



LEMONS ENGINEERING CONSULTANTS, INC.

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## MONTHLY PROGRESS REPORT

### Ward Wastewater Treatment Facility Improvements Ward, Arkansas

November 21, 2018

Construction Period - October 17, 2018 to November 16, 2018

Haren Construction started placing 2-12" effluent discharge lines along with 10" air lines on October 17, 2018. On October 18 they completed placing all diffusers in the Aeromod tank. October 22, 2018 placement of the gates in the headworks was completed and they started placing 4" force main from old wastewater plant to the new tank. October 24, 2018 the contractor core drilled holes in the wall of the old wastewater plant for 2-12" effluent lines, finished placing 2-12" effluent lines to the old wastewater plant & started putting wastewater from old plant into the new plant with 4" force main. UV representative arrived for the UV startup on this day also. On October 26, 2018 Haren made 2-18" x 36" cuts in the wall of the old wastewater plant (post aeration), completed connecting 6" and 8" force mains to the existing force mains. All wastewater is now being run into the new Aeromod tank. October 29, 2018 they started placing outfall lines from old tank to head works. On October 31 they placed new headwall. On November 3, 2018 contractor finished outfall line to headworks (still have to core drill old wastewater wall (post aeration) to complete). Pipes at the wet well and vault were grouted on November 5, 2018. On November 6, 2018 Haren was forming outfall lines into head wall. The next day, November 7, they were pouring outfall lines into headworks, supports for air lines, and manhole lid for flume manhole, 2 yards of concrete used. On November 8, 2018 they removed 3 old clarifiers from the northern side of the old wastewater plant and started helping City employees remove sludge from northern end of the old clarifier tank. On November 13 they completed helping the City remove sludge from the northern end of the old wastewater plant and started cutting walls out on northern end of old wastewater plant. On November 16, 2018 contractor completed cutting wall out on northern end of old wastewater plant.

Twenty four (24) rain days were experienced during this construction period. The total number of rain days to date stands at sixty four (64).

At present, the project appears to be 99%, as per this request dated November 21, 2018.

490/508 days have elapsed (incl 24 rain days that occurred this pay pd) in the contract as of the date of this Progress Report. This reflects 97% completion by days compared to 99% completion by quantities.

Weather has been the only problem encountered during this construction period.

The anticipated next month's schedule consists of: Completion Project.

Report prepared by:

Tim Lemons, PE, President

November 21, 2018

Wastewater Plant monthly construction progress meeting.

Tim Lemon's from Lemons Engineering read the monthly progress report (see attached).

The letter of Substantial Completion was read by Mr. Lemons. The warranty period is from October 24, 2018 to October 23, 2019.

The next item is to prepare a punch list. The consensus was for Aero Mod to be present for the punch list.

There are some metering devices that need to be installed. The one that will be very important is the metering device that helps in the control of the UV system. The system is running at full force at this time.

There are some line items that Flora Pruett and Lemons Engineering need to address.