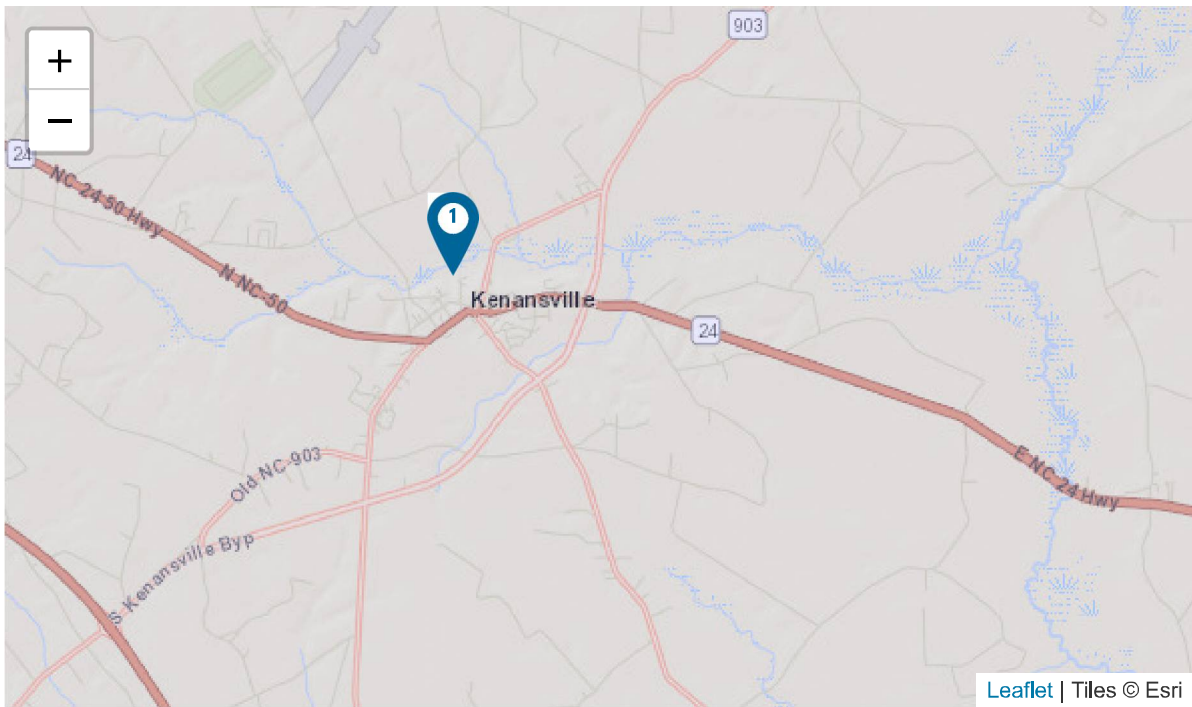




Benefit-Cost Analysis

Project Name: Grove Circle L/S



Map Marker ▲	Mitigation Title	Property Type	Hazard	Using 7% Discount Rate			Using 3% Discount Rate (For FY22 BRIC and FMA only)		
				Benefits (B)	Costs (C)	BCR (B/C)	Benefits (B)	Costs (C)	BCR (B/C)
1	Floodproofing Measures @ 34.9669830; -77.9655940		DFA - Riverine Flood	\$ 40,436	\$ 1,017,251	0.04	\$ 75,389	\$ 1,032,162	0.07
TOTAL (SELECTED)				\$ 40,436	\$ 1,017,251	0.04	\$ 75,389	\$ 1,032,162	0.07
TOTAL				\$ 40,436	\$ 1,017,251	0.04	\$ 75,389	\$ 1,032,162	0.07

Property Configuration

Property Title: Floodproofing Measures @ 34.9669830; -77.9655940
Property Location: 28349, Duplin, North Carolina
Property Coordinates: 34.966983, -077.965594
Hazard Type: Riverine Flood
Mitigation Action Type: Floodproofing Measures
Property Type: Utilities
Analysis Method Type: Historical Damages

Cost Estimation

Floodproofing Measures @ 34.9669830; -77.9655940

Project Useful Life (years): 50
Project Cost: \$1,000,000
Number of Maintenance Years: 50 Use Default:Yes
Annual Maintenance Cost: \$1,250

Damage Analysis Parameters - Damage Frequency Assessment

Floodproofing Measures @ 34.9669830; -77.9655940

Year of Analysis was Conducted: 2022
Year Property was Built: 1970
Analysis Duration: 53 Use Default:Yes

Utilities Properties

Floodproofing Measures @ 34.9669830; -77.9655940

Type of Service: Wastewater
Number of Customers Served: 1,614
Value of Unit of Service (\$/person/day): \$60 Use Default:Yes
Total Value of Service Per Day (\$/day): \$96,840

Historical Damages Before Mitigation

Floodproofing Measures @ 34.9669830; -77.9655940

Damage Year	Recurrence Interval (years)	WASTEWATER	OPTIONAL DAMAGES			VOLUNTEER COSTS		TOTAL		
		Impact (days)	Pumps (\$)	Electrical (\$)	Category 3 (\$)	Number of Volunteers	Number of Days	Damages (\$)	Current Dollars?	Inflated Damages (\$)
2018	100	3	5,000	2,209.55	0	0	0	297,730	No	298,832

Annualized Damages Before Mitigation

Floodproofing Measures @ 34.9669830; -77.9655940

Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)
100	298,832	2,988
Sum Damages and Losses (\$)		Sum Annualized Damages and Losses (\$)
	298,832	2,988

Expected Damages After Mitigation

Floodproofing Measures @ 34.9669830; -77.9655940

Recurrence Interval (years)	WASTEWATER	OPTIONAL DAMAGES			VOLUNTEER COSTS		TOTAL
	Impact (days)	Pumps (\$)	Electrical (\$)	Category 3 (\$)	Number of Volunteers	Number of Days	Damages (\$)
100	0.06	0	0	0	0	0	5,810

Annualized Damages After Mitigation

Floodproofing Measures @ 34.9669830; -77.9655940

Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)
100	5,810	58
Sum Damages and Losses (\$)		Sum Annualized Damages and Losses (\$)
	5,810	58

Benefits-Costs Summary

Floodproofing Measures @ 34.9669830; -77.9655940

Total Standard Mitigation Benefits:	\$40,436
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$40,436
Total Mitigation Project Cost:	\$1,017,251
Benefit Cost Ratio - Standard:	0.04
Benefit Cost Ratio - Standard + Social:	0.04