NATIONAL WATERWAYS CONFERENCE 13 SEPTEMBER 2018

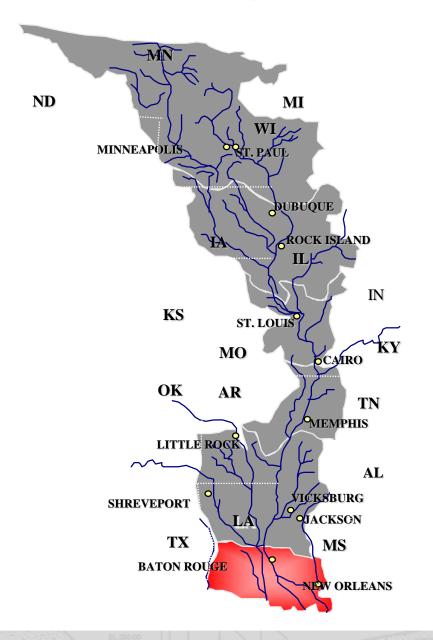
New Orleans District Update
Col. Michael Clancy, Commander, New Orleans District

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





NEW ORLEANS DISTRICT



- 2,800 miles of navigable waterway
- 973 miles of MR&T levees
- 325 miles of hurricane risk reduction levees
- 5 of the nation's 15 busiest ports
- 18 locks and control structures
- 15 pumping plants
- 13 recreation areas
- 8,000 annual regulatory actions



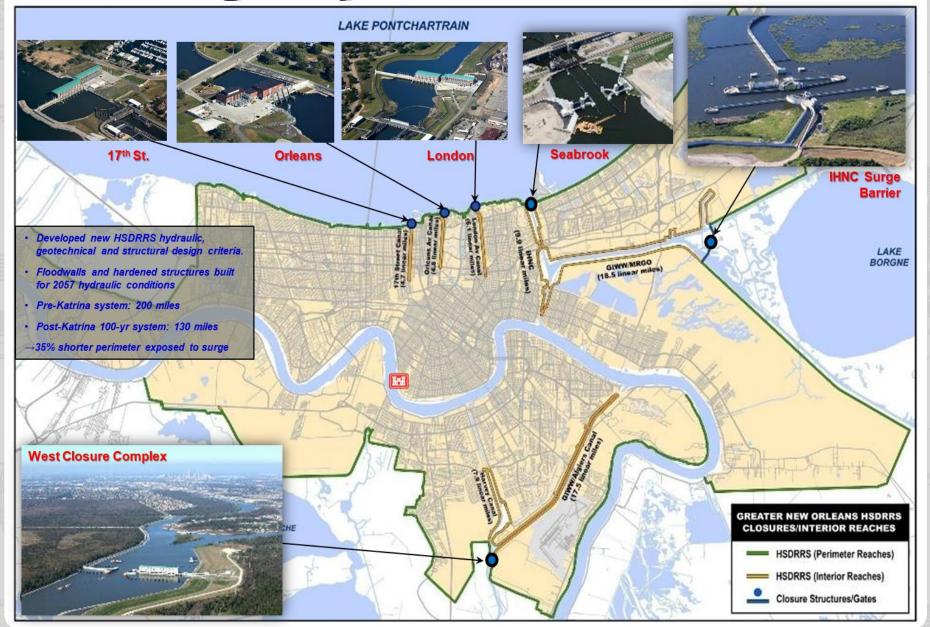


New Orleans District Fact & Figures

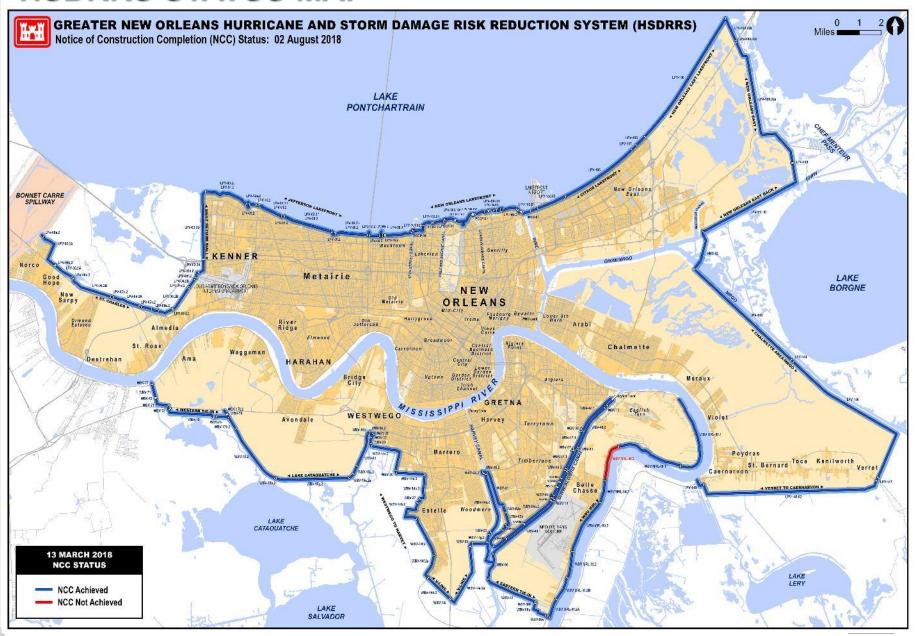




A Stronger System Than Ever Before



HSDRRS STATUS MAP



HSDRRS REMAINING WORK



SELA Interior Drainage



Armoring



Environmental Mitigation



New Orleans to Venice / Non-Federal Levees **Program Appropriations**Unobligated Funds





2018 Mississippi River High Water











- Peak discharge of 2.07M cfs (8th largest since 1912)
- 12th operation of Bonnet Carré Spillway
 - 183 of 350 bays opened
 - shortest opening (22 days)
 - Flood fight initiated on FEB 26
 - Team effort with local levee districts
 - 237 hotspots closely monitored (down from 286 in 2016)
- Six dredges working in SouthwestPass
 - 42 ft draft restriction





FY 2018 SUPPLEMENTAL - MVN

Short-Term Repairs: \$306.4M

- \$25.2M in FY17 Supplemental Funds
 - MR&T-C and MR&T-O&M
- \$281.2M in FY18 Supplemental Funds
 - O&M, MR&T-C and MR&T-O&M

Long-Term Projects: 1.388 Billion

- Comite River Diversion (\$343M)
- East Baton Rouge Flood Control (\$255M)
- West Shore Lake Pontchartrain (\$760M)
- Grand Isle (\$15M)
- Five Studies (\$3M each)
 - Upper Barataria Basin FRM
 - South Central Coastal
 - Amite River & Tribs Comp Study East of Miss. River
 - West Bank & Vicinity Levee Lifts GRR
 - Lake Pontchartrain & Vicinity Levee Lifts GRR



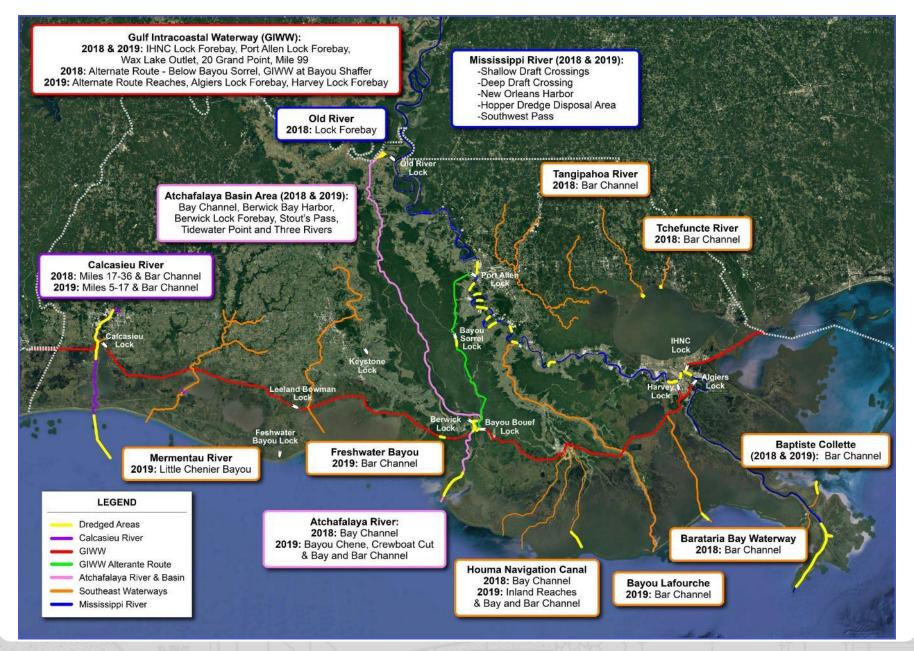
FY 2018 WORK PLAN FUNDING RELEASED JUNE 11, 2018

New Orleans received ~\$154M of \$1.7B total

- Studies
 - Calcasieu Lock
 - IHNC
 - Southwest Coastal
- Projects
 - Comite
 - Atchafalaya Basin
 - MR&T
 - Old River Control
 - Houma Navigation Canal



FY2018 / 2019 DREDGING

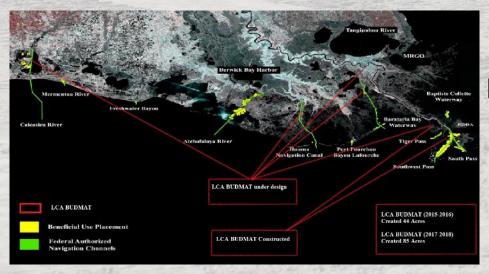


	NEW ORLEANS DISTRICT FY 2018 REMAINING CONTRACT DREDGING SCHEDULE & Cutterhea FY 2019 CONTRACT DREDGING SCHEDULE Bucket D															Dredge lead Dred	ge
Project	Bid Open Date	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Point of Contact
New Orleans Harbor Cutterhead Dredge Rental #1–18 (includes dredging in GIWW Lock Forebays)	5/29/2018																Michelle Kornick 504-862-1842
Atchafalaya Basin, GIVV, & Miscellaneous Projects IDIQ (includes dredging in Old River)	7/6/2017																Tim Connell 504-862-2630
Houma Navigation Canal Bay & Bar	9/5/2018																Ray Newman 504-862-2050
Freshwater Bayou Bar Channel	8/28/2018																Tracy Falk 504-862-2971
Mermentau Little Chenier Bayou	9/6/2018																Tracy Falk 504-862-2971
Calcasieu River Miles 5-17 & Devil's Elbow	9/6/2018																Tracy Falk 504-862-2971
Mississippi River Hopper Dredge Disposal Area	9/6/2018																Michelle Kornick 504-862-1842
Atchafalaya River Bayou Chene, Bay Channel, & Bar Channel	9/5/2018																Tim Connell 504-862-2630
Bayou Lafourche Bar Channel	10/23/2018																Ray Newman 504-862-2050
Baptiste Collette Bar Channel	11/15/2018																Ray Newman 504-862-2050
Calcasieu River Bar Channel #1-18	10/31/2018]						Tracy Falk 504-862-2971
Houma Navigation Canal Inland Reaches	12/20/2018																Ray Newman 504-862-2050
Southwest Pass Hopper Dredge Rental #1-19	2/20/2019																Michelle Kornick 504-862-1842
Southwest Pass Cutterhead Dredge Rental #1–19	2/21/2019																Michelle Kornick 504-862-1842
Southwest Pass Hopper Dredge Rental \$2–19	3/7/2019																Michelle Kornick 504-862-1842
Southwest Pass Hopper Dredge Rental #3–19	3/26/2019																Michelle Kornick 504-862-1842
Southwest Pass Hopper Dredge Rental #4–19	4/9/2019																Michelle Kornick 504-862-1842
New Orleans Harbor Cutterhead Dredge Rental #1-19 (includes dredging in GIWW Lock Forebays)	5/8/2019																Michelle Kornick 504-862-1842
Atchafalaya Basin, GIWW, & Miscellaneous Projects IDIQ (includes dredging in Old River)	7/9/2019								Note	: Estimat	ed dred <u>c</u>	jing dates	are 25 J	lul 2019 t	o 25 Oct 2	2019.	Tim Connell 504-862-2630
Calcasieu River Miles 15-36 & Devil's Elbov	7/10/2019								Not	e: Estima	ted dred	ging date	s are 9 S	ep 2019	to 7 Jul 2()20.	Tracy Falk 504-862-2971
GIWW Alternate Route	8/21/2019								Note	: Estimat	ed dredg	ing dates	are 21 S	ep 2019 (to 21 Jan 2	2020.	Vic Landry 504-862-2407

Note: The highlighted projects are partially or fully funded with Bipartisan Budget Act of 2018 funds.

BENEFICIAL USE OF DREDGED MATERIAL

- 31,401 acres created since 1976
- Upcoming LCA
 BUDMAT
 Calcasieu/Sabine
 project expected to
 create 400 acres



Design Agreements for additional projects with:

- Plaquemines Parish –Tiger Pass 2
- Jefferson Parish –
 Barataria Waterway
- Port of Lake Charles –
 Calcasieu River/Sabine
 Refuge (Sept 2018)

Letter of commitment:

St Bernard Parish - Mississippi River near
 New Orleans Harbor

MVN INLAND NAVIGATION STATUS



Current and Future Planned Work On GIWW Within New Orleans District 2018-2019

- Calcasieu Lock Chamber Guidewall Replacement Completion October 2019
- Bayou Boeuf Lock Dewatering and Major Repairs Completion October 2018
- Bayou Boeuf Lock South Chamber Guidewall Replacement
- Bayou Boeuf Lock Guidewalls Timber Replacement with Composite Plastic
- Bayou Sorrel Lock South End Dewatering and Major Repairs
- Bayou Sorrel Lock Guidewalls Timber Replacement with Composite Plastic
- Bayou Sorrel Lock Southwest Approach Dolphin and Guidewall Replacement
- IHNC Lock River End Floating Guidewall Replacement (Southwest G/W)
- Dredging at Various Locations Morgan City Area and Lock Forebays and Alternate Route Below Bayou Sorrel Lock





Calcasieu Lock Chamber Wall Replacement



Scope

- The south chamber guidewall of Calcasieu Lock is being replaced under a contract with duration of ~400 days.
- Multipurpose Lock Navigation, Flood & Salinity Control
- Limited hours available for open pass (east gage >2')
- High tonnage lock 40.6 M tons in 2017; 15th nationwide
- Lock typically passes average of 1100 vessels per month

Challenges

- Vessel queue has varied from 60-100+ since pile driving started
- Nights/Weekend construction stand downs have not matched traffic

Path Forward

- Partnering with GICA, USCG, Navigation Industry
- Navigation industry stationed pilot at lock approximately 3 weeks
- Construction contractor began 4-day work week
 30 Aug
- Additional Construction Stand Downs If Needed
- Guide pile installation
- Installation of temporary mooring pile/bits

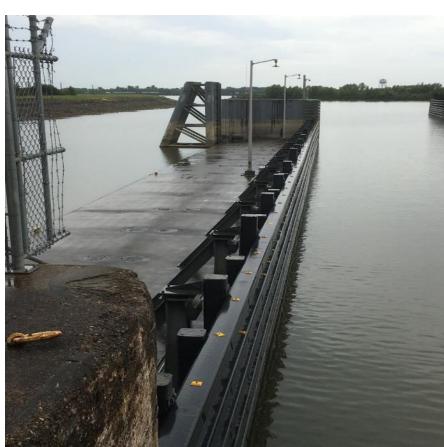




IHNC SOUTHWEST FLOATING GUIDEWALL & DOLPHIN FEBRUARY – DECEMBER 2019



Present Southwest Guide Wall



Present Southeast Guide Wall





BAYOU BOEUF LOCK DEWATERING AND MAJOR REPAIRS: FEBRUARY – OCTOBER 2018







BAYOU BOEUF LOCK EAST END DEWATERING AND MAJOR REPAIRS: FEBRUARY – JULY 16, 2018









- Major marine accident in late December caused severe gate damage
- Gates pulled in wet and placed on land for damage repair
- Performed complete gate rehab: Machinery, seals, and concrete repairs
- Due to high river levels, bypass around lock through Bayou Chene required for several months





BAYOU BOEUF LOCK WEST END DEWATERING AND MAJOR REPAIRS: JULY 16 – OCTOBER 15, 2018



Removal of Southwest Gate on 19 Jul 2018



West Gates removed from Lock prepped for steel repair, sandblasting and painting

- Remove gates, refurbish gates on land
- Lock to operate in "Open Pass" mode as long as water elevations allow
- Intermittent closures of several days to facilitate pintle work, bypass around lock through Bayou Chene available
- Dewater the west end sector gate bay in October
- Machinery, seals, and concrete repairs
- Guidewall repairs





BAYOU SORREL LOCK SOUTH END DEWATERING AND MAJOR REPAIRS: AUGUST 15 – NOVEMBER 15, 2018

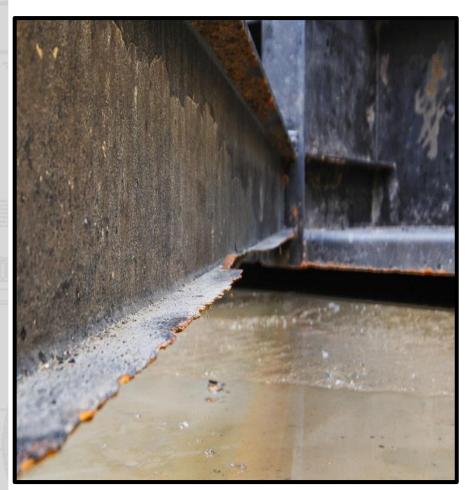


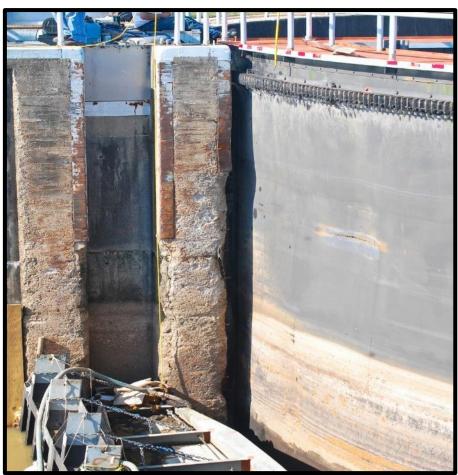
- Complete closure of the lock required
- Must be completed during low water season
- Complete gate, seals, machinery and limited concrete refurbishment
- Major steel work required on gates
- Guidewall repairs
- Detour around lock required via Algiers or Old River Lock





BAYOU SORREL LOCK SOUTH END DEWATERING AND MAJOR REPAIRS: AUGUST 15 – NOVEMBER 15, 2018









Calcasieu Saltwater Barrier Tainter Gate Failure



Schedule

- Failed Tainter Gate was removed on 29 Jan 18
 - Repair has been completed
- Remaining 4 tainter gates will be repaired starting 1 Oct 18
 - The summer months are high salinity months. The winter months are the best time to pull and repair the gates.

Scope

- One of the tainter gates on the floodway failed on 1 Jan 18. The remaining 4 gates are in imminent danger of failure.
- The Saltwater Barrier consists of a navigation structure with one set of gates (56' wide by 13' deep) and 5 tainter gates (40' wide by 20' deep).
- Purpose of the structure is to minimize salinity north of the structure as a result of the Calcasieu River and Pass being straightened, widened and deepened to current authorized dimensions of -40' x 400'.

Path Forward

- The failed gate was repaired using emergency 1% funding from HQUSACE.
- The remaining 4 gates will be repaired using FY18 Work Plan funds.





MISSISSIPPI RIVER SHIP CHANNEL

- Partnering effort with La. Department of Transportation
- Evaluate benefits and costs associated with deepening the Mississippi River Ship Channel from 45' to 50' between Baton Rouge and the Gulf of Mexico
- Director's Report for the General Reevaluation Report signed
- Benefit Cost Ratio is 7:2
- Anticipated cost to deepen to 50' is \$245 M







Calcasieu Lock, LA



STATUS

- The Report of the Chief of Engineers was signed on 2 Dec 2014
- The ASA(CW) transmitted the final report to Congress on 20 August 2015
- Authorized for construction in Section 1401
 WRDA 2016 at a total cost of \$17.4M
- Increased structure size necessary due to updated hydraulic modeling conditions
- ERDC performing 2d modeling which will be followed by ship simulation modeling.

CHALLENGES

- Efforts to complete PED phase include:
 - 95% P&S
 - Ship Sim Modeling required
 - Updated environmental compliance
- Verification that the project remains under the Section 902 Limit due to increased size of the structure from what was recommended in the Chief's Report

PATH FORWARD

- Project received recompletion funds in the amount of \$1.035M to complete PED phase.
- Confirm that project remains under the Section 902 Limit and complete PED to position project to advance to construction





IHNC LOCK REPLACEMENT GENERAL REEVALUATION REPORT



STATUS

- Based on the economic modeling results the TSP is 110 ft x 900 ft x 22 ft with a BCR of 4.78.
- Draft report was released to the public 6 Jan '17
- Public Review ended on 7 April 17
- No funds budgeted in FY18 or for FY19
- FY18 Workplan allowance now funding study resumption to completion

CHALLENGES

- Construction of the project is strongly opposed by local residents
- High risk for future litigation due to public perception of project impacts
- 3x3x3 exemption approved 3 Oct 17 for additional \$1.435 mil and completion of a Chief's Report NLT 12 Dec '19

PATH FORWARD

- Ensure communication is maintained with local residents and stakeholders
- GRR will update the traffic impact analysis and Community Impact Mitigation Plan (CIMP)
- Scheduled Final SEIS S&A/Public Review Start – 12 Sep '19
- Chief's Report 12 Dec '19





THANK YOU



