

# BLACK WARRIOR/TOMBIGBEE RIVER: DEMOPOLIS LOCK – UPPER MITER SILL FAILURE – 3 APRIL 2024

3 April 2024 condition update:

Last week, the District Fleet finished assembling the 3 main forms on barge SAM-1601.

Work has been completed on the dowels and anchors to tie the new concrete monoliths into the existing structure.

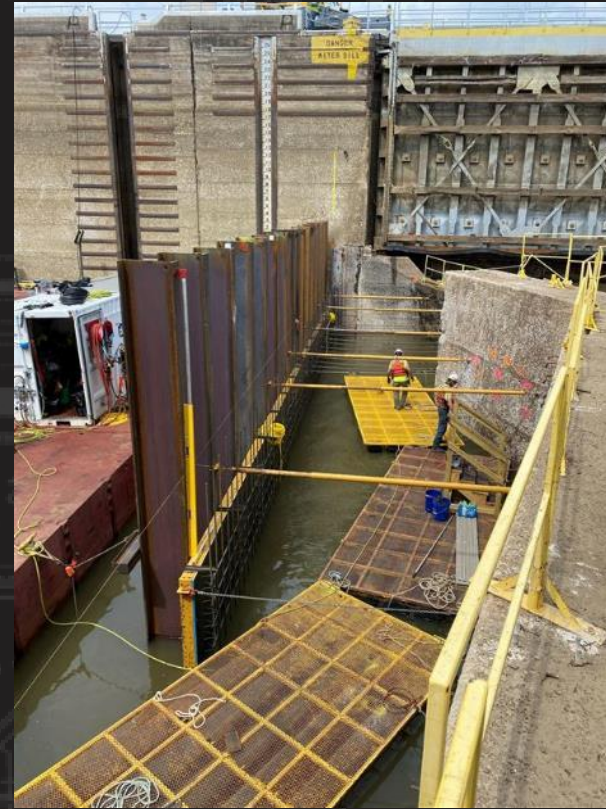
The river side concrete form has been installed into the chamber and secured in place. The stainless-steel bulkhead that separates the river monolith from the center monolith has also been installed. Work is underway to install the center and landside concrete formwork and the separating stainless-steel bulkhead.

Major concrete mix test started on 3 April to verify design calculations, placement testing and plant delivery process. This test pour will be under observation as it cures and tested to validate performance requirements.

Concrete placement expected to start 18 April. Anticipated lock return to service on 30 May.



Installing Riverside Formwork



Attaching Dowels to Formwork



Installed Riverside Formwork



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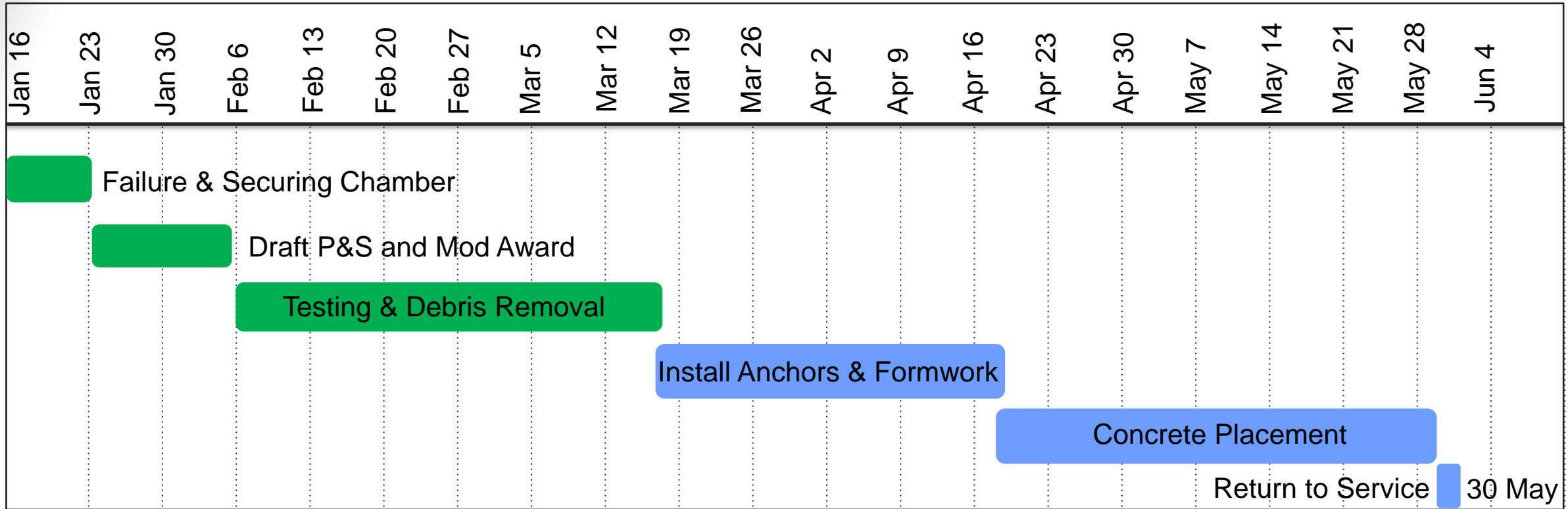


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# SCHEDULE & COSTS

COMPLETED

SCHEDULED



- Expected return to service by 30 May
- All funding is O&M General (not shared with IWTF)
- Total costs (to-date) are just over **\$21,000,000**

\* Costs and schedule subject to change



# DEMOPOLIS LOCK – UPPER MITER SILL FAILURE – SUPPORT

- Parker Towing – assistance with closing lower miter gates
- TVA – assistance with originally setting upper stoplogs
- McKinney Salvage & Heavy Lift, Inc. – assistance with removal of large debris
- Cemex/ReadyMix – providing concrete from local batch plants in Demopolis
- ITWW Project – providing fleet assets to assist with repairs and construction



Parker Towing Barges & Towboats



TVA Setting Upper Stoplogs



McKinney Salvage Debris Removal



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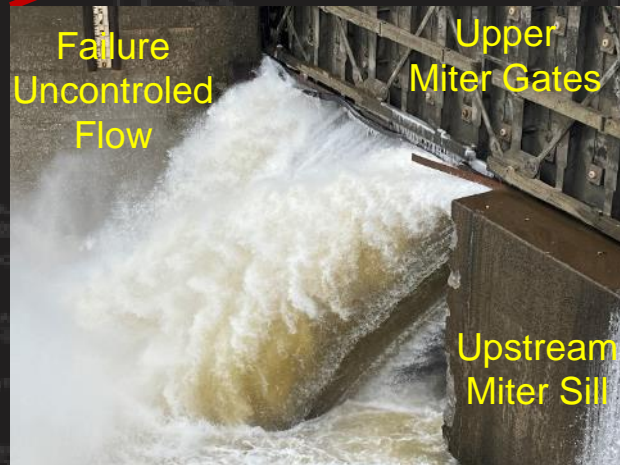
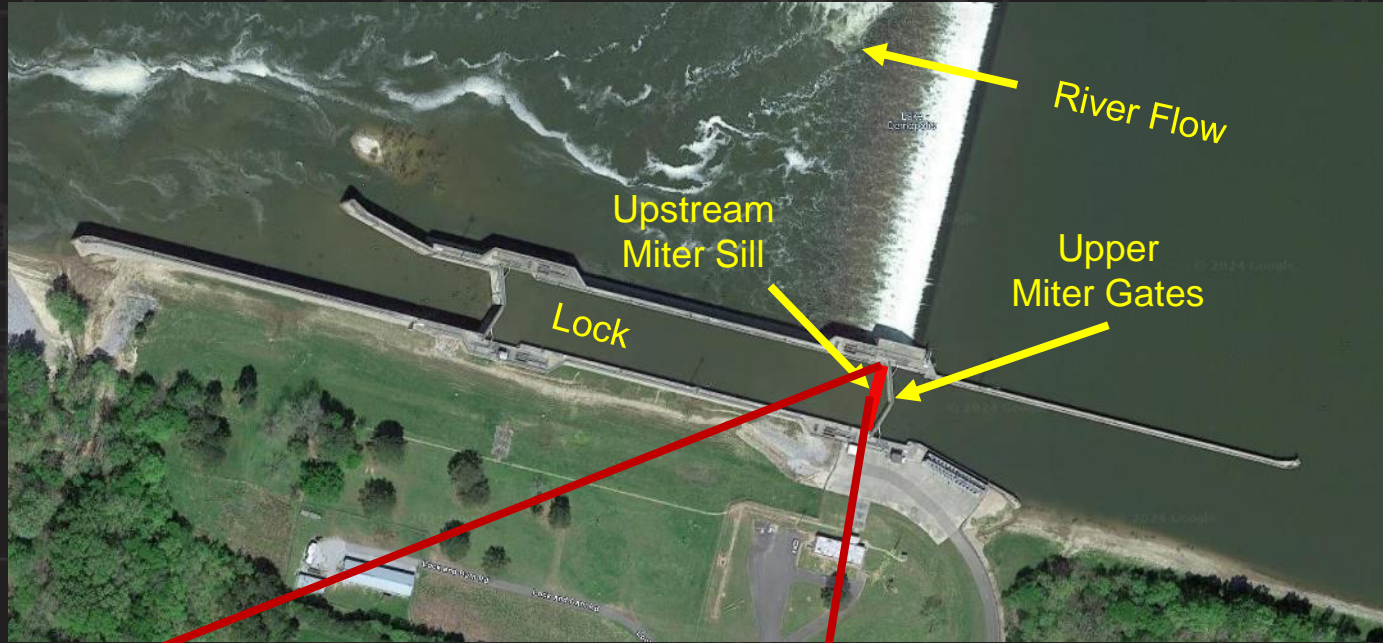
# BLACK WARRIOR/TOMBIGBEE RIVER: DEMOPOLIS LOCK – UPPER MITER SILL FAILURE - 16 JAN 2024

**16 January 2024 Incident:**  
At 0600 the on-duty lock operator heard a loud noise and while investigating noticed water flowing under the upper miter gate. The concrete that comprises the upper miter sill fractured, allowing water to pass under the gate. The lower lock gates were open at time of the incident.

Project contacted District personnel to start planning courses of action. Notice to Mariners are being issued to update users.

Current operations are to close the lower miter gates to allow the pool to equalize and set the upper stoplogs to get the lock chamber under control. Operation will take place 19-21 January. Engineering and Operations are continuing to analyze the extent of damages and are working other courses of action to stop the flow and get the lock under control.

At this time, the extent of damages have not been determined. Once the lock is dewatered damage assessment and repair plans can be developed. No accurate estimate for closure duration is available at this time. This schedule will be refined once a full assessment of the damages can be performed.



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*Deliver Integrated  
Water Resource  
Solutions*

