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# **AGENDA**

**Fort Smith Board of Directors**

## **STUDY SESSION**

**June 8, 2021 ~ 6:00 p.m.**

**Massard Water Reclamation Facility**

**1609 9<sup>th</sup> Street**

**Barling, Arkansas**

***THIS MEETING IS BEING TELECAST LIVE AT THE FOLLOWING LINK:***

<https://video.ibm.com/channel/XqbsvFPFApS>

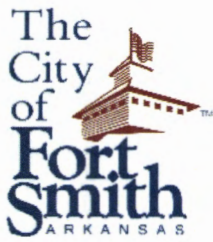
### **CALL TO ORDER**

1. Presentation of Massard Water Reclamation Facility Study ~ *Walking tour included ~ (Utility)*
2. Review preliminary agenda for the June 15, 2021 regular meeting


### **ADJOURN**



SS1



UTILITY DEPARTMENT  
INTEROFFICE MEMORANDUM

**TO:** Carl E. Geffken, City Administrator  
**FROM:** Lance A. McAvoy, Utility Director   
**SUBJECT:** Study Session: Massard Water Reclamation Facility Study Presentation  
**DATE:** June 2, 2021  
**CC:** Jeff Dingman, Deputy City Administrator

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The Massard Water Reclamation Facility (formerly the Massard Wastewater Treatment Plant) began construction 1966. Since that time very little has been done to upgrade or expand the treatment facilities or capacity. Attached is a brief history of the Facility and upgrade/expansions that have occurred during its lifespan.

In 2018 Garver was hired to conduct an evaluation of the Facility and produce a master plan for the eventual upgrade and/or replacement of components of the Facility. The project was to be completed in 2020, however, due to Covid-19 the final report on the finding were pushed to 2021.

On Tuesday, June 8, 2021, at the Board of Directors' Study Session, Garver and Utility Staff will present the findings of the study and proposed next steps. To provide a better understanding of the overall issues facing the Facility, the Study Session will be held at Massard Facility at 1609 9<sup>th</sup> Street, Barling Arkansas.

Directions from Fort Smith to the plant are also attached.

Please contact me should you or any of the Board have any questions.

Attachments: <sup>1</sup>Massard Water Reclamation Facility Brief History  
<sup>2</sup>Directions to the Massard Water Reclamation Facility

## Massard Water Reclamation Facility

The Massard Water Reclamation Facility (WRF) was constructed in 1966. The original WRF consisted of an influent pump station, two primary clarifiers which reduce the content of solids and pollutants embedded in those solids by allowing them to either float to the top or settle to the bottom of the tank, two trickling filters consisting of a fixed bed of rocks over which wastewater flows downward and pollutants are then removed by a layer of microbial slime growing on the rocks, two secondary clarifiers which remove solids consisting of biological growth, and chlorine disinfection which destroys and reduces disease causing microorganisms. At that time the discharge from the WRF flowed directly into Massard Creek, which is how the WRF was named.

The WRF received its first upgrade twenty years later. The WRF operations building was constructed in 1986. This building held a small control room, small process control laboratory, locker room, break room, and offices. It also contained the solids handling equipment. During this upgrade, a third secondary clarifier was added while the original two secondary clarifiers underwent a complete rehabilitation. The last upgrade in 1986 moved the discharge point from Massard Creek to the Arkansas River.

The fourth secondary clarifier was added in 1998. A new biosolids handling building which is used to process waste solids from the treatment process and prepare them for disposal at the landfill was constructed, and some rudimentary odor control was added to WRF.

The Massard WRF saw its last major upgrade in 2001. The influent pump station was upgraded with new pumps and a grit removal chamber was added. Two secondary clarifiers were replaced with larger clarifiers and one final clarifier was closed for possible future use. A post solids contact aeration basin and blower building were added to treat and remove ammonia and nitrogen from the waste stream. As a safety measure the WRF was converted from chlorine disinfection to UV disinfection and a UV Control building was constructed. Lastly the main WRF operations building was remodeled.



Massard WRF – October 2013 (Google Earth)

## Driving Directions to Massard Water Reclamation Facility

- 1) Drive East on Rogers Ave (Hwy 22) from Fort Smith to Barling
- 2) Turn Left onto “H” Street (by the Phillips 66 gas station)
- 3) Turn Left onto North 9<sup>th</sup> Street
- 4) Continue on North 9<sup>th</sup> Street and the Facility will be on the Left Hand Side with a sign “Massard Wastewater Treatment Plant”

