

Presentation to the:

# ***Inland Waterways Users Board***

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USACE***

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US Army Corps of Engineers  
**BUILDING STRONG**



# Calcasieu Lock South Chamber Wall Replacement May 2018 - Jun 2019



# Calcasieu Lock

- Multipurpose Lock – Navigation, Flood & Salinity Control - Completed 1950
- 75 feet wide x 1200 feet long x -13 feet mean low gulf
- Located near the intersection of the Calcasieu River and GIWW near Mile 238 of the GIWW - 10 miles south of Lake Charles.
- 40.6 M tons in 2017; 15<sup>th</sup> nationwide
- Averages ~1100 tows per month
- No viable inland alternate route when the lock is closed



# Calcasieu Lock Chamber Wall Construction Challenges

- Contract to replace existing timber south chamber guidewall with concrete and steel modular guidewall awarded 22 Feb for \$11.8 million
- Demolition of existing guidewall 21 May through 25 June with contractor working 10 hour day shifts Monday through Friday and lock operated for vessel traffic nights and weekends – queues managed within reasonable numbers < 20
- Template to align foundation piles situated in lock chamber 28 June. Installation of foundation piles for replacement wall commenced 10 July.
- Vessel queue and average wait time escalated upwards of 100 vessels on turn and 80 hour delays.

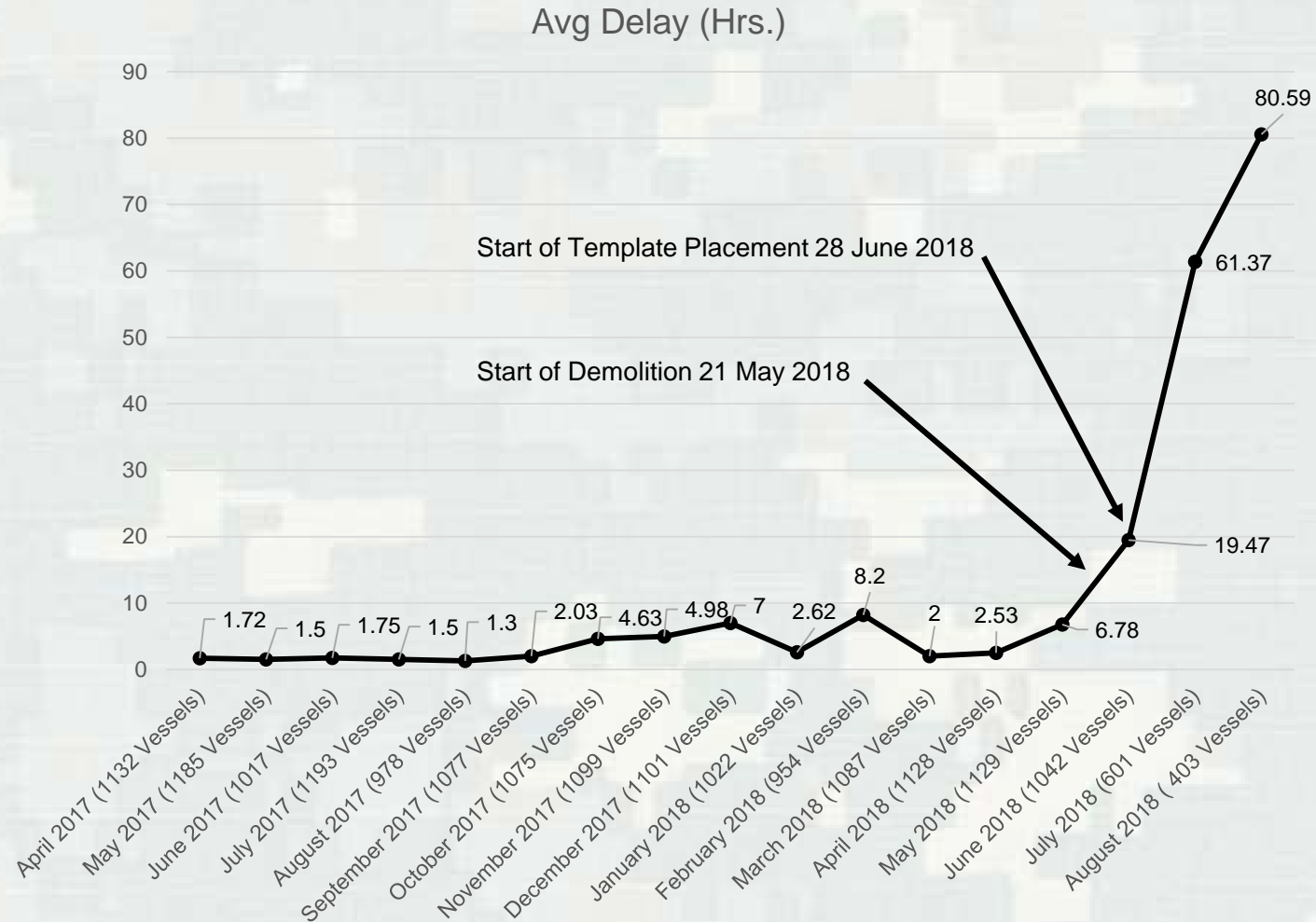


# Calcasieu Lock Chamber Wall Pile Alignment Template



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# Calcasieu Lock Average Delay (Hrs.) April 2017-Present



Note: August data is from 1 August – 14 August



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# Calcasieu Lock Chamber Wall Construction Traffic Management Measures

- Ongoing coordination between USACE, GICA, USCG and navigation industry
- Port Captains stationed at the lock to assist Lock Operators in traffic management
- Assist vessels staged at the lock to control and expedite vessels through the chamber
- Guide piles installed to facilitate alignment of transiting vessels and buffer the pile template



# Calcasieu Lock Chamber Wall Construction Traffic Management Measures - continued

- Changed construction schedule from 10 hour days Monday through Friday to 12 hour days Monday through Thursday
- Staging areas established east and west of the lock to preposition waiting tows next in queue
- Alternating lockages 6 hours east - 6 hours west on week night operations; 12 hours east – 12 hours west during weekend operations
- Instituted protocols to bypass tows next in queue that fail to advance promptly when directed. Protocols codified in Marine Safety Information Bulletin published 10 August 2018.
- Coordinated with USCG to keep Black Bayou Bridge open for vessel traffic to maximum extent practicable





# General Concept Replacement Wall



# Questions

