



## **APPENDIX D**

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### Project Portfolios



# TOWN OF AURORA / RICHLAND TOWNSHIP

## Wetland Restoration at Wastewater Treatment Plant

Project Summary				
Project Name	Wetland Restoration at Wastewater Treatment Plant (WWTP)			
Project Description	This unique WWTP uses the natural function of a wetland in its process to de-sanitize and purify wastewater. This project will restore wetland function by removing sludge, relining ponds, and elevating sides of the WWTP for storm surge protection. This project will also help ensure that clean water re-enters the river for many years to come.			
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding / Flood Zones</li> <li>▪ Storm Surge</li> <li>▪ Sea Level Rise</li> </ul>			
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Hybrid</li> </ul>			
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Protect</li> </ul>			
Project Estimated Cost	\$250,000 - \$350,000			
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ Resilient Coastal Communities Program Grant</li> <li>▪ Golden Leaf Foundation</li> <li>▪ BRIC</li> </ul>			
Project Estimated Timeline	1-3 years			
Priority Rating	High			
Potential Submission for RCCP Phase 3	◆	Yes	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

# Project Map



### Legend



Project Area

### Wetland Restoration at Wastewater Treatment Plant Vicinity Map

This project will restore wetland function by removing sludge, relining ponds, and elevating sides of the WWTP for storm surge protection. This project will also help ensure that clean water re-enters the river for many years to come.

Aurora, NC

Scale:

0 200 400



US Feet



# TOWN OF AURORA / RICHLAND TOWNSHIP

## Bailey Creek Tributary Improvements

### Project Summary

Project Name	Bailey Creek Tributary Improvements				
Project Description	Improve Bailey Creek to slow down water. Use nature-based solutions to improve the stream bed and natural functions of the stream to decrease storm surge and stormwater runoff effects.				
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding / Flood Zones</li> <li>▪ Storm Surge</li> <li>▪ Sea Level Rise</li> </ul>				
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Nature-Based</li> </ul>				
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> </ul>				
Project Estimated Cost	\$300,000 - \$500,000 for approx. 2,000ft of stream				
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ Golden Leaf Foundation</li> <li>▪ BRIC</li> <li>▪ FEMA Flood Mitigation Assistance (FMA)</li> </ul>				
Project Estimated Timeline	1-3 years				
Priority Rating	Medium				
Potential Submission for RCCP Phase 3		Yes	◆	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

### Project Map





# TOWN OF AURORA / RICHLAND TOWNSHIP

## Easements for Ditches and Tributaries

### Project Summary

Project Name	Easements for Ditches and Tributaries			
Project Description	Develop easements to maintain drainage ditches and tributaries. Once easements are obtained, identify locations where stormwater control methods could be implemented to provide water capacity and/or treat water.			
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding / Flood Zones</li> <li>▪ Storm Surge</li> <li>▪ Sea Level Rise</li> </ul>			
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Hybrid</li> </ul>			
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Accommodate / Protect</li> </ul>			
Project Estimated Cost	\$50,000 - \$75,000			
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ Golden Leaf Foundation</li> <li>▪ BRIC</li> <li>▪ American Rescue Plan Act (ARPA) of 2021</li> </ul>			
Project Estimated Timeline	1-2 years			
Priority Rating	High			
Potential Submission for RCCP Phase 3		Yes	◆	No <i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

### Project Map



# TOWN OF AURORA / RICHLAND TOWNSHIP

## Drainage Ditch and Tributary Maintenance Plan

### Project Summary

Project Name	Drainage Ditch and Tributary Maintenance Plan			
Project Description	Development of a maintenance plan for cleaning out drainage ditches and tributaries. Identify areas that could be turned into bioswales for treatment of runoff. This project will help reduce flooding and improve water quality.			
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Hazard A</li> <li>▪ Hazard B</li> <li>▪ Hazard C</li> </ul>			
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Nature-based</li> </ul>			
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Accommodate / Protect</li> </ul>			
Project Estimated Cost	\$100,000 - \$150,000			
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ Golden Leaf Foundation</li> <li>▪ BRIC</li> <li>▪ American Rescue Plan Act (ARPA) of 2021</li> </ul>			
Project Estimated Timeline	1-2 years			
Priority Rating	High			
Potential Submission for RCCP Phase 3		Yes	◆	No <i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

### Project Map



# TOWN OF AURORA / RICHLAND TOWNSHIP

## Community Retreat Parking Lot

### Project Summary

Project Name	Community Retreat Parking Lot				
Project Description	Develop a secure community parking lot outside of flood hazard areas where community members could park their vehicles during storms. The retreat location could also serve as a community amenity outside of major storm events.				
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding / Flood Zone</li> <li>▪ Storm Surge</li> <li>▪ Sea Level Rise</li> </ul>				
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Infrastructure</li> </ul>				
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Protect / Build Adaptive Capacity</li> </ul>				
Project Estimated Cost	\$150,000 – \$225,000 per acre				
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ American Rescue Plan Act (ARPA) of 2021</li> <li>▪ HUD’s Community Dev. Block Grants</li> <li>▪ FEMA Hazard Mitigation Grant Program (HMGP)</li> </ul>				
Project Estimated Timeline	1-3 years				
Priority Rating	High				
Potential Submission for RCCP Phase 3		Yes	◆	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

### Project Map



# TOWN OF AURORA / RICHLAND TOWNSHIP

## Aurora and Richland Township Master Plan

### Project Summary

Project Name	Aurora and Richland Township Master Plan				
Project Description	Develop a Master Plan for the Town of Aurora and the Richland Township, with focus on Climate Change and Growth. The master plan will incorporate: a. Equitable Opportunity, b. Zoning, c. Economic Development, d. Resiliency, Healthy, and Livable Community				
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding / Flood Zone</li> <li>▪ Storm Surge</li> <li>▪ Sea Level Rise</li> </ul>				
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy/Regulatory, Staffing, Funding & Resources, Emergency Services, Infrastructure, Nature-Based, Hybrid) <ul style="list-style-type: none"> <li>▪ Policy/Regulatory</li> </ul>				
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> </ul>				
Project Estimated Cost	\$60,000 - \$80,000				
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ Golden Leaf Foundation</li> <li>▪ BRIC</li> <li>▪ American Rescue Plan Act (ARPA) of 2021</li> </ul>				
Project Estimated Timeline	1-2 years				
Priority Rating	High				
Potential Submission for RCCP Phase 3		Yes	◆	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

### Project Map