

RESOLUTION 20-115

**A RESOLUTION TO APPROVE PURCHASE AND
INSTALLATION OF BRUSH AERATORS TO ADD
DISSOLVED OXYGEN TO OXIDATION DITCHES**

WHEREAS, the Wastewater Treatment Department is in need of new equipment on oxidation ditches for the purpose of adding dissolved oxygen; and

WHEREAS, the aerators are a vital part of the Spring Hill wastewater plant and must be installed in order to meet requirements of the NPDES permit; and

WHEREAS, the Board of Mayor and Aldermen recognized the urgency in the installation of the aeration equipment by acknowledging same as an emergency expenditure in accordance with the City's Purchasing Manual in order to provide for the timely installation of the new equipment; and

WHEREAS, the City of Spring Hill, Board of Mayor and Alderman have allocated funds in the FY20-21 budget for this item.

NOW, THEREFORE, BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen authorizes the purchase and installation of the aerators in the amount of \$95,000.00.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, on the 17th day of August 2020.



Rick Graham, Mayor

ATTEST:



April Goad, City Recorder

LEGAL FORM APPROVED:



Patrick Carter, City Attorney

SUBJECT: Resolution 20-115 Approve
Purchase and Installation of Aeration Equipment
for Oxidation Ditch

DATE: August 1, 2020

ATTENTION: Board of Mayor and Aldermen

STAFF: Travis Massey, Wastewater Treatment
Plant Superintendent



Background:

The Wastewater plant has been running just one oxidation ditch for eight years and it is overloaded with solids. This is causing issues in complying with permit limits on ammonia and total nitrogen. The oxidation ditch needs more dissolved oxygen and Ovivo indicated the oxidation ditch needs 1,902 lbs./ D.O. per day in order to comply with permit limits. The recommended aeration units can produce 2,100 lbs./ D.O. per day which will bring the plant back within permit limits and back to the standard water quality that that we have produced for many years.

After ordering the brush aerators and having electrical and crane service available for the installation, assembly which includes installation and start up will be required bring the aeration equipment on line. The installation will also require the services of an electrician to hook up equipment once installed. The Board budgeted \$100,000.00 for this urgent repair and the actual installation cost will be \$95,000.00. This is a budgeted expense in 41052200-936.

Staff Recommendation:

Staff recommends approval of Resolution 20-115 to authorize the purchase and installation of aeration equipment for the oxidation ditch at a cost of \$95,000. The installation of the aeration equipment is an urgent need in order to bring the plant back within permit limits.