

# EBER PUBLIC UTILITY DISTRICT REPORT TO BOARD OF DIRECTORS

**MEETING DATE:** July 19, 2018

**FROM:** Laura Fischer, General Manager

**SUBJECT:** Authorize the Repair of the STM Aerators at the Wastewater Treatment Plant.

**ISSUE:**

Shall the Board of Directors authorize the repairs of the South side STM Aerators at the Wastewater Treatment Plant?

**GENERAL MANAGER'S RECOMMENDATION:**

It is recommended that the Board of Directors authorize the repairs of the South side STM Aerators at the Wastewater Treatment Plant.

**FISCAL IMPACT:**

Amount needed to complete project is estimated at: \$11,320.45. This cost is included in the Wastewater Fund Operating Budget. No budget adjustment is needed.

**BACKGROUND:**

At the April 19, 2018 Board meeting, the Board authorized the repairs to the North side of the STM Aerators at the Wastewater Treatment Plant. The cost estimate to repair the North side was \$42,167. Staff changed the project and hired a welder to make the repairs to existing parts instead of ordering new parts. This resulted in a complete repair of the North side of the STM Aerators at 50% of the total estimated cost. We were able to make the repairs and complete the project for a total of \$21,046.00.

Staff has prepared the cost estimate for the South side of the STM Aerators, which totals \$32,441.45. The table below provides the cost details.

WASTEWATER AERATORS REPAIR PROJECT - SOUTH SIDE	
AERATORS SOUTH SIDE REPAIR (Woolfolk)	10,675.00
SOUTH SIDE BEARINGS	3,974.40
END SHAFT	6,194.88
Estimated Shipping:	500.00
LABOR (Welding) & CRANE RENTAL (Woolfolk)	9,552.34
CONTINGENCY - 5%	1,544.83
<b>ESTIMATED TOTAL</b>	<b>32,441.45</b>

**DISCUSSION:**

HPUD staff worked with our contractor to ensure that the North side of the STM Aerators were repaired and it was placed back in service in May 2018. Before and after pictures of the worn plates.



Before on the left and After repairs on the right.



Staff then began cleaning out the South side of The STM Aerators using the vactor truck.



They began working with the welding company to take apart the South side of the STM Aerators. They found that two of the bearings and end shafts needed to be replaced. These parts are being ordered and included in the cost estimate. The STM Aerators are a proprietary design and as such all parts and supplies must be purchased from the manufacturer. Once they arrive, staff will work with the welder and will install the new bearings and end shafts. This will require the rental of a crane to get the heavy parts down into the aerator and then lift in place.

**CONCLUSION:**

As the repairs to the STM Aerators are required to continue to meet the State Water Board NPDES permit requirements, and as there are funds available in the wastewater fund operating budget, staff is recommending approval of the repairs to the wastewater treatment plant STM Aerators system in the amount of \$32,441.45.



**ALTERNATIVES:**

- 1) Authorize the repairs to the Wastewater Treatment Plant STM Aerotors, but provide alternative direction on funding options for the project.
- 2) Provide alternative direction to staff.

Respectfully Submitted,

Laura Fischer, General Manager