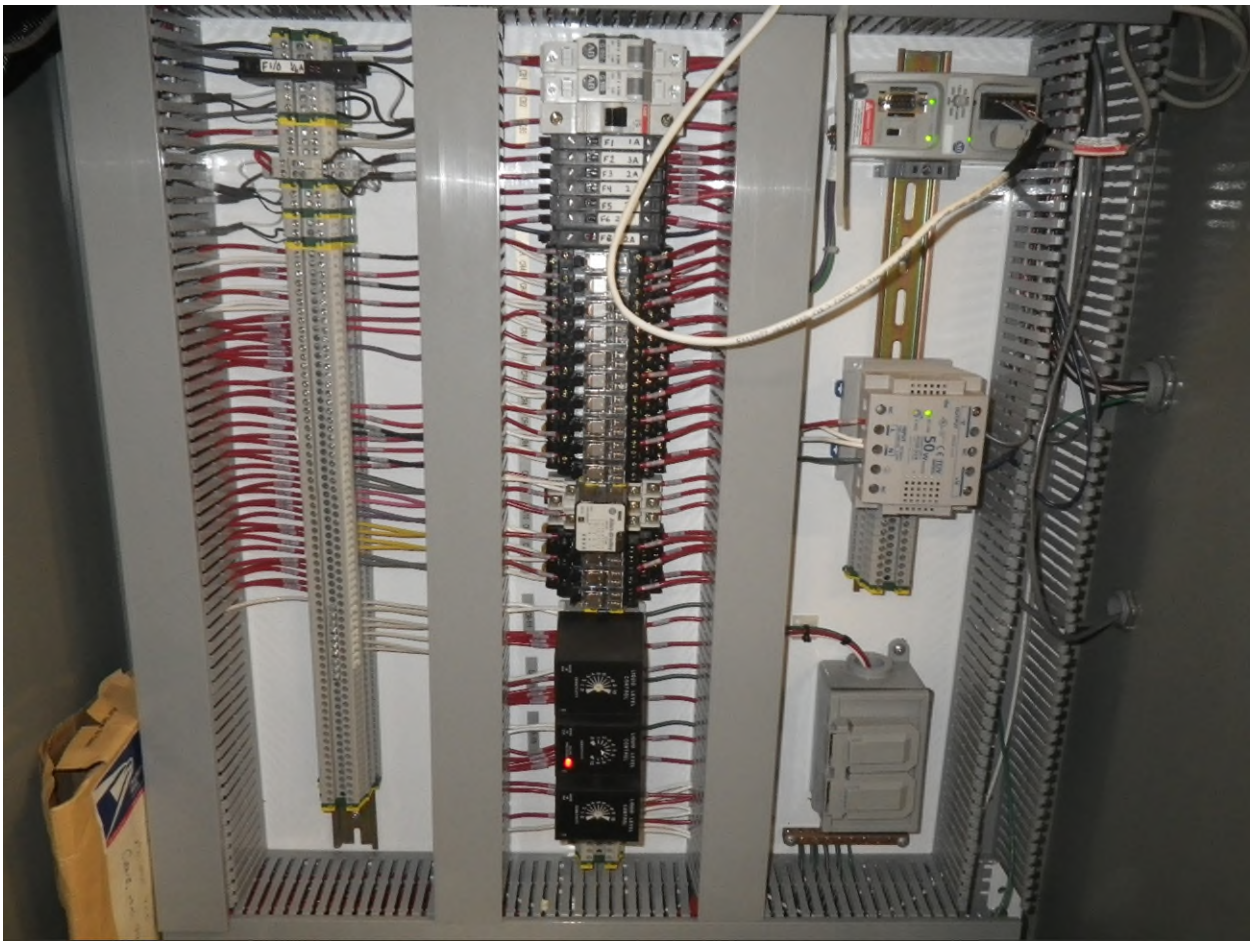

Figure 45 Filter D4

Figure 46 filter D4, plumbing

Figure 47 Chlorine Station, 4-20 MA

Figure 48 Chlorine pump

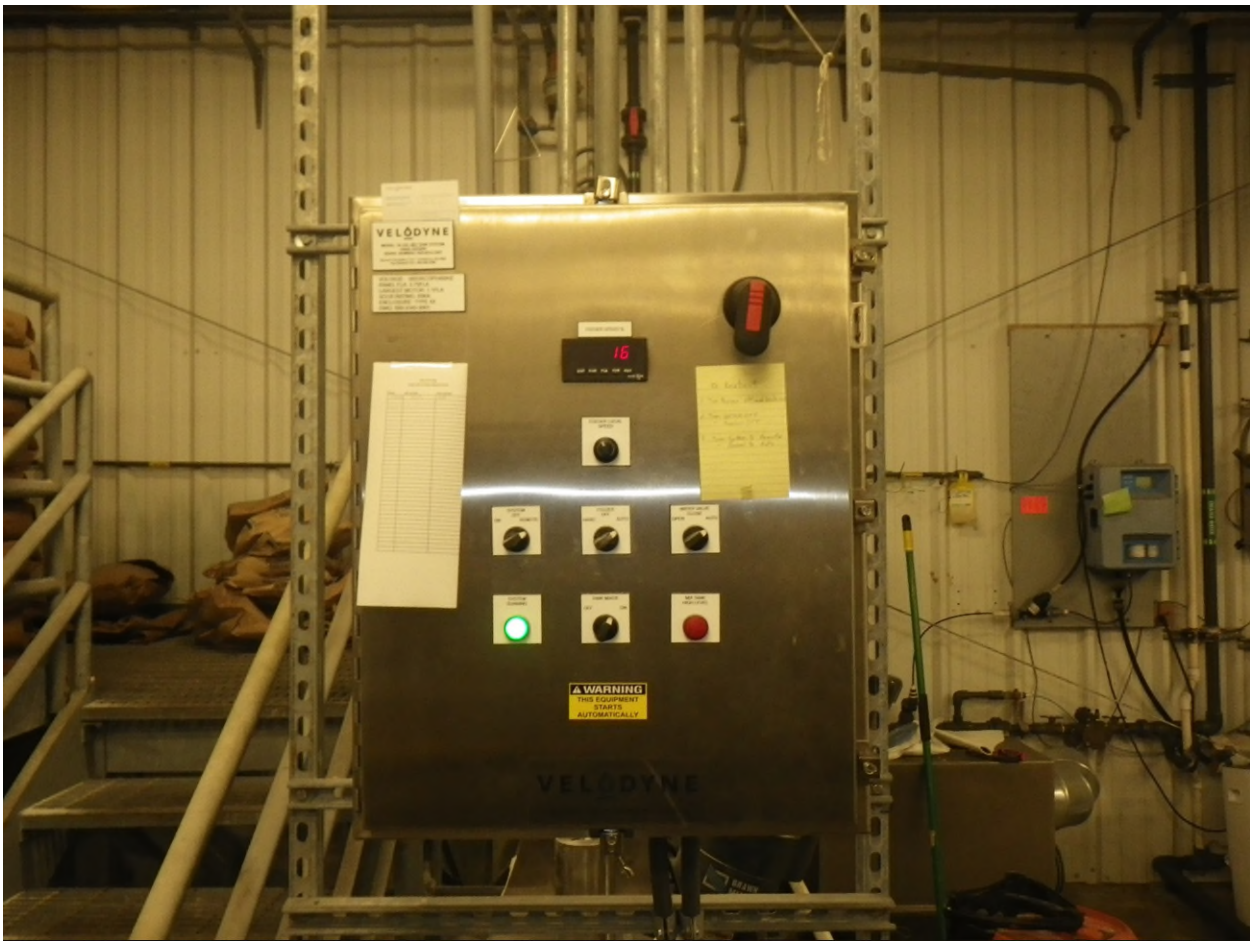

Figure 49 Soda Ash hopper

Figure 50 Soda Ash Hopper

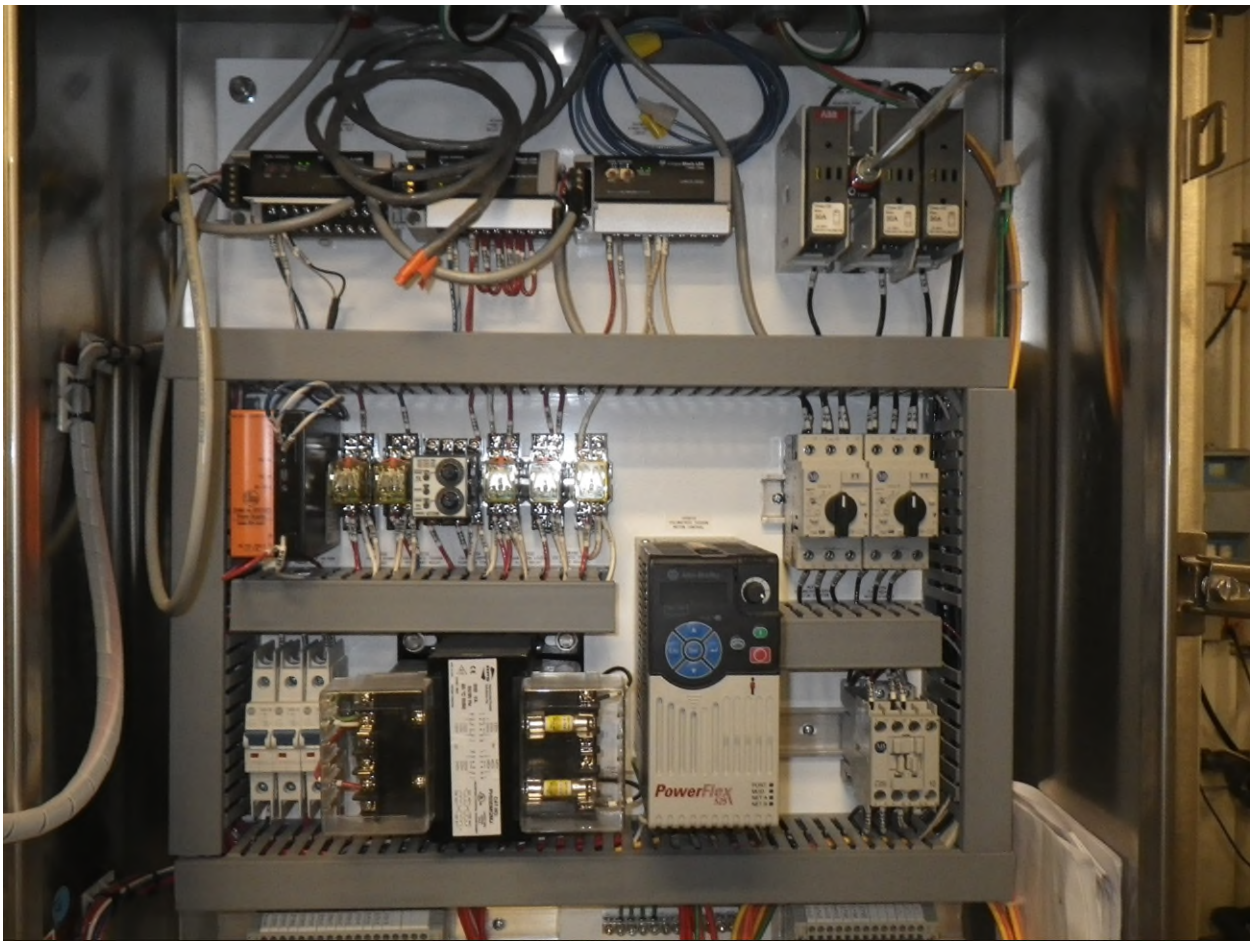

Figure 51 Soda Ash hopper

Figure 52 CL17

Figure 53 CL17

Figure 54 Clear well level

Figure 55 High Service pump panel

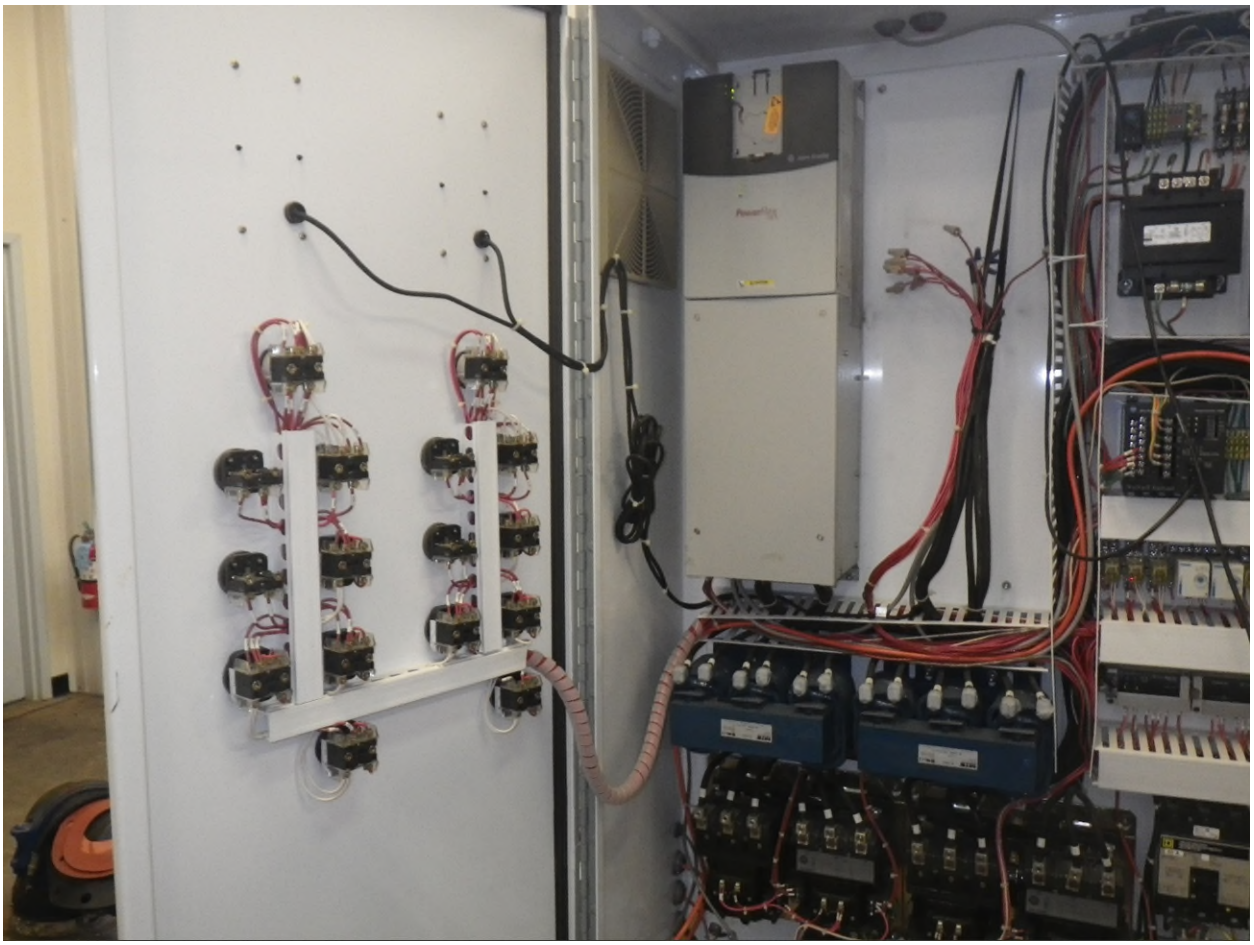

Figure 56 High service pump panel

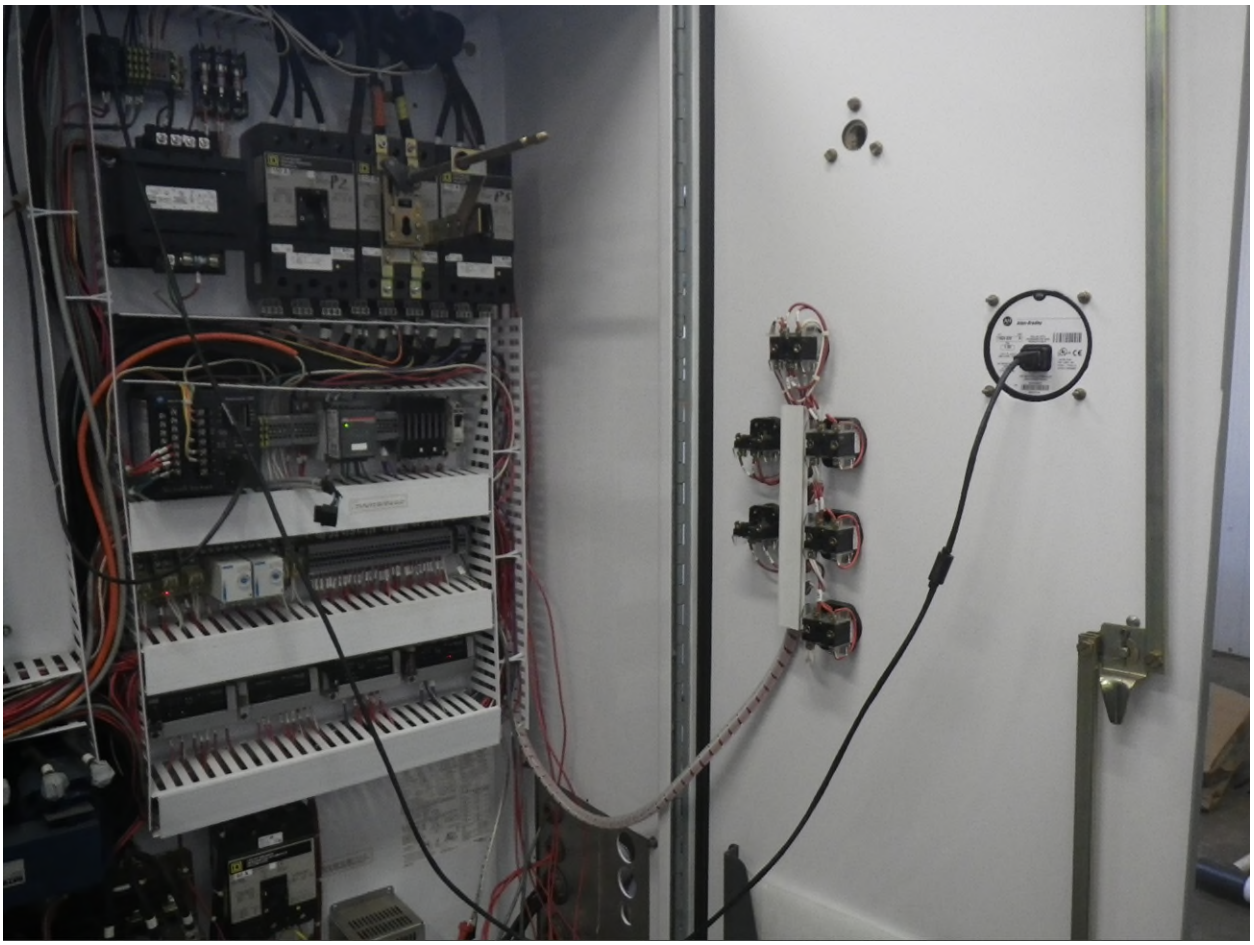

Figure 57 High Service pump panel

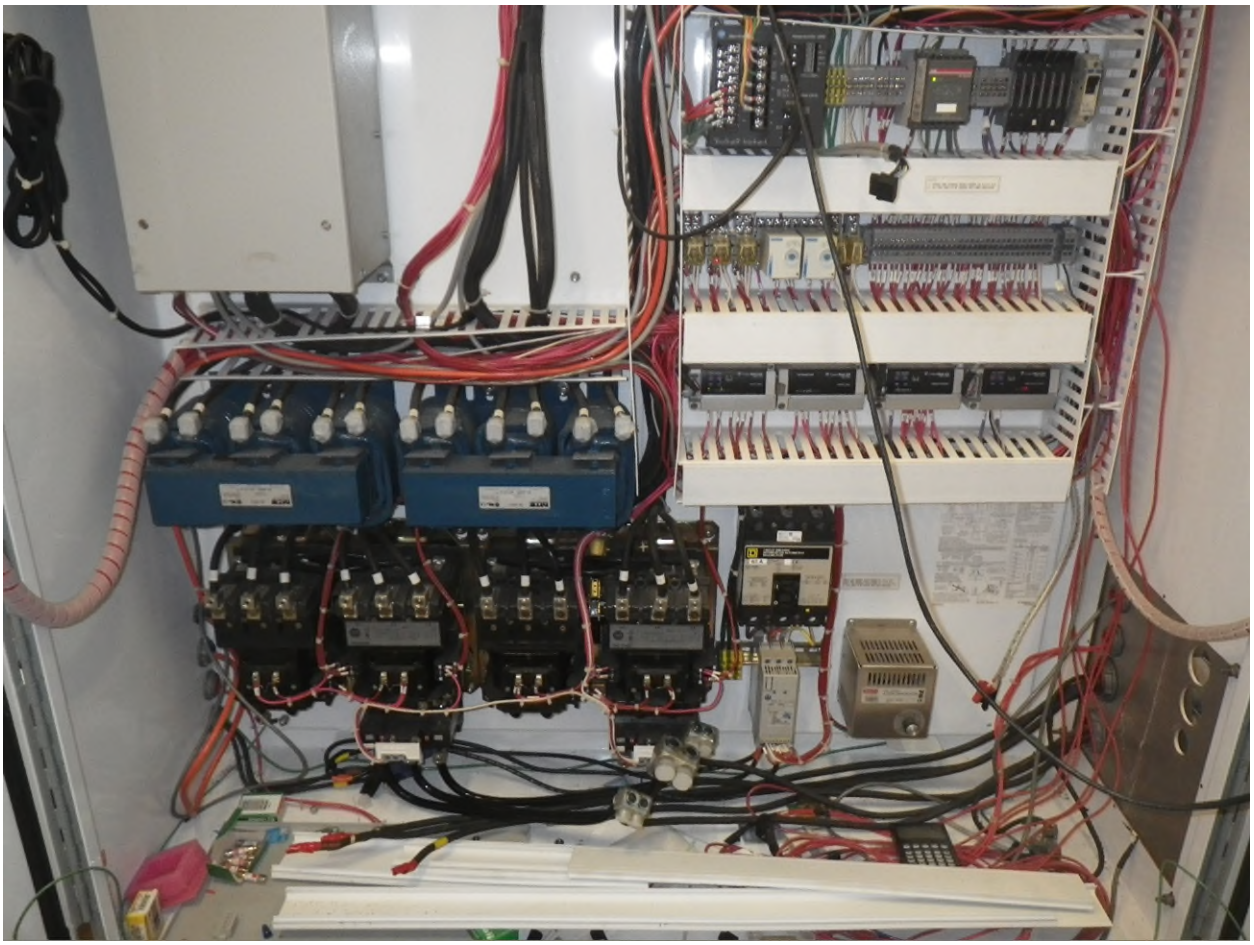

Figure 58 High Service pump panel

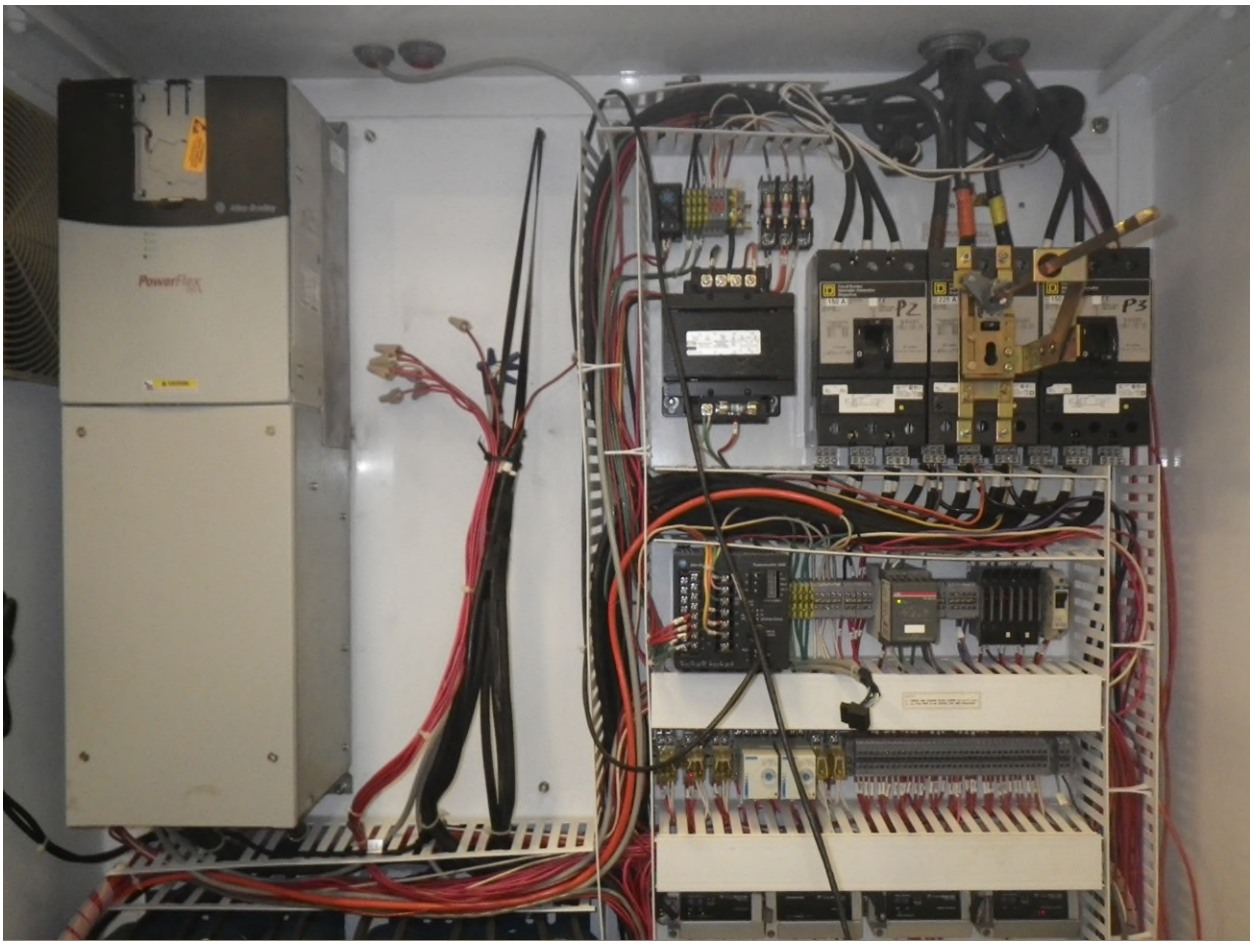

Figure 59 High Service pump panel

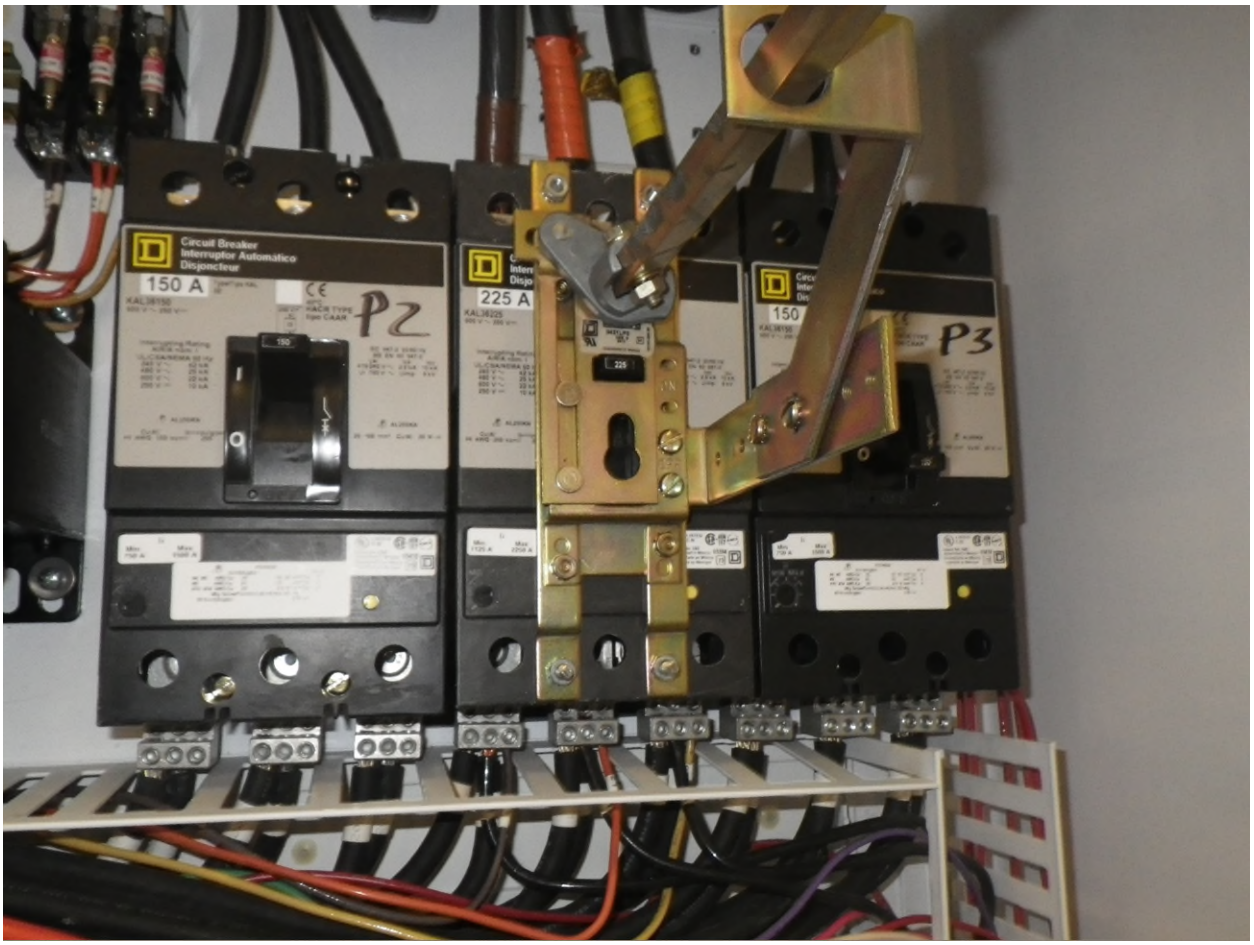

Figure 60 High service pump 480V

Figure 61 VFD

Figure 62 VFD

Figure 63 50 HP motors, both the same

Figure 64 VFD/ Motor stuff

Figure 65 50 HP Motor

Figure 66 50 HP Motor

Figure 67 50 HP Motor

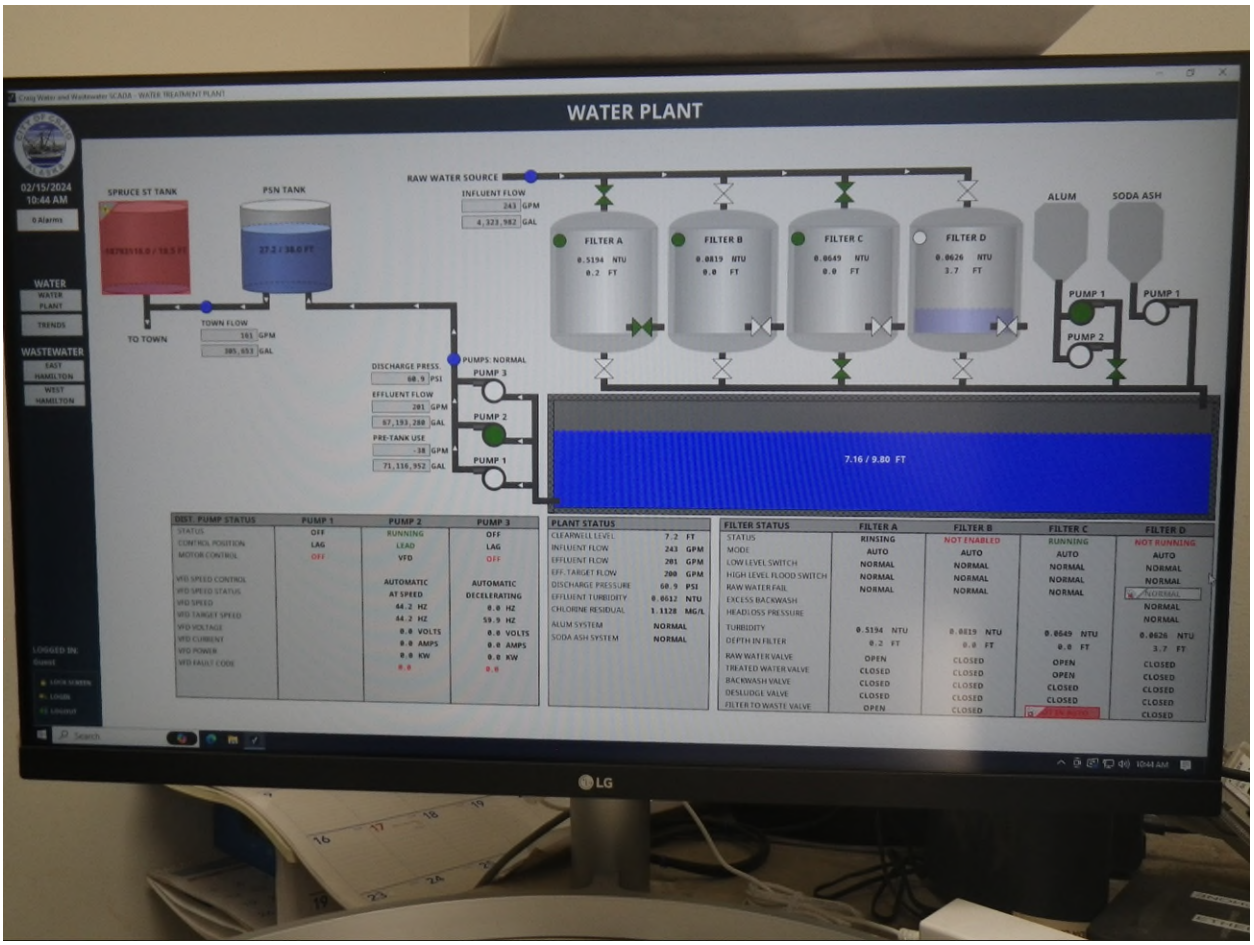

Figure 68 SCADA

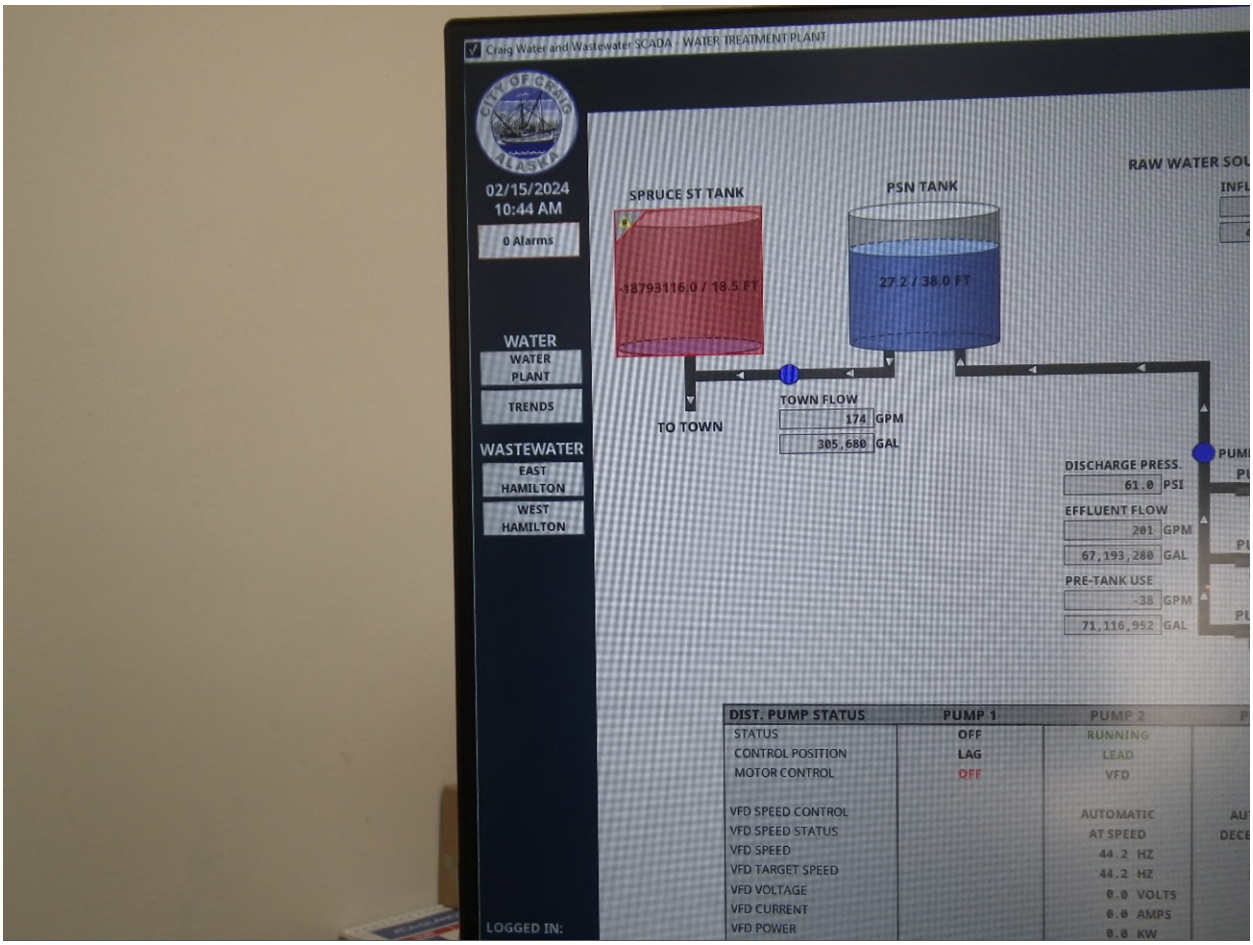

Figure 69 SCADA

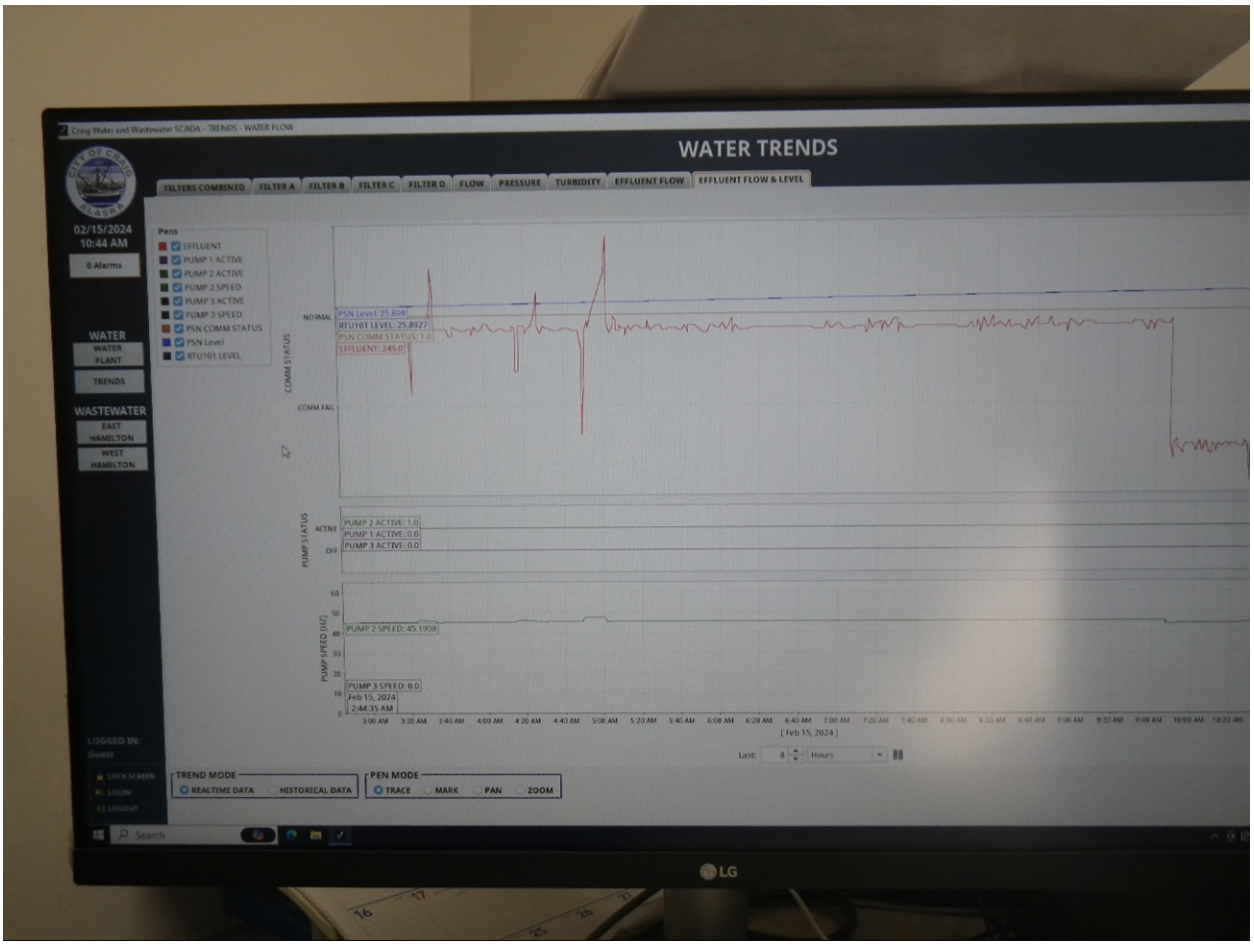

Figure 70 SCADA Trends

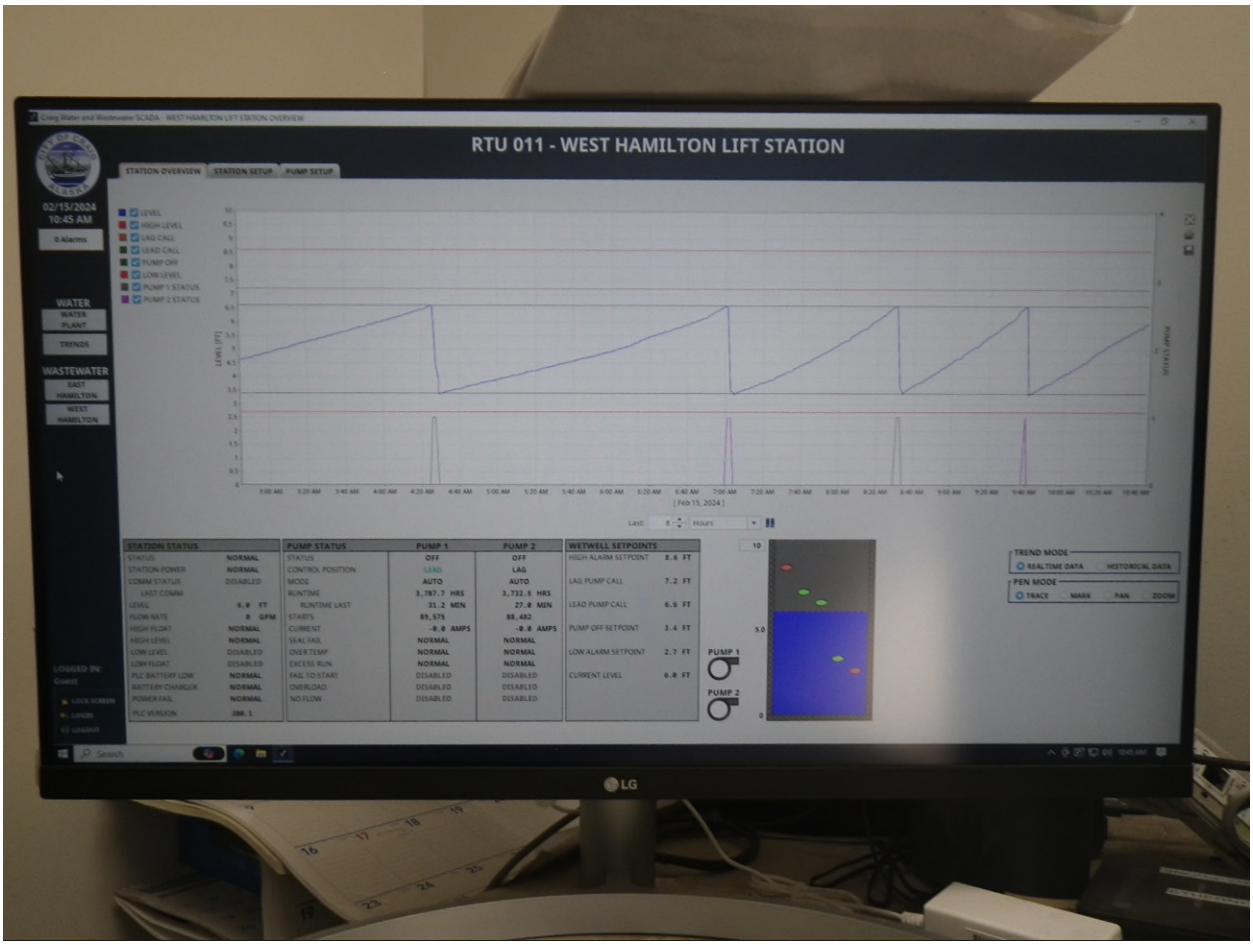

Figure 71 SCADA, West Ham

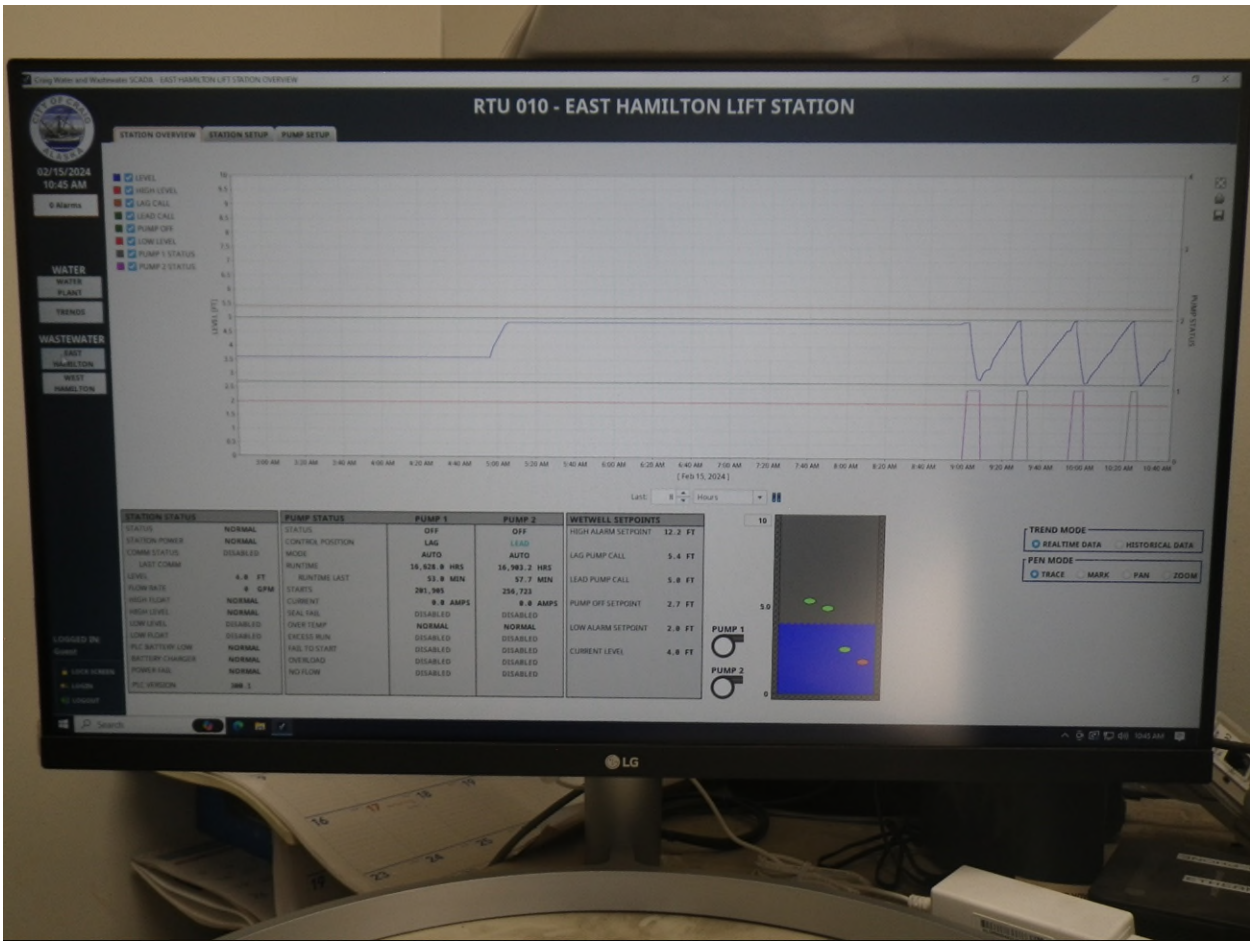

Figure 72 SCADA East Ham

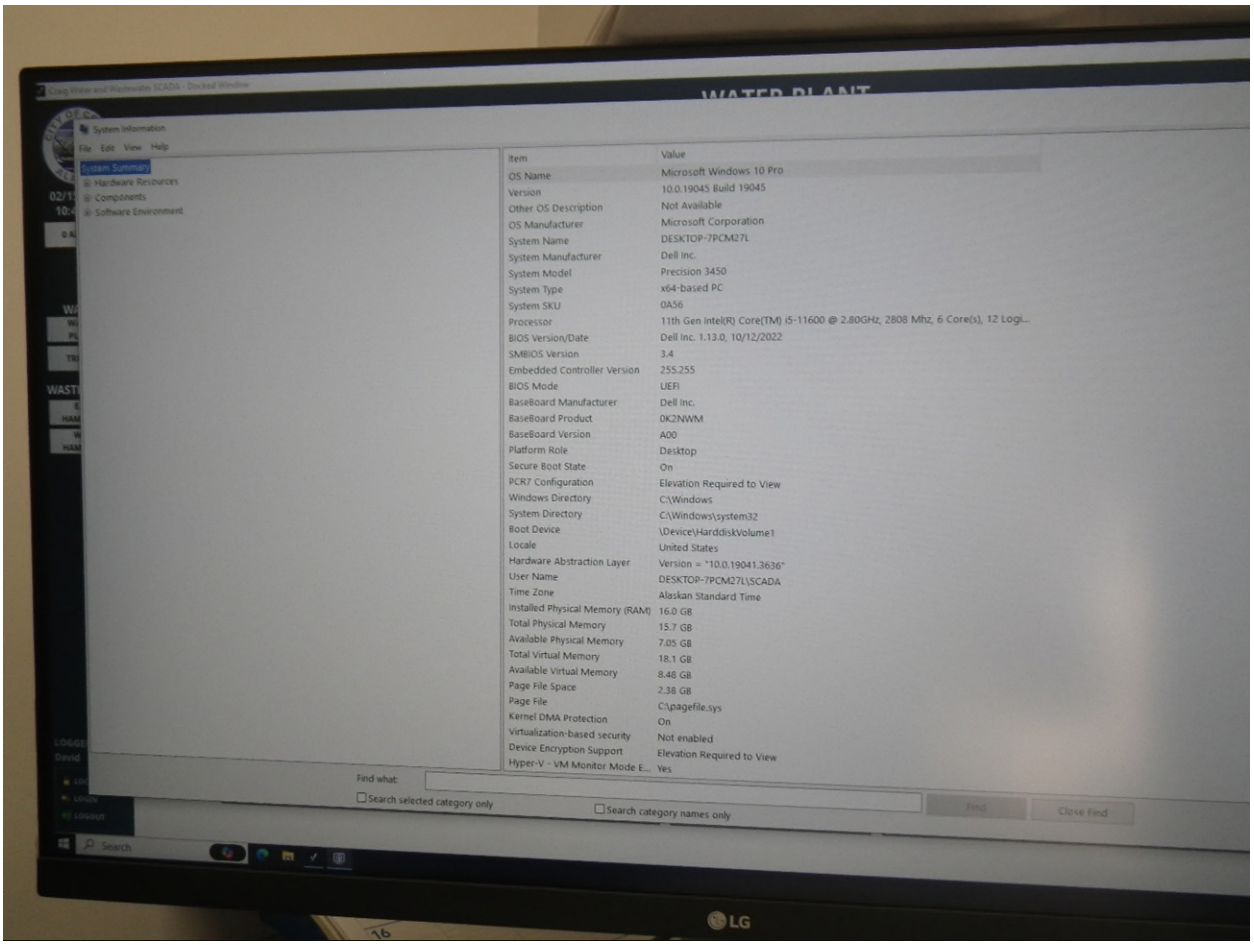

Figure 7368 Computer Specs

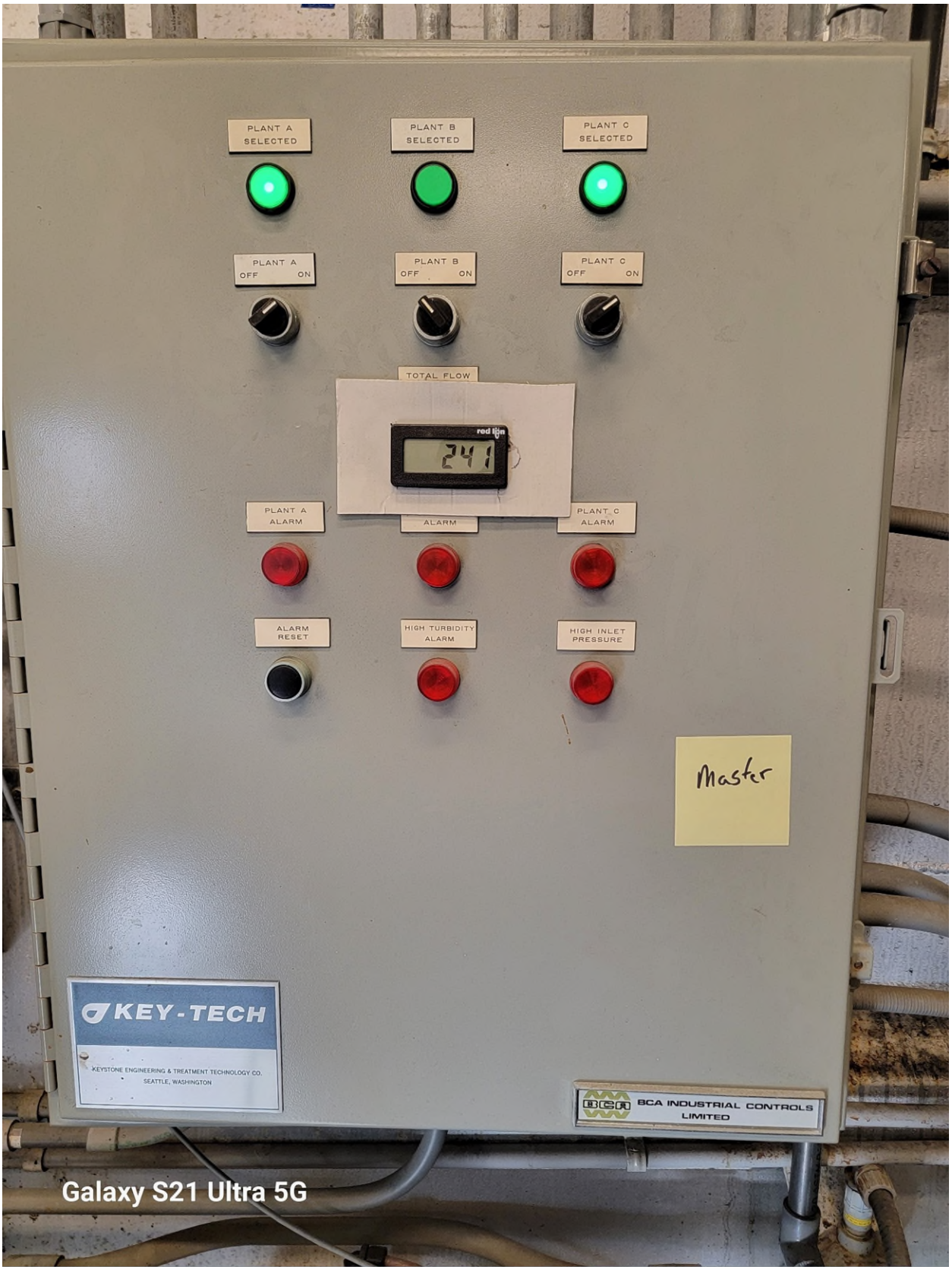

Figure 74 Master PLC

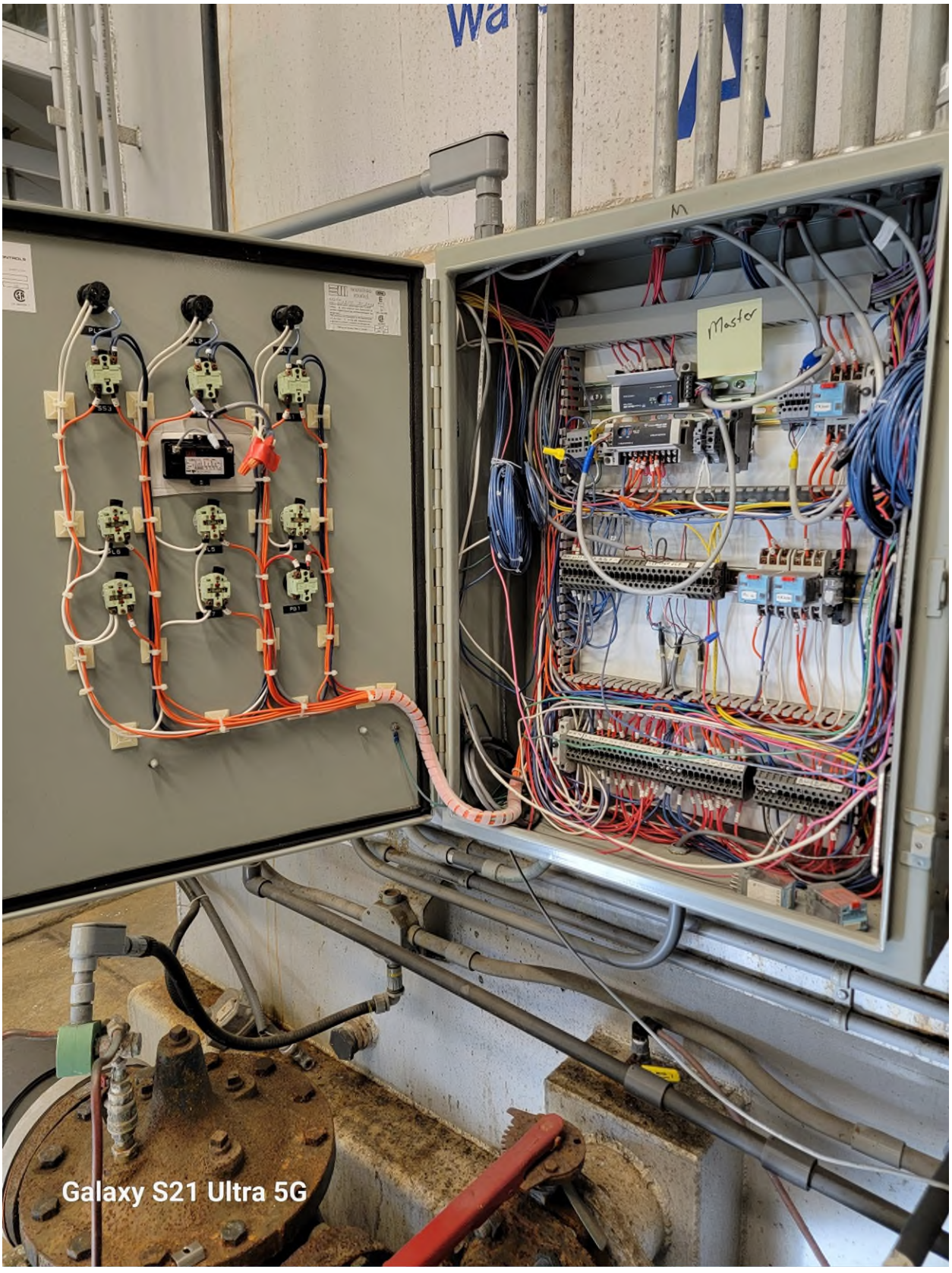

Figure 75 Master PLC

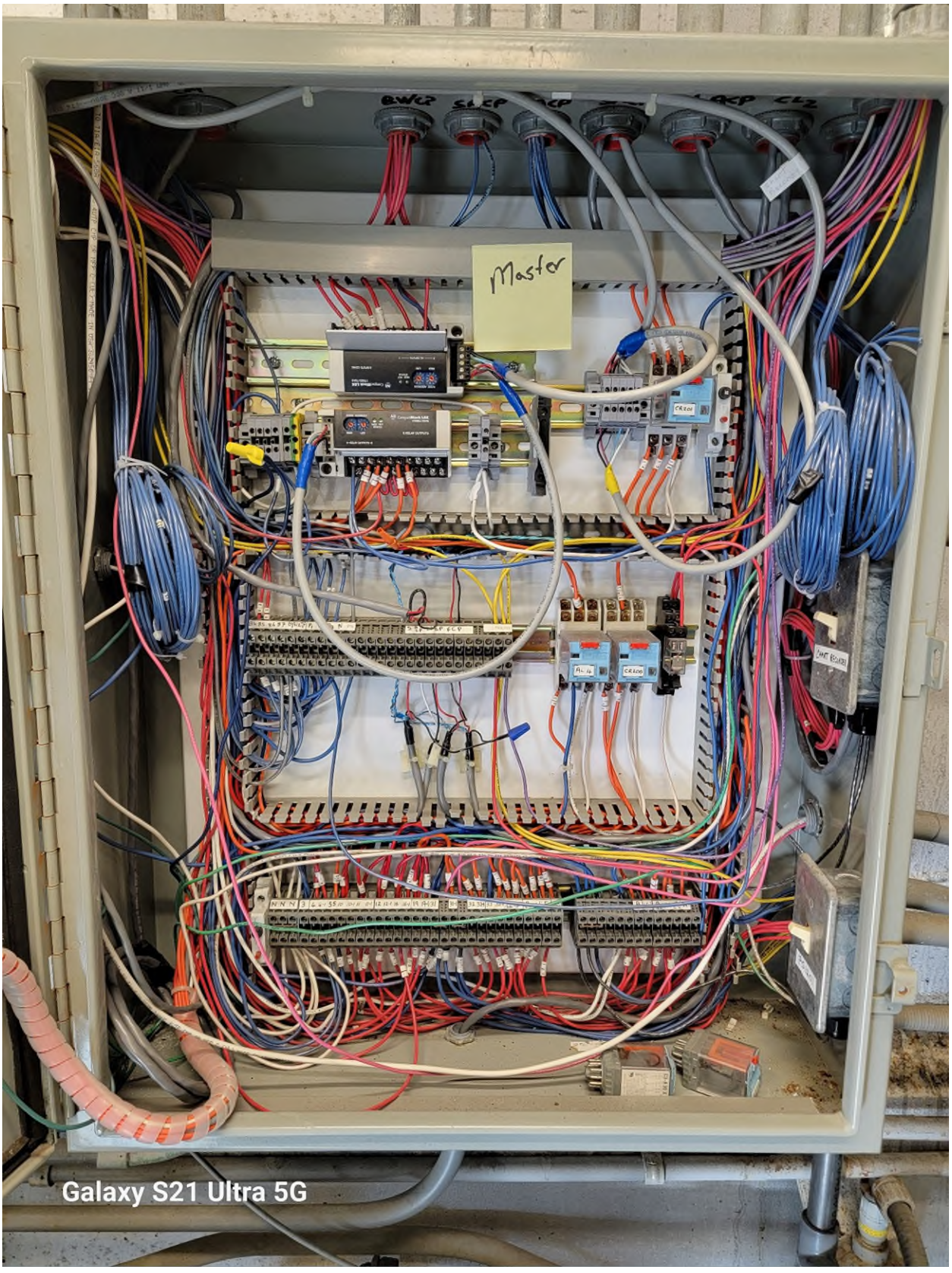

Figure 76 Master PLC

Figure 77 Backwash pump panel

Figure 78 Backwash panel

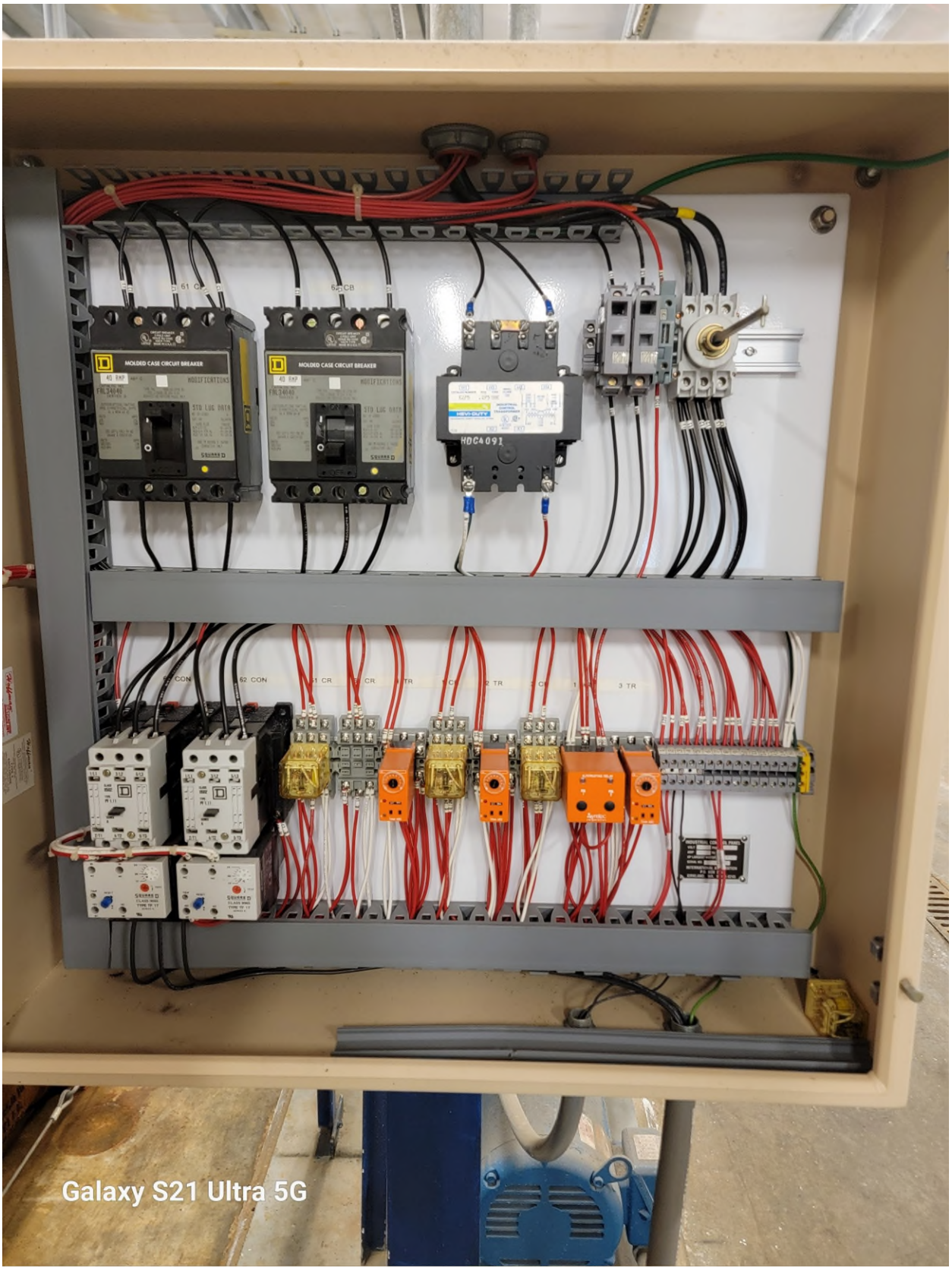

Figure 70 Backwash panel

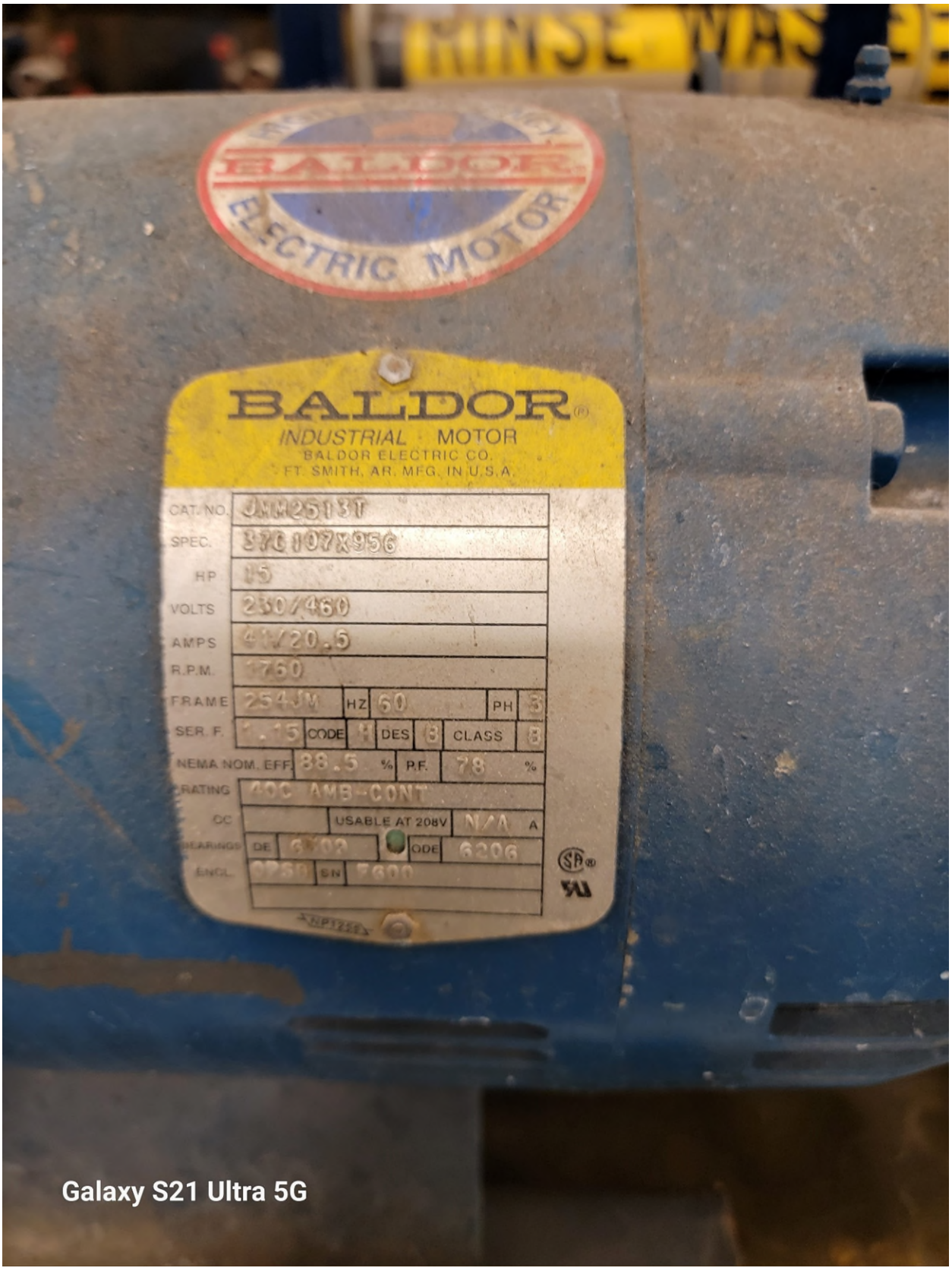

Figure 69 Backwash motor

All filters have their own 1720E Hach turbidimeter, and controller.

All filter have valve, and solenoids front and back controlled by the filter PLC to let water in and out to run the filter automatically, and switches to run in manual.

4-20 MA gos to the master PLC, I think?