

City of Jackson Water Crisis 2022
Incident Command Brief
September 5, 2022

INCIDENT OVERVIEW

The City of Jackson Surface Water System was impacted by recent flooding. Both the O.B. Curtis and J.H. Fewell water treatment plants had reduced water output that created pressure problems in the system. The City lacked sufficient pressures in some areas of the City to sustain adequate access to flush toilets and maintain optimal disinfection for drinking water. Both O.B. Curtis and J.H. Fewell water treatment plants lack sufficient Class A Operators and maintenance staff.

TREATMENT FACILITY STATUS

- **O.B. Curtis**
 - Conventional Treatment Plant:
 - Authorized for **25** million gallons
 - Capacity of **18.7** million gallons
 - Producing **15.4** million gallons
 - Membrane Treatment Plant:
 - Authorized for **25** million gallons
 - Producing **5.7** million gallons
- **J.H. Fewell**
 - Authorized for **20** million gallons
 - Potential flex to **30** million gallons
 - Producing **21.1** million gallons
- **Total:**
 - City of Jackson: **42.2** million gallons
- **Tank/Well Status**
 - As of 1800 HRS 9/5/2022, two (2) city tanks are holding water at low levels. Fewell is operating at 80.1 PSI and O.B. Curtis is operating at 83.8 PSI. According to the city engineer, the bare minimum city PSI should be operating at 65PSI. The Chastain tank will be the first tank to fill of the

tanks supplied by O.B. Curtis and Riverside tank will be the first fill of tanks supplied by J.H. Fewell.

- **Surface Water Tank Levels** (these levels are for comparison purposes only. SCADA are located at different elevations)
 - Chastain: 27.39 ft.
 - Elaine: 14.51 ft.
 - Forest: 28.19 ft.
 - Livingston: 21.36 ft.
 - Lynch: 23.55 ft.
 - Magnolia: 33.01 ft.
 - Northwest: 16.32 ft.
 - Riverside: 30.29 ft.
 - Suncrest: 5.17 ft.
 - Presidential Hills: 32.10 ft.
 - Fortification/Mills Street: 32.64 ft.

- **Well System Tank Levels**
 - Cedar Hills: 27.16 ft.
 - Hwy. 18: 46.11 ft.
 - Spring Ridge: 50.96 ft.

SCHOOLS CLOSURES/DELAYS

- Hinds County
 - Jackson Public Schools – Opening tomorrow (09/06/2022)

CURRENT AND PLANNED OBJECTIVES

- Establish sludge process
- Establish process control for water treatment
- High Service pump assessment
- Valve repair (Membrane)
- Develop a distribution system monitoring plan

PERSONNEL DEPLOYED TO O.B. CURTIS

- MEMA: **8**
- MSDH: **8**
- CITY OF JACKSON: **8** in addition to O.B. Curtis personnel
- EPA: **3**
- USACE: **3**
- FEMA: **1**

TASKS COMPLETED

FLORIDA RURAL WATER

- Demobilized

GEORGIA RURAL WATER

- Request PPE for Switch gear fix in order to continue work on high service pump
- Discovered broken sedimentary basin drain line
 - Dig up 12" line tomorrow
- 12" plug onsite to allow basin 3 to drain
- Working with instrument tech and PLC team onsite to ensure SCADA readouts match grab samples
- Working valves at membrane plant to get flow up to 25 MGD
- Continued work in the membrane plant
 - Corrected valve issues
 - Installed air separators

MISSISSIPPI RURAL WATER

- Team from Winona used camera to assess restricted line
 - Break found in the sludge transmission line
- Support GA with membrane plant
- Supporting 4160 circuit breaker switchover

LOUISIANA DEPARTMENT OF HEALTH

- Water quality monitoring

- Assessed the sludge system
 - Assessment revealed the need to implement auto-switchover for chlorine
- Reworked the power on pH meter
 - One (1) pH meter in lab reading high
- Demobilized

MISSISSIPPI DEPARTMENT OF HEALTH

- Contractor review for ammonia feed boring
 - Quote expected tomorrow
- Planning for investigative monitoring
- Supporting analytics

CORNERSTONE

- Reviewing sludge line break work to determine impact to ongoing projects

MUTUAL AID

- Requested five (5) license electricians
- Requested ten (10) mechanics
- Requested twelve (12) General Maintenance Workers
- Requested eight (8) instrumental technicians
- Requested six (6) "Class A" Surface Water and Membrane Operators

DIRECT FEDERAL ASSISTANCE

EPA

- Distribution sampling plan
- Planning for investigative sampling
- Reviewed chemical feeds

USACE

- Continuing to conduct resiliency assessments at O.B. Curtis
- Reviewing disinfectant dosing procedures

OTHER ACTIONS

- Chlorine feed was temporarily stopped due to an empty cylinder and lack of automatic switchover
 - Chlorine feed was lost to system for approximately 2 hours
- MSDH toured new USEPA arrivals around O.B. Curtis