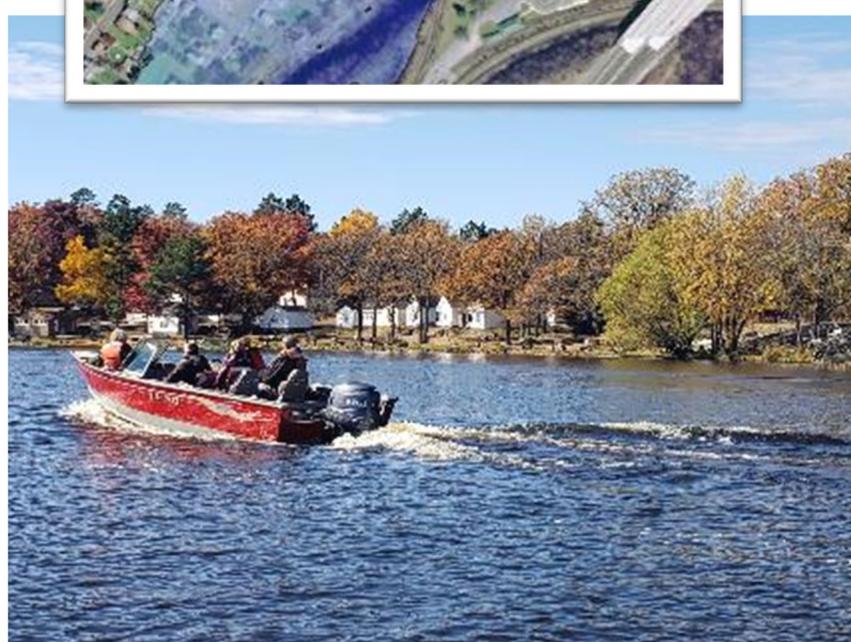


# EXPLORING SUCCESS AND EXAMPLES ON THE GROUND DELIVERING TECHNICAL ASSISTANCE: EXAMPLES FROM THE FIELD



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# PAS EXAMPLE: BIG SANDY FISH ESCAPEMENT STUDY

Kim Warshaw  
St. Paul District

27 April 2022



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# MVP – BIG SANDY FISH ESCAPEMENT STUDY



Kim Warshaw, St. Paul District

**Agreement Type** – Comprehensive Study

**Partners:** Minnesota DNR, Iowa State University

**Project Description:** This project is examining fish escapement in Big Sandy Lake using acoustic receivers and considering the impacts of escapement on fish communities. This project is ongoing through FY23

**Objectives:** The Corps and MNDNR will conduct detailed fisheries assessments and analyses within the watershed to determine abundance, movement within the watershed, escapement, and chemical and geomorphological habitat assessments, along with concurrent hydrological data collection from the current Corps dam operations

**Total project costs:** \$718,000, 50/50 cost share

**Intended outcomes/benefits:** Aid in the MNDNR’s planning for water resource management for Big Sandy Lake

# PAS EXAMPLE: MUNCY FLOOD RISK MANAGEMENT STUDY, PA

Karl Kerr  
Baltimore District

27 April 2022

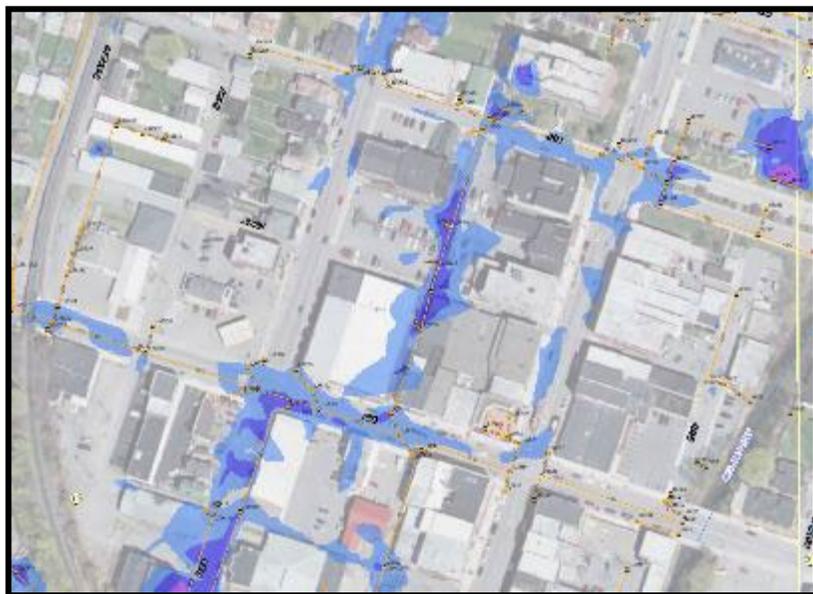


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# NAB - MUNCY FLOOD RISK MANAGEMENT STUDY



**Agreement Type** – Comprehensive

**Partners:** Lycoming County, PA; Muncy Bank and Trust; Susquehanna River Basin Commission

**Project Description:** Muncy Borough requested assistance to support their initiative to become a Resilient City and address flooding issues. The benefits of this study will be a more resilient community, with a plan to reduce impacts from flooding. Project is estimated to take 2-3 years for completion.

**Objectives:**

- Data collection
- Hydrologic and hydraulic modeling
- Stormwater modeling
- Develop alternatives to address riverine and stormwater flooding
- Economic analysis

**Community Benefits:**

- Updated floodplain mapping and modeling
- Technical Report with FRM alternatives
- Information/ Data to implement alternatives
- Increased flood awareness

**Total project costs:** \$337K

# FPMS EXAMPLE: CITY OF GREENVILLE, GA

Sarah Speer  
Jacksonville District

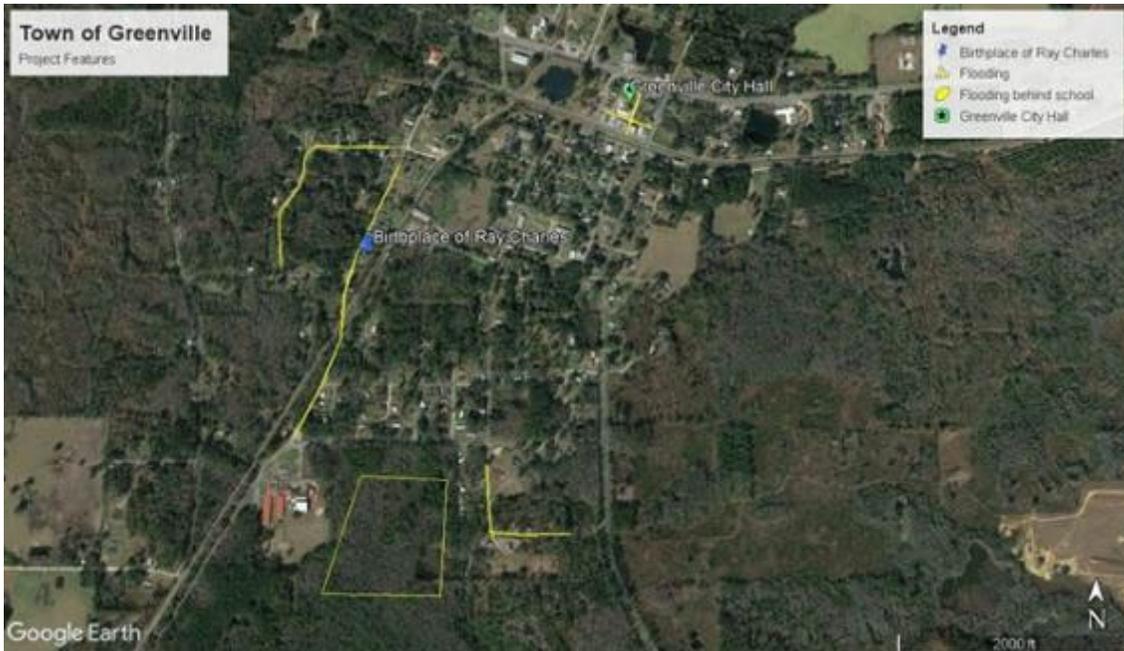
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# CITY OF GREENVILLE FPMS STUDY



**Non-Federal Sponsor:** City of Greenville

**Project Description:** The City of Greenville is a small town located in Madison County, Florida bordering the State of Georgia. The City is severely economically disadvantaged. The City of Greenville project area includes the city limits and outside contributing drainage basin.

**Problem:** The problem associated with the City of Greenville is drainage issues and flooding due to heavy rain events which causes damage downtown, south and west of town.

**Scope:**

- Determine source of flooding
- Determine impacts to rerouting water
- Gather flood impact data
- Reduce risk associated with floods
- Reduce impacts to natural resources within project area
- Provide best performing alternatives to alleviate the problem



# CITY OF GREENVILLE FPMS STUDY

Alt	Description	Cost	Total Cost
Alt 1	Stormwater Cleanout	\$640,000	<b>\$640,000</b>
Alt 2	Additional Barrel at C1	\$140,000	<b>\$140,000</b>
Alt 3	Reduce Capacity at C10 New Channel Between C1 and C10	\$28,000	<b>\$28,000</b>
Alt 4a	(a) - excavate a long, narrow channel along Hwy 55	\$374,000	<b>\$374,000</b>
Alt 5	New Channel West of C1 Lower Invert at C7 (b) - Remove existing culvert and replace with a	\$106,000	<b>\$106,000</b>
Alt 6b	large box culvert	\$213,000	<b>\$213,000</b>
Alt 7	Additional Barrel at C13	\$235,000	<b>\$235,000</b>
<b>Total Construction Cost if All Potentially Best Performing Alternatives are Constructed:</b>			<b>\$1,736,000</b>

**Schedule:** October 2019 – July 2021

**Budget:** \$150,000

**Final Alternatives/Recommendations:**

- Seven
- Total Estimated Cost If All Are Implemented - \$1,736,000

**Outcome:** City of Greenville received a Florida Resiliency Grant in the amount of \$660,000 in order to pursue Phase 1 of the report recommendations.

# FPMS EXAMPLE: FLOOD INUNDATION MAPPING FOR ACQUISITION PLANNING, PA

Andrea Carson  
Pittsburgh District

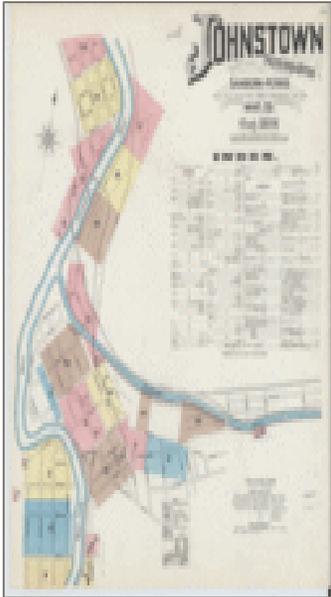
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# FPMS INTERAGENCY NONSTRUCTURAL FLOOD INUNDATION MAPPING FOR ACQUISITION PLANNING



**Partners:** City of Johnstown, PA; Cambria County Emergency Management Agency; PA Department of Environmental Protection; Tetrattech - EPA Brownfields Contractor; Vision 2025; and the Johnstown Redevelopment Authority.

**Project Description:** USACE developed flood inundation maps which were then to be used by the agency partners to assess parcels at risk of flooding, create acquisition plans for parcels/structures along the Johnstown Local Protection Project.

**Objectives:**

- Conduct Hydrologic and hydraulic modeling
- Produce inundation maps
- Identify parcels at highest risk of flooding
- Create acquisition plans to eliminate that risk

**Total project cost:** \$153K; \$110K USACE/\$43K Partners

**Benefits to Partner/Community:** The inundation modeling and mapping allows local officials and emergency managers to make informed decisions regarding how they can reduce flood risks and plan for emergency action. The inundation maps also were used to inform blight remediation and identify parcels ripe for acquisition and transition to greenspace/floodplains.

**Andrea Carson, Pittsburgh District**

# FPMS & PAS EXAMPLE: FORT MCDERMITT, CA FORT MCDERMITT PAUITE AND SHOSHONE TRIBE

Melissa Weymiller  
Sacramento District

27 April 2022



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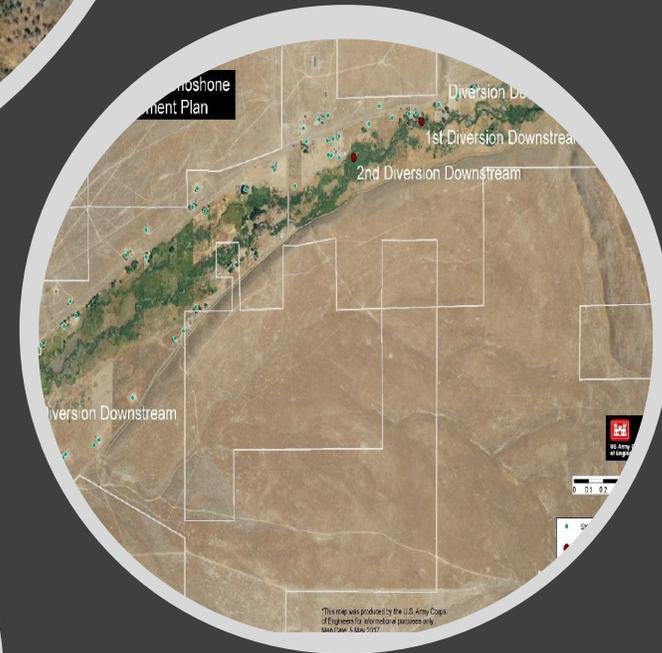
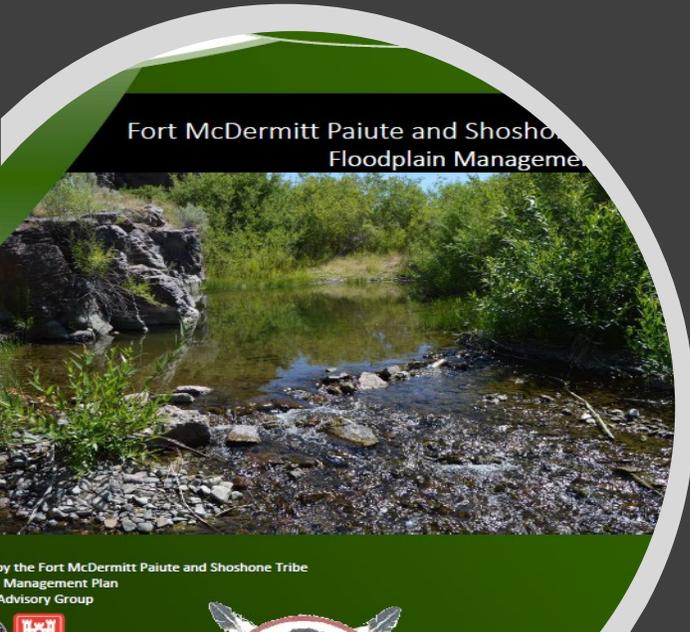
# COLLABORATION CONTINUUM



# Developing Partnerships: Fort McDermitt Pauite and Shoshone Tribe *From Coexistence to Communication*

- Small Tribal Community in Nevada
- 1997 Flood Destroyed Diversion Dam
- FPMS Interagency Project to Develop a Floodplain Management Plan





# Developing Partnerships

## *From Communication to Cooperation and Collaboration*

- FPMS Interagency Project to Produce Floodplain Maps
- Collaboration with NRCS



# Developing Partnerships

## *Ongoing Partnerships*

- Planning Assistance to States Project
- Technical Assistance to Support Existing Planning Efforts
- Identifying Options to Reduce Flood Risk and Increase Water Supply Reliability
- \$484,000
- Partnership with NRCS Watershed Prevention and Flood Operations Program

