One Project at a Time
Recovery Resilience Mitigation

September 19, 2019
Agenda

Project Background
FEMA Public Assistance
Mitigation Opportunity
Project Activities
Project Background

Ohio River – Blackburn Boat Ramp

- Located along the Ohio River
- River 0.5 miles wide
- Floodway 1.4 miles wide
- Floodplain 3.5 miles wide
- Ramp critical to local emergency operations
- Used for life saving operations
- Emergency backup for access to other side of river – Shawneetown IL
- Damaged in February 2018
- 500 linear feet of bank failure
- Loss of approximately 4,000 CY of material
FEMA Public Assistance to the Rescue

**Disaster Declared (DR 4361)**

- Kentucky Severe Storms, Tornadoes, Flooding, Landslides, And Mudslides (DR-4361) - $23.1 M

- Cost Estimation for Damages
  - Bank restoration
  - Parking lot repair
Mitigation Request

- FEMA PA provides up to 1 X Damage
- Goal – eliminate repetitive losses
- Preliminary engineering
  - Increase bank stability
  - Place large toe stone
  - Protect bank – bioengineering and rock
  - Adjust location of parking lot
- Engineering required
  - Survey
  - Geotechnical analysis of soil
  - Hydraulic analysis of river
  - Design and Construction Support
Interagency Coordination

- Union County worked with FEMA to identify and evaluate the damages
- Union County worked with USACE and KDOW for State and Federal permitting
- Union County coordinated closely with Kentucky Fish and Wildlife
Project Activities

Geotechnical Investigation

• Soft clayey silt
• Highly susceptible to erosion
• Lack of native vegetation
Project Activities

Survey

- Conventional and bathymetric
Project Status – Next Steps

Status

- Hydraulics complete October 2019
- Design completion December 2019
- Construction start Spring 2020
- KYEM/FEMA Completion deadline – October 2020
Questions

In Mark Brasher’s County