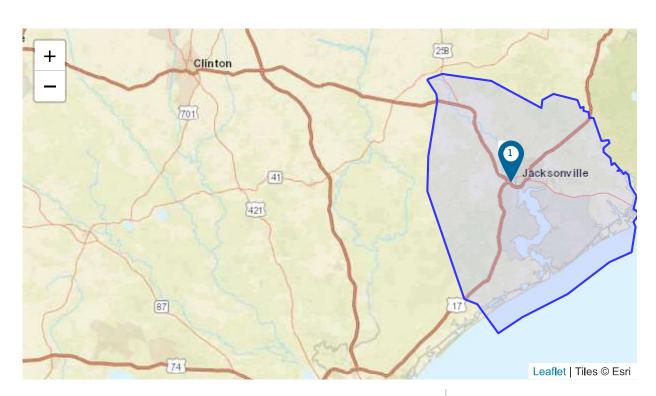


Benefit-Cost Analysis

Project Name: Mount Pleasant Road Pump Station Relocation



			Using 7% Discount Rate				Using 3% Discount Rate (For FY22 BRIC and FMA only)		
Map Marker	Mitigation Title	Property Type	Hazard	Benefits (B)	Costs (C)	BCR (B/C)	Benefits (B)	Costs (C)	BCR (B/C)
1	Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540	%	DFA - Riverine Flood	\$ 1,437,724	\$ 1,238,767	1.16	\$ 2,019,037	\$ 1,285,980	1.57
TOTAL (S	ELECTED)			\$ 1,437,724	\$ 1,238,767	1.16	\$ 2,019,037	\$ 1,285,980	1.57
TOTAL			\$ 1,437,724	\$ 1,238,767	1.16	\$ 2,019,037	\$ 1,285,980	1.57	

Property Configuration	
Property Title:	Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540
Property Location:	28540, Onslow, North Carolina
Property Coordinates:	34.74237301142065, -77.4491620238168
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodproofing Measures
Property Type:	Utilities
Analysis Method Type:	Historical Damages

Cost Estimation Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540					
Project Useful Life (years):	20				
Project Cost:	\$1,122,000				
Number of Maintenance Years:	20 Use Default:Yes				
Annual Maintenance Cost:	\$11,022				

Damage Analysis Parameters - Damage Frequency Assessment
Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540

Year of Analysis was Conducted: 2021
Year Property was Built: 2000
Analysis Duration: 22 Use Default:Yes

Utilities Properties Floodproofing Measures @ 228 Georgetown Rd,	Jtilities Properties Toodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540						
Type of Service:	Wastewater						
Number of Customers Served:	1,000						
Value of Unit of Service (\$/person/day):	\$60 Use Default:Yes						
Total Value of Service Per Day (\$/day):	\$60,000						

Historical Damages Before Mitigation

Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540

		WASTEWATER	OF	TIONAL DAMAG	ES	VOLUNTE	ER COSTS		TOTAL	
Damage Year	Recurrence Interval (years)	Impact (days)	Category 1 (\$)	Category 2 (\$)	Category 3 (\$)	Number of Volunteers	Number of Days	Damages (\$)	Current Dollars?	Inflated Damages (\$)
2016	0	7	0	0	0	0	0		No	420,000
2018	0	10	0	0	0	0			No	600,000
2021	0	8	0	0	0	0	0	480,000	No	480,000
2011	0	10	0	0	0	0	0	1	No	600,000
2003	0	11	0	0	0	0	0		No	660,000
2005	0	10	0	0	0	0	0	,	No	600,000

Annualized Damages Before Mitigation

Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540

20.549
20,545
62,830
61,332
Sum Annualized Damages and Losses (\$)
144,711

Expected Damages After Mitigation

Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540

	WASTEWATER	OPTIONAL DAMAGES			VOLUNTE	TOTAL	
Recurrence Interval (years)	Impact (days)	Category 1 (\$)	Category 2 (\$)	Category 3 (\$)	Number of Volunteers	Number of Days	Damages (\$)
20	3	0	0	0	0		180,000

Annualized Damages After Mitigation

Floodproofing Measures @ 228 Georgetown Rd, Jacksonville, North Carolina, 28540

Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)
20	180,000	9,000
	Sum Damages and Losses (\$)	Sum Annualized Damages and Losses (\$)
	180,000	9,000

Benefits-Costs Summary Floodproofing Measures @ 228 Georgetown	n Rd, Jacksonville, North Carolina, 28540
Total Standard Mitigation Benefits:	\$1,437,724
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$1,437,724
Total Mitigation Project Cost:	\$1,238,767
Benefit Cost Ratio - Standard:	1.16
Benefit Cost Ratio - Standard + Social:	1.16