

PROJECT INFORMATION

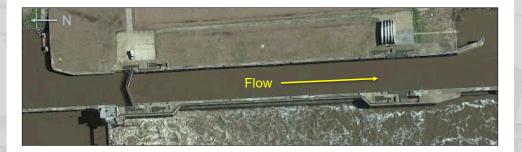


PROJECT INFORMATION



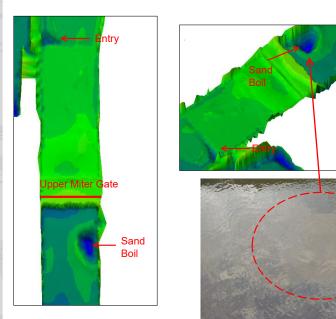


PROJECT INFORMATION



- Lock width: 84 ft.
- Useable length: 600 ft.
- Provides 18 ft. of lift
- Normal upper pool elevation is 52.0 ft. (NGVD)
- Normal lower pool elevation is 34.0 ft. (NGVD)





2015 ISSUES

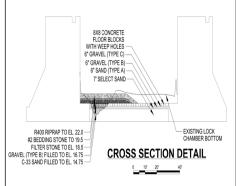
Issue first discovered November 2015.

- Lock master saw a plume of material inside the lock chamber.
- Performed multi-beam survey of the project.
- Lock closed to navigation for repairs

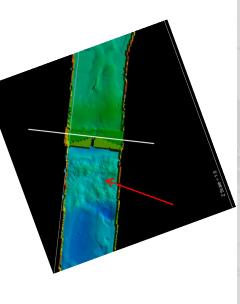
U.S.ARMY







- Temporary repair designed, installed, and completed • by December 2015 allowing navigation to continue.
- District budgeted and requested funds to design a • permanent repair.
- Request included funds for: •
 - Seepage study •
 - Drilling / installation of relief wells



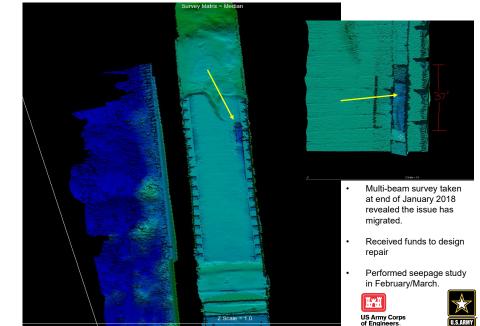
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US Army Corps of Engineers.

U.S.ARMY

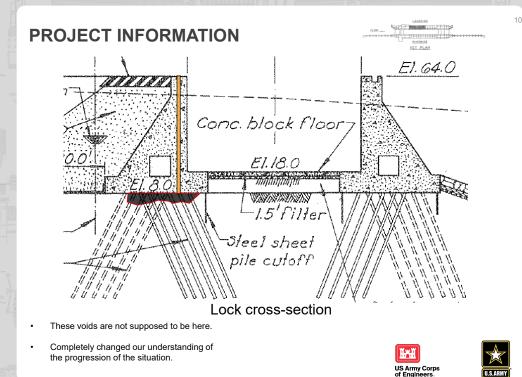
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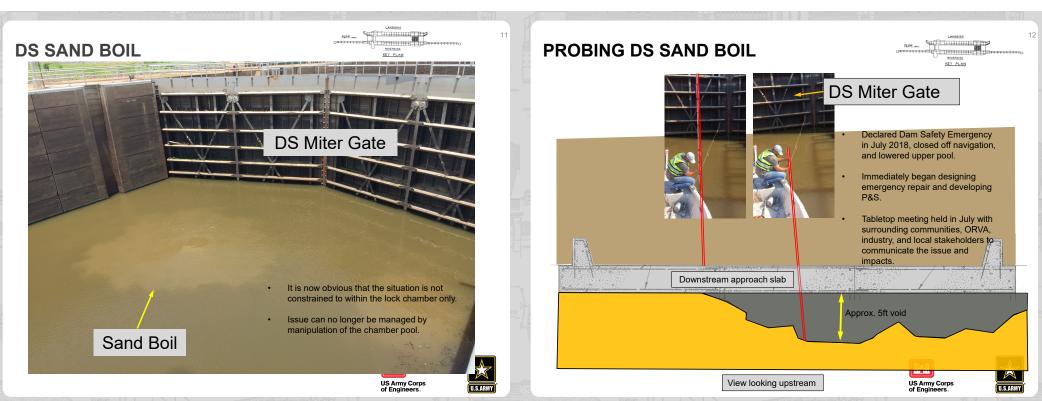
2018 MULTI-BEAM SURVEYS













S · Sand Boils · Voids Under Wall

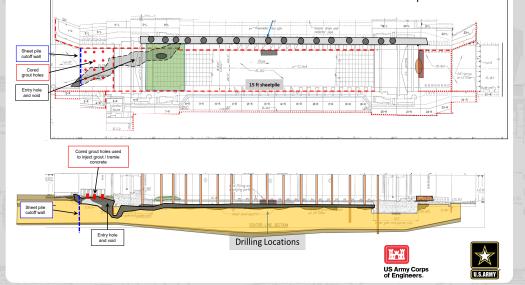
Voids Onder Wall
 Void in Chamber Floor

Coring
 Grouting / Tremie Concrete
 Relief Wells

Exploratory Drilling

Floor Repair

Sheet Pile



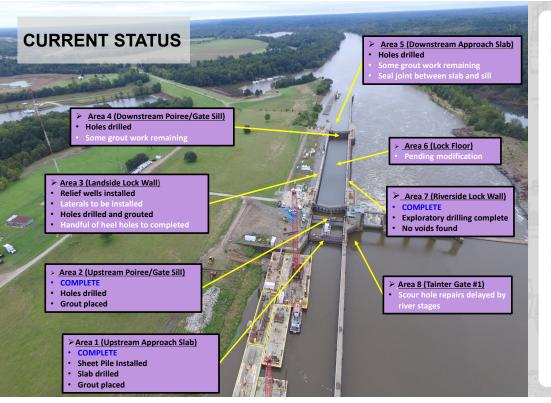
FINDING A CONTRACTOR

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- Market research identified 6 technically capable contractors.
- Many of the prime contractors were not interested in the work due to: • Complexity of work
 - Uncertainty of work in underwater conditions
 - Need for a <u>guick turn-around</u> to open project back for navigation
 - Engineering During Construction (EDC) <u>flexibility</u> to modify plans/specs in the midst of changing conditions
- Massman Construction Co. won the bid as the general contractor



14



WHEN WILL IT BE COMPLETE?

- <u>End of April</u> is targeted for completion.
 High river could push completion in <u>early to mid May</u>.
- Final grout quantities and lock floor repairs will drive final completion date.
- Relief well lateral drain installation and repair in front of tainter gate are water level dependent.

WHEN WILL PROJECT BE OPEN?

- Opening for navigation could be as early as end of May.
- Drain installation and repair in front of tainter gate not expected to delay opening the project.



