



Polson Water Resource Recovery Facility

Construction Progress Report

(April 2018)

TO: Mark Shrives, City Manager
106 First Street East
City of Polson, MT 59860

CC: Polson City Council
Ashley Walker, W/S Superintendent

FROM: Kevin Johnson, P.E.
Project Manager – DOWL

DATE: May 7, 2018

This construction progress report includes work for the month of April 2018.

Headworks Building:

Work on the headworks building this month included near completion of the concrete grit chamber, installation of additional pumps and process mechanical equipment in the basement, installation of electrical equipment and beginning of the exterior metal panels, soffit and fascia. See Figure 1 and Figure 2.

SBR Tanks:

The east SBR tank has passed the required leak test. Minor leak repair on the west SBR is ongoing and it is expected this tank can be tested within the next week. The east side of the SBR was partially backfilled.

UV Building & Post Equalization Tank:

The remaining concrete work for the UV building was completed this month including the walls and interior floors. The structure is ready for the masonry walls. The precast concrete roof panels were set over the Post-EQ tanks and the miscellaneous hatches, ladders and appurtenances were installed. See Figures 3, 4 and 5.

Control Building:

This building is nearly complete on the interior with the walls completed, equipment installed and much of the HVAC and electrical well under way.

There is a problem with settlement under the upper floor slab of this building. The backfill material has saturated and caused the material to further consolidate a couple inches below this slab. Corrective measures will be needed to address the void under the floor and provide additional support for the blowers resting on this floor. Further investigation is underway to identify and minimize or eliminate the source of water under this basement area. Evaluation of options for mitigation of the settled backfill is under way.

Digesters:

The digester aeration and mixing piping in each of the digesters is complete. Efforts to cure the remaining leaks in the digesters has resumed. Work remaining on the digesters includes leak testing and then installation of the prefabricated covers for these tanks which are now on-site and will be installed in the next month.

Schedule

The critical path item is completion of the second SBR leak test to allow for backfill to proceed at the north and south ends of the SBR. Additional concrete structures will be constructed at each end to house additional process mechanical piping and equipment.

Overall Project Status Summary:

Contract Time: 532 Days to Substantial Completion of Treatment Facility

Days Expended: (374); (To April 27, 2018) (70%)

Original Contract Amount:	\$12,213,000
Change Order #1	\$29,087
Change Order #2	\$2,542
Change Order #3	\$25,004
Current Contract Amount:	\$12,269,633

Total To Date: \$8,209,903; (67%)



Figure 1 - Grit Pumps, Headworks Basement



Figure 2 - Upper Grit Chamber Walls



Figure 3 - UV Channels; Outlet Control Vault



Figure 4 - UV Building, Finished Floors



Figure5 - Roof Over Post EQ Tank, UV Channels



Figure 6 - UV Building, Post EQ, SBR