

Subapplicant information

Name of federal agency **FEMA**
 Type of submission **Application**

ONWASA

228 GEORGETOWN RD
 JACKSONVILLE, NC 28540 United States

State	DUNS #	EIN #
NC	557245342	412139765

Subapplicant type **Local Government**
 Is the subapplicant subject to review by Executive Order 12372 Process? **No - Not selected**
 Is the subapplicant delinquent on any federal debt? **No**

Contact information

Subrecipient Authorized Representative (SAR)

Name	Primary phone	Mailing address
Dawn Taylor dtaylor@onwasa.com		

Point(s) of contact

Name	Primary phone	Additional phones	Mailing address
MR David M Mohr Chief Operations Officer dmohr@onwasa.com	9109377521 Work	9104550722 Work	228 Georgetown Road Jacksonville NC 28540
	Fax	6145316588	

Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community. When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
HOLLY RIDGE, TOWN OF	133	370575	N		3

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
NORTH TOPSAIL BEACH, TOWN OF	133	370466	Y	5	3
ONslow COUNTY*	133	370340	Y	8	1,3
RICHLANDS, TOWN OF	133	370341	N		2,3
SWANSBORO, TOWN OF	133	370179	N		1,3

Please provide any additional comments below (optional).

The Onslow Water and Sewer Authority (ONWASA) sewer system serves the unincorporated areas of Onslow County and the following municipalities: Holly Ridge, North Topsail Beach, Swansboro, Richlands and a small portion of Surf City. The Authority has a long-standing partnership with Marine Corps Installations – East and Marine Corps Base Camp Lejeune - with agreements in place for both sewer treatment and emergency water supply services.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Onslow County_Healthy Communities NC.pdf	11/18/2022	mglasscock@withersravenel.com	Community Attachments	Onslow healthy communities report	
Vulnerability Assessment NCORR RISE Eastern Carolina Region_Final 2022.pdf	11/18/2022	mglasscock@withersravenel.com	Community Attachments	RISE vulnerability assessment for region including Onslow County and ONWASA service areas	
Onslow County North Carolina - Census Bureau Profile.pdf	11/17/2022	mglasscock@withersravenel.com	Community Attachments	US Census for Onslow County	
ONWASA service areas.pdf	01/05/2023	mglasscock@withersravenel.com	Community Attachments	ONWASA service area map - rural communities	
Onslow County CDC SVI COVID-19 Vulnerabilities.pdf	01/05/2023	mglasscock@withersravenel.com	Community Attachments	Onslow County CDC SVI - COVID 19	
NorthCarolina2020_OnslowCounty_CDC SVI 2020.pdf	01/05/2023	mglasscock@withersravenel.com	Community Attachments	Onslow County CDC SVI 2020	
ONWASA Aerial Water Lines and Pump Station Relocation Technical Support Information.pdf	01/20/2023	mglasscock@withersravenel.com	Community Attachments	ONWASA Technical Supporting Information	

Mitigation plan

Please provide your plan information below.

Is the entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201?

Yes

Please provide plan detail

Plan name	Plan type	Plan approval date
Southeastern NC Hazard Mitigation Plan (2021)	Local Multijurisdictional Multi-Hazard Mitigation Plan	05/26/2021

Proposed activity description

This project will significantly reduce vulnerability of a portion of the ONWASA sewer system to severe weather events, protecting health and well-being of the service area. Costs from hurricane and severe rain events resulting in multiple days of emergency protective measures

and permanent work will also see significant reductions per event. The primary purpose of this project is to ensure long-term benefits for the populations served via enhanced mitigation through relocation.

Please provide any additional comments below (optional).

ONWASA currently owns and maintains seven treatment facilities and eight collection systems throughout the county. Coastal counties in North Carolina, as with Onslow County, are repeatedly exposed to stronger hurricane winds that increasingly result in greater property damage during a hurricane event. Rain storms impact the Mt. Pleasant Road Pump Station with greater frequency over time and ONWASA determined that the most cost-effective solution was to relocation this pump station entirely. This pump station sits right along the floodway with drainage into the White Oak River. Erosion and sedimentation controls have not been effective and are detrimental to the natural streambank in that area. Relocating this pump station mitigates the need to armor the streambank and allow nature to take its course. The Onslow Water and Sewer Authority (ONWASA) is a government entity that provides water and sewer services (wastewater) to the unincorporated areas of Onslow County which includes areas outside of the city limits of Jacksonville, all of the Town of Holly Springs, Town of Swansboro, Town of Richlands, as well as Town of North Topsail Beach. Onslow County remains repeatedly exposed to stronger hurricane wind, which can result in greater property damage during a hurricane event as well as increased flooding due to it's proximity to the New River.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Southeast NC HM Plan FEMA approved 2021.pdf	11/17/2022	mglasscock@withersravenel.com	Mitigation Plan Attachments	Hazard Mitigation regional plan	
Southeastern NC Regional (MJ) APP Letter 04-19-21.pdf	11/17/2022	mglasscock@withersravenel.com	Mitigation Plan Attachments	Approval letter from FEMA (2021)	
ONWASA Hazard Mitigation Plan Resolution Letter.pdf	01/06/2023	dmohr@onwasa.com	Mitigation Plan Attachments	HMP Resolution Letter	

Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

Mount Pleasant Road Pump Station Relocation

Activities

Primary activity type

Utility and infrastructure protection

Primary sub-activity type

Wastewater and/or sanitary sewer system

Primary sub-activity type

Wastewater and/or sanitary sewer system

Secondary activity type (Optional)

Relocation

Tertiary activity type (Optional)

Floodproofing

Tertiary sub-activity type

Dry floodproofing

Geographic areas description

The Mt. Pleasant pump station is part of the collection system serving the Town of Swansboro, NC and adjacent unincorporated areas. it is located on Mount Pleasant Road immediately adjacent to an unnamed tributary to the White Oak River. A map of the site is attached.

Community lifelines

Primary community lifeline

Primary sub-community lifeline

Secondary community lifeline (optional)

Hazard sources

Primary hazard source

Secondary hazard source (optional)

Tertiary hazard source (optional)

Is this a phased project?

Are you doing construction in this project?

Percentage of population impacted

Provide detailed description of population impacted

Provide a clear and detailed description of your proposed activity

How will the mitigation activity be implemented?

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage to property and/or loss of life in the project area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building

Health and medical

Public health

Infrastructure failure

Disease

No

Yes

100

The Mount Pleasant pump station serves approximately 500 people that make up the River Reach and Villages of Swansboro subdivisions. In the event of a failure, effluent would discharge to a tributary of the White Oak River and then the river itself, which makes up the Town of Swansboro waterfront with fishing access, marinas, and waterside businesses. The location of this pump station and potential impacts to the Town have been raised by the Town and they requested assistance from ONWASA as a partner to address the potential threat.

The goal of the Authority is to create a resilient, safe and sanitary sewer system that is prepared to withstand the severe storms exacerbated by the facility's location proximal to both the New River and the Atlantic coast. The proposed activity will construct a replacement pump station on an adjacent property away from the unnamed tributary and above the 100-year flood elevation at this location. The existing pump station site will then be decommissioned and demolished, and the stream bank restored.

ONWASA will utilize a professional engineering services firm, selected under a qualifications-based process, to assist with property acquisition, and complete final design / bidding document for the construction project to relocate the pump station. The project will be competitively bid in accordance with State and Federal requirements and, pending a successful bid result and approval by the ONWASA Board of Directors, a construction contract will be executed and the work completed. The engineering firm will observe the construction effort and certify the final project meets the requirements of the bidding documents and all permits. Elected officials from the county and five (5) local municipalities and ONWASA staff will keep local government partners informed of plans, timelines and progress. The ONWASA monthly newsletter will highlight this major projects and is distributed to all Authority customers. Specific information to be shared includes project description and budget, funding partnerships, anticipated and realized positive impacts throughout the process as well as health benefits and community continuing education. Design, permitting and bidding will be completed through one or more professional engineering services contracts executed by the Authority to support an ongoing capital improvement program. Firms work under master agreements for consulting services and are selected for contracts via a qualifications-based process in accordance with North Carolina State Statutes. The construction contract will then be competitively bid in accordance with state purchase and contract requirements. Pending a successful bid outcome and approval by the Board of Directors, construction contract(s) will be executed with one or more firms and the engineering firm will coordinate/observe the construction effort.

This project consists of complete replacement of an existing wastewater pump station with a new pump station, including wet well, valve vault, power/control panel, and emergency generator, at an alternate location. Construction of a new pump station is technically feasible in this area, as there are several other such stations in the vicinity and ONWASA maintains

codes; engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr flood protection with freeboard, 100-yr wind design, etc.):

more than seventy (70) similar stations across its collection systems. The risk to the existing pump station, caused by the nearby waterway and bank erosion, will be eliminated by this relocation. A preliminary site assessment and cost estimate previously completed for this project is attached. The project is based on goals from the Hurricane Matthew Resiliency Redevelopment Plan (2017) and the Southeastern Regional HM Plan, approved by FEMA in 2021: 1) reduce the risks from flood and erosion hazard; 2) avoid or reduce environmental impacts of flood hazard management and 2) reduce the long-term costs of flood hazard management that includes science-informed design parameters, practices, life/safety, flooding/freeboard, and related.

Who will manage and complete the mitigation activity?

The Authority's Engineering Manager and Project Manager positions, with the assistance of a professional engineering services firm under contract to the Authority as described previously.

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

Upon completion of the project the pump station will be relocated away from the identified hazard; the risk of a sudden wet well failure and uncontrolled discharge of wastewater into the White Oak River will be eliminated. While there may still be some threat from flood events above the 100-year frequency, new pump stations are designed with elevated controls and emergency power systems to help ensure continued operation even during severe storm events and extended power outages.

Does the mitigation activity incorporate nature-based solutions?

Yes

When will the mitigation activity take place?

Design, permitting, bidding and execution of construction contract(s) to complete all sites is anticipated to take 18 months from an authorization to proceed, and construction is estimated at 12 months total. this will allow completion within the 36-month period required for the grant. More detailed information is provided in the Schedule section of the application. It is important to note that the Authority plans to complete portions of the work during our off-peak time of year (November through April) to help minimize disruptions to customers.

Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?

As stated in the attached Technical Memorandum, an alternative to reinforce the stream bank adjacent to the existing pump station was considered during preliminary investigations. This option would require significant work within the waterway and have extensive regulatory permitting requirements, as well as leaving the station vulnerable to the same type of erosion from multiple or increasingly severe storm events. This, coupled with the overall poor condition of the existing pump station wet well / valve vault made the decision to relocate the pump station the best alternative.

Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?

The Authority will be responsible for long-term maintenance of the completed work. The result of the project will be a significantly reduced flood risk, system failures and health impacts. There will be no increased maintenance cost; rather, ONWASA will be able to reduce costs in relation to severe storms, sewer line ruptures and health or other emergency issues.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
NC Jacksonville area FRIS - long view 11-13-2022 for review.pdf	11/18/2022	mglasscock@withersravenel.com	Scope of Work Attachments	NC FRIS map - long view inclusive of ONWASA service areas showing proximity to river	
Site Plan.pdf	11/18/2022	dmohr@onwasa.com	Scope of Work Attachments	Site plan for project	
Implementation -ONWASA Mt. Pleasant Pump Station - Implementation Measures.docx	01/05/2023	mglasscock@withersravenel.com	Scope of Work Attachments	Implementation narrative	
Risk -ONWASA Mt Pleasant Pump Station - Risk Resiliency.docx	01/05/2023	mglasscock@withersravenel.com	Scope of Work Attachments	Risk Reduction narrative	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Population - ONWASA Mt. Pleasant Pump Station - Population Impacted.docx	01/05/2023	mglasscock@withersravenel.com	Scope of Work Attachments	Population narrative	
Outreach -ONWASA Mt. Pleasant Pump Station - Outreach Activities.docx	01/05/2023	mglasscock@withersravenel.com	Scope of Work Attachments	Outreach narrative	
ONWASA Aerial Water Lines and Pump Station Relocation Technical Support Information.pdf	01/20/2023	mglasscock@withersravenel.com	Scope of Work Attachments	ONWASA Technical Supporting Information	
TM_Mt Pleasant PS Evaluation_2022-23-09.pdf	01/23/2023	dmohr@onwasa.com	Scope of Work Attachments	No description given.	

Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name Professional Services & State Contracting	Start Month 1	Task Duration (in Months) 2 months
Task Description Prepare and execute contract for design, permitting, grant and construction administration services. NCDPS subrecipient grant contracting		
Task Name Design and Permitting	Start Month 3	Task Duration (in Months) 12 months
Task Description Site investigations, preliminary and final design services, permitting for all sites. Completion of permitting is the GO NO-GO milestone.		
Task Name Bidding and Contract Execution	Start Month 15	Task Duration (in Months) 3 months
Task Description Competitive bidding of construction contract(s), evaluation of bids, approval by ONWASA Board of Directors, execution of contract(s) and issuing Notice To Proceed.		
Task Name Construction	Start Month 19	Task Duration (in Months) 12 months
Task Description Construction through completion and contract close-out.		
Task Name BRIC Grant Close-Out	Start Month 31	Task Duration (in Months) 2 months
Task Description Final submittals/approvals, as required under grant award.		
Task Name Grant Administration	Start Month 1	Task Duration (in Months) 34 months
Task Description Monitoring, documentation and oversight/compliance of federal grant funds throughout the project cycle to closeout.		

Estimate the total duration of your proposed activities (in months).

34

Proposed project start and end dates

Start Date

2023-07-01

End Date

2025-06-01

Introduction**Project location**

Provide a detailed description of the proposed project's location.

Located in Onslow County, north of the Town of Swansboro at 1226 Mount Pleasant Road. See attached map.

Latitude

34.701000

Longitude

-077.119000

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Site Plan.pdf	11/18/2022	dmoehr@onwasa.com	Project Location Attachments	Site plan	
Onslow County and ONWASA brief 11-2022.pdf	11/18/2022	mglasscock@withersravenel.com	Project Location Attachments	Onslow County and ONWASA brief	

Project benefiting area

Provide a detailed description of the proposed project's benefiting area.

The benefitting area for this project is considered the 350 residences that are served by the collection system that terminates at this pumping station, as well as the areas of the White Oak River downstream of the site (including the downtown area of the Town of Swansboro) that would be directly impacted by an uncontrolled wastewater discharge

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
ONWASA service areas.pdf	01/05/2023	mglasscock@withersravenel.com	Location project benefiting area Attachments	ONWASA's service area map for water and sewer services	

Project impact area

Provide a detailed description of the proposed project's impact area.

The Project impact area is area is the same as the Project benefiting area listed above.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project site inventory

Does this project subapplication propose to mitigate a property/structure(s)? (Examples: residential home, commercial building, bridge, fire station, levee, pumping station, wastewater treatment plant, telephone pole, electric line, etc.)

Yes

Please describe how the propert(ies) will be selected upon subgrant approval. (Example: Saferoom Lottery Project, Fix the Bricks Project)

Please [download the excel template](#), and then fill out the template with building or infrastructure data.

Enter the location of the property/structure.

List of location(s) (1 location)

Status	Location ID	Address	Inventory type	Structure type	Mitigation action
✓	49468	1226 Mount Pleasant Road , Swansboro, NC, Onslow, 28584	Infrastructure/Utility/other	Wastewater	Relocation

Budget

Budget cost estimate should directly link to your scope of work and work schedule. You must add at least one item(s) greater than 0 for your cost estimate. As necessary, please adjust your federal/non-federal cost shares, and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

First, click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate.

Grand total: \$1,237,005.00

Budget type: Construction

▶	Cost type: Cost estimate	\$1,178,100.00
▶	Cost type: Management cost	\$58,905.00

Program income (optional)

Cost share

Cost share or matching means the portion of project costs not paid by federal funds.

Proposed federal vs. non-federal funding shares

Hazard mitigation assistance (HMA) funds may be used to pay up to 75% federal share of the eligible activity costs. Building Resilient Infrastructure and Communities (BRIC) and small impoverished communities may be eligible for up to 90% federal share. Flood Mitigation Assistance (FMA) and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share.

Is this an Economically Disadvantaged Rural Community? This determines your federal/non-federal share ratio. No		% Percentage	* Dollar amount
	Proposed federal share	71.43	883605.00
	Proposed non-federal share	28.57	353400.00
		Based on total budget cost: \$1,237,005.00	

Non-federal funding sources here

That portion of the total costs of the program provided by the non-federal entity in the form of in-kind donations or cash match received from third parties or contributed by the agency. In-kind contributions must be provided and cash expended during the project period along with federal funds to satisfy the matching requirements.

Funding source	Funding amount	% Non-federal share by source
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<p>▸ Funding source: Onslow Water and Sewer Authority Fund Balance</p>	100.00%	\$353,400.00
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Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
ONWASA WSMBE Policy.pdf	11/17/2022	mglasscock@withersravenel.com	BudgetAttachments	WSMBE policy	
Local Match Commitment Letter - Mount Pleasant Pump Station.pdf	01/20/2023	dmohr@onwasa.com	BudgetAttachments	Matching Funds Letter	
Mt Pleasant Updated Cost Estimate 01.23.2023.pdf	01/23/2023	dmohr@onwasa.com	BudgetAttachments	No description given.	

Cost-effectiveness

How was cost-effectiveness determined for this project?

- BCA completed in FEMA's BCA toolkit
Subapplicant must attach supporting documentation.
- Pre-calculated benefits
- Substantial damage in special flood hazard area
- Other BCA methodology approved by FEMA in writing
- Not applicable
- Not applicable

What are the total project benefits? (\$)	1437724
What are the total project cost? (\$)	1238767
What is the benefit-cost ratio (BCR) for the entire project?	1.16
Was sea level rise incorporated into the flood elevations in the BCA?	Yes
Were environmental benefits added to the project benefits?	Yes
Were social benefits added to the project benefits?	Yes

Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Letter of Intent Form Completed S112.pdf	11/17/2022	mglasscock@withersravenel.com	Cost Effectiveness Attachments	Letter of intention	
ONWASA Pump Station Relo BCA 2022.pdf	01/02/2023	mglasscock@withersravenel.com	Cost Effectiveness Attachments	Pump Station Relo 2022	
ONWASA Pump Station Relo BCA 2022.xlsx	01/02/2023	mglasscock@withersravenel.com	Cost Effectiveness Attachments	Pump Station Relo 2022	

Environmental/Historic Preservation (EHP) Review Information

Introduction

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested. FEMA will complete this review with the assistance of both the state or tribal government and the local applicant. It is important that you provide accurate information. If you are having problems completing this section, please contact your application point of contact.

A. National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- The property address and original date of construction for each property affected (unless this information is already noted in the Properties section).
- A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly).
- A diagram or USGS 1:24,000 scale quadrangle map displaying the relationship of the property (s) to the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Information gathered about potential historic properties in the project area, including any evidence indicating the age of the building or structure and presence of buildings or structures that are listed or eligible for listing on the National Register of Historic Places or within or near a National Register listed or eligible historic district. Sources for this information may include the State Historic Preservation Officer, and/or the Tribal Historic Preservation Officer (SHPO/THPO), your local planning office, historic preservation organization, or historical society.
- Consideration of how the project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures. Please address and note associated costs in your project budget.
- For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or flood proofing as alternatives to demolition.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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B. National Historic Preservation Act - Archeological Resources

Does your project involve disturbance of ground? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- A description of the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location.
- The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Any information about potential historic properties, including archeological sites, in the project area. Sources of this information may include SHPO/THPO, and/or the Tribe's cultural resources contact if no THPO is designated. Include, if possible, a map showing the relation of any identified historic properties to the project area.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action

C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

Information you obtained to identify species in or near the project area. Provide the source and date of the information cited.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Any request for information and associated response from the USFWS, the National Marine Fisheries Service (NMFS) (for affected ocean-going fish), or your State Wildlife Agency, regarding potential listed species present and potential of the project to impact those species.

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

2. Does your project remove or affect vegetation? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

Description of the amount (area) and type of vegetation to be removed or affected.

A site map showing the project area and the extent of vegetation affected.

Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water? **No**

If Yes, and project is not within an existing building, you must confirm that you have provided the following: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

A USGS 1:24,000 scale quadrangle map showing the project activities in relation to all nearby water bodies (within 200 feet).

Any information about the type of water body nearby including: its dimensions, the proximity of the project activity to the water body, and the expected and possible changes to the water body, if any. Identify all water bodies regardless whether you think there may be an effect.

A photograph or digital image of the site showing both the body of water and the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Evidence of any discussions with the US Fish and Wildlife Service (USFWS), and/or your State Wildlife Agency concerning any potential impacts if there is the potential for the project to affect any water body.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as 'waters of the U.S.' as identified by the US Army Corps of Engineers or on the National Wetland Inventory? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Documentation of the project location on a USGS 1:24,000 scale topographic map or image.
- A copy of a National Wetlands Inventory map or other available wetlands mapping information.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Request for information and response letter from the US Army Corps of Engineers and/or state resource agencies regarding the potential for wetlands, and applicability of permitting requirements.
- Evidence of alternatives considered to eliminate or minimize impacts to wetland.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Need wetlands area map. Both NC F&W and NC One were down when I tried.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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E. Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 1% annual chance floodplain, a 0.2% annual chance floodplain, a regulatory floodway, or an area prone to flooding? **Yes**

Please explain in the text box below and/or provide any documentation to identify the means or the alternatives considered to eliminate or minimize impacts to floodplains (See the 8 step process found in 44 CFR Part 9.6.) to help FEMA evaluate the impact of the project:

Relocation of the pump station out of the floodplain will eliminate any impacts caused by the existing structure.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation? **No**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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F. Coastal Zone Management Act

1. Is the project located in the state's designated coastal zone? **No**

G. Farmland Protection Policy Act

1. Will the project convert more than 5 acres of prime or unique farmland outside city limits to a non-agricultural use? **No**

H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project? **No**
2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project? **No**
3. Does any project construction or operation activities involve the use of hazardous or toxic materials? **No**
4. Do you know if any of the current or past land-uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials? **No**

I. Executive Order 12898, Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect or adjacent to the project area? **No**

J. Other Environmental/Historic Preservation Laws or Issues

1. Are there other environmental/historic preservation requirements associated with this project that you are aware of? **No**
2. Are there controversial issues associated with this project? **No**
3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project? **No**

K. Summary and Cost of Potential Impacts

- Having answered the questions in parts A. through J., have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties? **No**

Evaluation

- Is the applicant participating in the [Community Rating System \(CRS\)](#)? **Yes**
- Select rating. **7**
- Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **Yes**
- Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance? **No**
- Has the applicant adopted building codes consistent with the [international codes](#)? **Yes**
- Year of building code **2015**
- Please provide the building code. **State of North Carolina**
- Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)? **No**
- Describe involvement of partners to enhance the mitigation activity outcome. **The Authority will work with multiple State Agency partners to ensure the success of this project, including: the North Carolina Department of Environmental Quality (NCDEQ), Division of Water Resources to ensure the**

project is completed in accordance with water distribution system design/construction requirements; NCDEQ Division of Coastal Management to avoid adverse impacts to coastal resources and maintain compliance with the state's Coastal Area Management Act. In addition to those noted, project progress will be regularly reported to the local governments within Onslow County through their representatives that sit on the Authority's Board of Directors and will be communicated by the public access television station Channel G10 as well as social media and the ONWASA Web site and service area customers in their mailings or emails.

Discuss how anticipated future conditions are addressed by this project.

The anticipated future conditions relevant to the project include the increase in the number of severe weather events as a result of global climate change, as well as the continued increase in population in this region resulting from in-migration and urbanization. When completed, the project will result in a sewage pump station that is protected from the threat of damage posed by severe rain events, including hurricanes. This ensures health and safety for our community during weather events and that our communities sewer costs remain as low as possible.

Additional comments (optional)

The Building Code information provided above is from Onslow County. The Authority complies with all municipal or county building code requirements as appropriate to the location and type of project being completed.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Vulnerability Assessment NCORR RISE Eastern Carolina Region_Final 2022.pdf	11/18/2022	mglasscock@withersravenel.com	Evaluation Attachments	Mention of Onslow County regional impacts - RISE assessment for region	
HazardReport_OnslowCounty.pdf	01/05/2023	mglasscock@withersravenel.com	Evaluation Attachments	CMRA Climate Hazard Report	
Partners -ONWASA Mt. Pleasant Pump Station - Leveraging Partners.docx	01/05/2023	mglasscock@withersravenel.com	Evaluation Attachments	Partnerships narrative	
Climate - ONWASA Mt. Pleasant Pump Station - Climate-Future.docx	01/05/2023	mglasscock@withersravenel.com	Evaluation Attachments	Climate narrative	
ONWASA Aerial Water Lines and Pump Station Relocation Technical Support Information.pdf	01/20/2023	mglasscock@withersravenel.com	Evaluation Attachments	ONWASA Technical Supporting Information	

Comments & attachments

- ▶ **Community** 1 comment, 7 attachments
- ▶ **Mitigation plan** 1 comment, 3 attachments
- ▶ **Scope of work** 0 comment, 8 attachments
- ▶ **Budget** 0 comment, 3 attachments
- ▶ **Cost-effectiveness** 0 comment, 3 attachments
- ▶ **Evaluation** 1 comment, 5 attachments
- ▶ **Environmental/Historic Preservation (EHP)** 0 comment, 0 attachments
- ▶ **Location** 0 comment, 3 attachments

Assurances and certifications

OMB Number: 4040-0009, Expiration Date: 02/28/2025 [View burden statement](#)

SF-424D: Assurances - Construction Programs

Content:

OMB Number: 4040-0009

Expiration Date: 02/28/2025

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure nondiscrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a--1 et seq.).

18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

Certifications regarding lobbying

OMB Number: 4040-0013

Expiration Date: 02/28/2025

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.