

Grantee: Virginia

Grant: B-13-DS-51-0001

July 1, 2021 thru September 30, 2021 Performance

Grant Number:

B-13-DS-51-0001

Obligation Date:**Award Date:****Grantee Name:**

Virginia

Contract End Date:**Review by HUD:**

Reviewed and Approved

Grant Award Amount:

\$120,549,000.00

Grant Status:

Active

QPR Contact:

No QPR Contact Found

LOCCS Authorized Amount:

\$120,549,000.00

Estimated PI/RL Funds:

\$20,000.00

Total Budget:

\$120,569,000.00

Disasters:

Declaration Number

No Disasters Found

Narratives

Executive Summary:

The Commonwealth of Virginia has embraced the opportunity to apply to the US Housing and Urban Development's (HUD) National Disaster Resiliency Competition (NDRC). Virginia seeks to: (1) address unmet recovery needs in the most impacted and distressed areas of its Hampton Roads region, which suffered damage from the qualifying disaster, Hurricane Irene, in 2011, and (2) facilitate the longer-term resilience of the region in response to extreme weather events, recurrent flooding, and sea level rise. Innovation is found in Virginia's holistic regional resiliency approach that extends beyond infrastructure to encompass community and economic development. That is, the development of infrastructure and water management approaches will be informed by, and work in concert with, enhancing the health and wellbeing of citizens and stimulating economic growth. We will be building resilience in our population and leverage these changes as an economic accelerator. This innovative living with water approach, called "thRIVE: Resilience In Virginia," aligns with HUD's National Objective to directly benefit low- and moderate-income persons and households by focusing on unmet recovery needs, as well as build regional resilience capacity to manage extreme weather events and adapt to sea level rise.

Governor Terry McAuliffe has selected the Commonwealth's Department of Housing and Community Development (DHCD) to coordinate development of its NDRC application. DHCD encompasses a wide range of services and frequently collaborates across disciplines to serve vulnerable populations. The agency has partnered with state, regional and local government, academia, business and nonprofit entities to design an approach that will cultivate resilience. Under the leadership of DHCD, the Commonwealth, its qualifying localities and stakeholders have collaborated to create such an approach to resilience. Since Phase II of the NDRC competition, HUD has awarded the Commonwealth of Virginia \$120,549,000 to implement Norfolk's Ohio Creek Watershed project and a Business Incubator / Accelerator (called Coastal Community Resilience, Inc. doing business as RISE) to support resiliency efforts and spur economic development for the entire region. In addition to NDRC HUD award, between Norfolk and the Commonwealth of Virginia \$69,232,862 in Direct Leverage and \$70,923,836 in Supporting Leverage has been committed to the region and the commonwealth's various resiliency efforts.

Rising sea level and increasing frequency and severity of storms and rain will necessitate the redesign of coastal communities to more effectively manage water. This redesign provides an opportunity for cities, like Norfolk to use water and water management system (to block, hold, channel, absorb, clean and release water) as catalysts to economic development and community revitalization. The Ohio Creek Watershed project selected for the NDRC funding involves a layered approach to dealing with the impact of flooding and sea level rise in a coastal area. The project will show how green and grey infrastructure, working together can create a community that can live with water in a future of rising tides.

RISE's mission is to accelerate global market activity by developing a regional "living laboratory" to test innovation, and to facilitate partnerships and collaboration in the resilience and coastal adaptation fields that lead to economic growth in the Hampton Roads region.

See Supplemental Document for DHCD's Fair Housing Policy Virginia's under the Administration Activity (01-NDR-ADMIN01).

MID-URN Areas:

The Ohio Creek Watershed project located in the city of Norfolk was selected for the NDRC funding. The area contains census tracts 46 and 47 which include two fully built-out neighborhoods of Grandy Village and Chesterfield Heights. The area is bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. The area contains a total population of 3,270 persons. Of this population, approximately 76% households are LMI.

In this area Norfolk will use the increasing exposure to significant flood and rising sea levels that necessitates physical change as an opportunity to remake the landscape to live and thrive with water. Both neighborhoods and surrounding areas experience regular flooding from river water washing over the coast line and heavy precipitation events. In this area, as in many others in the region, river water is pushed up the drainage system in storms, flooding low-lying areas and preventing rainfall from draining out of neighborhoods. Even during normal tide conditions in the river, these very old, undersized and



submerged storm water pipes cannot convey run-off to the river in one of the increasingly frequent heavy rainfalls. The result is water ponding in streets, sidewalks and residents' basements on a monthly basis. In extreme high tides with heavy rains, streets in the area are impassable and houses flood. During Norfolk's multi-year community engagement process, "residents were clear" that the areas' additional unmet needs for resilience go beyond repair to water damage from Hurricane Irene to include their physical, economic, and social disconnection from the rest of the city. Residents further identified concentrated poverty, environmental degradation, risk to historic housing and lack of access to waterfront parks and other amenities among key challenges.

To address the area challenges, the Ohio Creek project will implement distributed, replicable, and community-oriented approach to resiliency. It includes a system of innovative parcel- street- and neighborhood-level solutions such as green and grey infrastructure projects combined with the development of coastal living shoreline to address the area's current and future flooding issues. In addition, this integrated flood control system will make coastal residents active participants in water management, create green spaces to hold and absorb excess water while filtering it to remove pollutants, and create natural walking trails that reconnect the neighborhoods. The expanded green and open space needed to hold water will provide residents with recreational amenities, creating neighborhoods where people choose to live. Residents are working with City staff to ensure that the grant does more than just improve the infrastructure, but ensures connectivity, economic opportunity and amenities for all the residents of the neighborhood and the city. While the adjacent Newton's Creek Watershed project was not selected for the NDRC funding, the City and its partners are committed to implementing the plan proposed in the NDRC application over the long term. The adjacent Newton's Creek Watershed will also continue to be part of the overall NDRC program due to its hydrological interconnectivity with the NDRC-funded census tract 47 located in the Ohio Creek project area.

RISE, the second project selected for the NDRC funding, will serve as a regional economic development center that supports technical and organizational to help businesses respond to sea level rise, recurrent flooding, and extreme weather events while ensuring access to and better management of water resources. RISE's vision is to position Hampton Roads as the global leader in addressing these threats by developing strategies, policies, and products that allow the region to continue to grow.

Key Agencies, Partners, Positions, Personnel:

THE COMMONWEALTH OF VIRGINIA. The Commonwealth of Virginia brings many years of proven experience successfully managing disaster recovery to its National Disaster Resilience Competition (NDRC) grant funding application. Virginia ranges from the Blue Ridge Mountains to the Chesapeake Bay, and this geographical diversity engenders a variety of natural disasters including hurricanes, tornadoes, severe winter storms, and geological hazards like landslides and earthquakes. Within the Hampton Roads region, a main consequence of weather disasters is flooding. Virginia must also be prepared for manmade threats, such as radiological and HazMat problems, and terrorist incidents, given its concentrations of military installations, and major port and rail operations.

The Virginia Department of Emergency Management (VDEM) is responsible for disaster management and building resiliency, including assessing vulnerabilities, mitigating hazards, planning and coordinating assets and resources, and emergency services. Critical skills for resilient disaster recovery include: the ability to assess vulnerability and define needs; to identify long-term resilient solutions; to conduct a Benefit-Cost Analysis; knowledge of construction and GIS; program and fiscal management experience; ability to interpret state/federal regulations; and communication skills for planning and outreach to citizens.

Historically, Virginia's mitigation programs have assisted communities by sponsoring individuals for projects like acquisition of flood-prone properties, elevations of homes, flood-proofing of businesses, and localized storm water management projects, and the state typically provides 20% of the 25% required non-federal match for mitigation projects. Per FEMA, on average, every dollar spent on mitigation returns four dollars, excluding community and business continuity, environmental benefits, or the homeowner benefit of lower flood insurance costs. Virginia has awarded localities and Planning District Commissions over \$33,000,000 in total project costs through FEMA disaster and non-disaster grants since August 2012. Based on the FEMA measure, the value of direct mitigation for the last three years exceeds \$132,000,000.

Addressing Climate Change and Sea Level Rise. In 2008, Governor Tim Kaine created the Virginia Commission on Climate Change to study climate change, increasing extreme weather events, and SLR. It found a decline or disappearance of key Chesapeake Bay species, increased damage from more frequent and severe storms, and the spread of vector-borne diseases like West Nile virus.

In July 2014, the current governor, Terry McAuliffe, convened the Governor's Climate Change and Resiliency Update Commission, which developed these recommendations: 1) Establish a Climate Change and Resilience Resource Center, 2) Create a Virginia Trust for Energy and Resilience, 3) Establish a renewable energy procurement target for Commonwealth agencies, 4) Adopt a zero emission vehicle program, and 5) Leverage federal funding to make coastal communities more resilient. Decision-making is also informed by the Secure Commonwealth Panel's Recurrent Flooding Subpanel, the Center for Coastal Resources Management at Virginia Institute of Marine Science (VIMS), the Coastal Policy Clinic at William & Mary Program, and the Floodplain Management Program.

Additional Actions. In 201y of Public Safety and Homeland Security, Brian Moran, as the Commonwealth's first Chief Resiliency Officer and the single point of contact for resiliency issues. Secretary Moran's office subsequently began to revamp emergency planning and disaster relief in eastern Virginia, addressing deficiencies identified by the governor.

Innovation and Entrepreneurship. Virginia also recognizes the critical role of the economy in building resiliency. Virginia universities generated 1.94 startups per million residents in 2013, and Governor McAuliffe has made building a strong entrepreneurship support system a priority. Recently, the Governor announced the winners of the first-ever Virginia Velocity Business Plan Competition, which provided \$850,000 to five bioscience and energy companies planning to expand their business in Virginia.

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT (DHCD). Governor McAuliffe has designated the Virginia Department of Housing and Community Development (DHCD) as the lead agency for Virginia's NDRC application. DHCD has significant experience with major projects and will also serve as grant administrator and project implementation manager upon award. As the primary point of contact for programmatic and contractual obligations, DHCD will be responsible for grant oversight, fiscal and budgetary controls, and inter-community coordination.

DHCD partners with Virginia communities to develop their economic potential, regulates the state's building and fire codes, provides training and certification for building officials, and invests more than \$100M each year into housing and community development projects throughout the state - and most are designed to support low-to-moderate income citizens. The department also runs a number of programs aimed at preventing homelessness and advancing homeownership, and provides a range of multi-purpose community development grants for a variety of community needs

Past Experience of the Applicant. DHCD is committed to creating safe, affordable, and prosperous communities in which to live, work and do business in Virginia. The agency strategically invests financial and technical resources into affordable housing and development projects to attract private sector development and further investment. By promoting regional economic collaborations in economically distressed areas, DHCD stimulates job creation, builds community capacity, and empowers residents. DHCD also supports small business and entrepreneurs, incorporating community assets into revitalization strategies to restructure economies and create vibrant and competitive communities.

The agency serves many of Virginia's most vulnerable individuals, including the homeless and special needs populations, and collaborates with partners to offer more creative community-based housing response systems and to provide integrated community housing options for persons with intellectual, developmental, and physical disabilities.

General Administrative Capacity: DHCD has extensive experience managing federal resources, including HUD-funded programs to such as the HOME, the State Community Development Block Grant Program (CDBG), Neighborhood Stabilization, Emergency Solutions, Housing Opportunities for Persons with AIDS, and when appropriated, DisasterRecovery, and



logwthofrdealfnepormsicudnWahrzton Assistance, Low-Income Home Energy Assistance Program, and the Rural Community Development Initiative. DHDC staff are well-equipped to navigate federal crosscutting and housing-related requirements, including the Environmental Review Process, Section 3, Labor Standards, Lead, the Uniform Allocation Act, and Fair Housing. Staff have significant experience working in both the Integrated Disbursement and Information System, and the Disaster Recovery Grant Reporting System, and are cross-trained to provide back-up coverage as needed. DHCD staff are currently working with the Council of State Community Development Agencies and HUD on the development of an Affirmatively Furthering Fair Housing assessment tool for use by states.

The HUD Neighborhood Stabilization Program (NSP) is a high profile program developed to help communities stabilize neighborhoods impacted by foreclosure and abandonment that illustrates DHCD's ability to effectively carry out a highly leveraged, time-sensitive priority program. The Virginia NSP successfully acquired, rehabilitated, and resold over 300 homes, generating close to \$50M in program income that is reinvested to sustain program operation. DHCD provided resources and coordinated the efforts of 25 local governments and nonprofits that assist homeowners facing foreclosure.

Another program, the Virginia Enterprise Zone, a state and local government partnership, incentivizes job creation and private investment in designated Virginia Enterprise Zones. In 2014, it attracted \$245.6M in new private investments in distressed communities, a 21 % increase over 2013.

Cross Disciplinary Capacity. DHCD is responsible for managing state CDBG funds, federal and state housing programs, disaster recovery assignments, and other major federal and state programs; all require cross-disciplinary work. Agency projects depend on effective coordination of multiple public and private sector functions, teams, and disciplines, including planning, design, engineering, environmental, and socio-economic approaches. DHCD also oversees many of Virginia's storm disaster management, public works, environmental quality, building and fire code regulation, and economic revitalization projects.

DHCD's approach to the innovative Building Collaborative Communities program coordinates the resources of multiple state agencies, private sector partners, educational institutions, community groups, and individuals. These partners focus on strategic economic development outcomes, such as job creation, economic development, and increasing community capacity and leadership in economically distressed areas.

Experience with Collaboration and Coordination for Large Projects. DHCD's approach to project management emphasizes the involvement of project stakeholders who are directly affected by the project. Citizen participation is key to the team's success, and each management team includes area residents. DHCD is an active member of the team and facilitates development of the project work plan and contract.

An example of a large-scale community revitalization development strategy and systems change is DHCD's leadership in transforming delivery of homeless services from a strictly shelter-based system to a collaborative community-based system that is responsive to emergency homelessness.

As a result, homelessness decreased by 23% from 2010 to 2015 as did family homelessness. Veteran homelessness decreased by 31% from 2012 to 2015. This successful transformation of its homeless services system is a national model: community based solutions and rapid re-housing have functionally ended veteran homelessness in Virginia.

Technical Capacity. DHCD encompasses a wide range of programs and services, and its technical capacity is unusually broad. In addition to the community-based programs previously described, DHCD understands the need of vulnerable populations. For example, the HOME Affordable and Special Needs Housing program preserves housing for low-income persons; LMI renters and homeowners are assisted through the Down Payment Assistance, Savers, and Emergency Home and Accessibility Repair programs; and business start-up and revitalization is supported via the Community Business Launch, CDBG, and Industrialized Revitalization Fund programs. DHCD also has oversight of the Virginia Uniform Statewide Building Code and the Virginia Statewide Fire Prevention Code, and promotes incentives available for Green-Building and Energy Efficiency. Virginia is recognized by the Insurance Institute for Business & Home Safety as having the top-rated building codes among hurricane prone states.

DHCD's program experience has made the agency nimble. When DHCD Weatherization Assistance Program funding increased almost overnight from roughly \$10M to \$100M, DHCD quickly ramped up its delivery system, adding staff and increasing local provider capacity. While developing a more robust training center, the agency established new partnerships with the community college system to quickly prepare the necessary workforce. Innovations such as a new centralized and coordinated system facilitated application intake and review, project and budget management, invoicing and reporting, transparency and efficiency. DHCD will draw on this flexibility in administering NRDC grant funding.

Capacity for Community Engagement and Inclusiveness. Through its administration of HUD and other social service programs, DHCD regularly works with vulnerable and special needs populations. Most DHCD-administered programs require public participation, and the agency holds public meetings that encourage citizens to participate in the process. Community-based meetings are widely publicized through local advertisements, flyers, outreach through faith-based organizations, and public notices.

VDHCD Management Team and Key Staff. The following individuals are key management positions responsible for the day-to-day operations, implementation, and monitoring of the CDBG-NDR projects. DHCD's relevant management structure includes:

Bill Shelton, Director of the Virginia DHCD
Pam Kestner, Deputy Director of Housing
Willie Fobbs, Associate Director of Housing
Traci Munyan, Resiliency Program Manager
Lee Hutchinson, Resiliency Program Analyst

THE HAMPTON ROADS REGION. The Commonwealth of Virginia will pilot strategies to build resilience in the Hampton Roads Region of southeastern Virginia, where its citizens face recurrent flooding and the second fastest rate of SLR on the East Coast. This vitally important area takes its name from the large sheltered harbor, "Hampton Roads" (formerly Radsead, where the tidal river, the York, James, Nansemond, Elizabeth, and Lafayette rivers converge at the mouth of the Chesapeake Bay, where six of the seven cities that surround the harbor: Newport News, Hampton, Portsmouth, Norfolk, Suffolk, Chesapeake, and Virginia Beach. This strategic location makes the region economically critical to the Commonwealth: it is home to both Naval Station Norfolk, the largest naval base in the world, and the Port of Virginia, the largest ship building and repair complex in US. Hampton Roads is a nexus of trade for the eastern third of the US and a security center for the world. While Virginia may not partner with federal entities for the NDRC, the military is nonetheless an informal partner, and resilience efforts are well coordinated at state, regional and local levels with military commands in Hampton Roads.

Hampton Roads Planning District Commission (HRPDC). As the regional planning agency for 17 local government members, HRPDC has regularly convened localities to discuss coastal flooding and SLR adaptation since 2008. In March 2014, HRPDC created a Special Regional Committee on Recurrent Flooding and Sea Level Rise to foster resilience on a regional scale. Committee members represent Hampton Roads localities, universities, the Army Corps of Engineers, and numerous environmental organizations. In December 2014, the regional group approved a proposed resolution to encourage localities to adopt new freeboard requirements. Currently, HRPDC is developing Hampton Roads' first regional strategic plan, Envision Hampton Roads, based on extensive community input. The HRPDC is well-positioned to coordinate and support public participation in a regional resilience dialogue.

Regional collaboration has been further advanced by the June 2015 "Virginia Dutch Dialogues" workshop, modeled on a workshop held in post-Hurricane Katrina New Orleans. Sponsored by the Dutch Embassy and supported by a four-month regional preparation process, the cross-disciplinary workshop was an intensive, multi-day event with over 60 regional stakeholders, including Norfolk, Hampton, Newport News, HRPDC, regional universities, and community organizations.

CITY OF NORFOLK. Partner's Past Experience. Norfolk is the second largest city in Virginia and has been a key part of America's history, commerce, and innovation, most recently as a national leader in the field of resilience. In 2008, Norfolk city administrators began to analyze its re-current flooding and SLR issues, and completed a citywide assessment to help prioritize problem areas, identify potential flooding scenarios, and define objectives for various remediation flood defense improvements. The next year, a severe Nor'easter confirmed that flood defense and mitigation is a critical issue for Norfolk.



Flooding was formally acknowledged as a main priority in 2011 with the establishment of Team Norfolk, which drew members from across all sectors: public, private, nonprofit, higher education and military. Over the next two years, Team Norfolk produced the first effort at a comprehensive, community-wide approach to preparedness and resilience. The group meets monthly, continuing its cross sector resilience collaboration.

Norfolk has actively sought funding to increase resilience and successfully applied to the first round of the Rockefeller Foundations 100 Resilient Cities (100RC) Initiative in 2013. The two year 100RC grant provides a wealth of resources, including funding for Norfolk's first (and only) Chief Resilience Officer (CRO), access to renowned international experts, and membership in a cohort of global cities with similar challenges. Norfolk's 100RC efforts focused on analyzing the city's three major challenges: SLR and recurrent flooding; a shifting economy, and a need to build strong, healthy neighborhoods. The CRO and her team conducted extensive research and consultations, engaging stakeholders to understand the city's needs, challenges and opportunities. The project culminated in October 2015, with the launch of Norfolk's Resilience Strategy, which will guide the city in its shift to a successful coastal community of the future.

Norfolk also partnered with Sandia National Laboratories to assess the potential economic impact of a severe storm on the region's key assets and on the resultant economic impact on the nation. This far reaching research has helped to inform planning for SLR in Norfolk and the Hampton Roads region. Funding for Virginia's proposed NDRC projects will support Norfolk in pursuing its new Resilience Strategy, as well as collaboration with neighboring cities to improve resilience at the regional level.

Cross Disciplinary Capacity. Norfolk routinely coordinates implementation of its wetland and shoreline restoration projects, as well as hard infrastructure projects, with federal, regional and local partners such as the US Army Corps of Engineers (USACE) and the Elizabeth River Project. The city also has extensive experience with successful neighborhood revitalization and affordable housing through its long partnership with the Norfolk Redevelopment and Housing Authority (NHRA).

Technical Capacity. Norfolk has a long record of successfully implementing a variety of projects similar in scale, scope and complexity to those the Commonwealth proposes. The city's Department of Public Works, in close collaboration with Norfolk's Resilience Office, will primarily be responsible for NDRC project management. In the past three years, Public Works has managed \$267M in infrastructure projects, including construction of the Court House and the flagship Slover Library. Since Hurricane Irene, the city's storm water department completed 27 storm water-related Capital Improvement Projects (CIP) and city-wide flood vulnerability assessments valued at over \$17M. Norfolk invested \$3.5M to raise a tidal flood-prone arterial road to the Midtown Tunnel and ensure the Sentara Norfolk Hospital complex, the area's only level-one trauma center, is accessible during flooding. The city further improved resiliency by tripling its wetland areas from 60,846 ft² in 2011, to 217,070 ft² in 2014. Since September 2014, the city has also undertaken several major living shoreline restoration projects valued at over \$9.3M, with pathway elevations that are a recreational amenity.

Capacity for Community Engagement and Inclusiveness. The City of Norfolk ensures input from residents, especially low income and other vulnerable residents, through extensive outreach via full-time Neighborhood Specialists who are assigned to city neighborhoods. Recent examples of extensive stakeholder engagement include a 100RC resilience assessment, new bikeway master plan, online code revision, and the design of five new public schools. In the Hesterfield Heights target area, Norfolk is building on a community-led design initiative by regional partners Wetlands Watch Hampton University, and Old Dominion University as the foundation for the proposed new water management design.

Management Team and Key Staff. Management positions and staff responsible for day-to-day operations, implementation, and monitoring CDBG-NDRC projects include:

City of Norfolk Staff:

Christine Morris, Chief Resilience Officer, will be responsible for the overall program management. She has over 25 years' experience in community development and revitalization. The CRO's Office will be an integral part of the project management team.

Katerina Oskarsson, Ph.D., Deputy Resilience Officer, will assist CRO with the overall program management.

David Ricks, P.E., Director of Public Works, will oversee project management. He has over 34 years in both program and construction management, infrastructure planning, and financial administration

Scott Smith, PE, LS, Coastal Resilience Manager, will be responsible for project management. He has over 28 years of extensive experience in storm water management, infrastructure design, and construction.

Karen Colombo, Manager of Budget & Accounting, Public Works Department, will manage financial aspects of the grant administration.

Shenette Felton, Assistant Director, Finance Department, will manage financial aspects of the grant administration.

Key Consultant Staff:

Amy Courville, Project Manager, CB&I, and her team will assist the City with the overall project management, including communications and project team coordination, administration of project management software, schedule development, timesheet and budget tracking

Phillip Kash, Project Manager, HR&A Advisors, and its main sub-contractor GCR will assist the City with CDBG-DR/NDRC regulatory compliance, CDBG administration, development of organization framework, financing strategies, and project design.

Kyle Graham, Project Manager, Arcadis and its main sub-contractor Waggonner & Ball represented by David Waggonner, Design Director, will be responsible for design and engineering services.

Chris Frye, Project Manager, VHB, will assist the City with environmental review services.

RISE

Partner's Past Experience. RISE is a no-profit organization establishing a series of strategic initiatives in the resilience field. RISE's vision is to position Hampton Roads as the global leader in addressing the impacts of sea level rise, recurrent flooding, and extreme weather events by developing strategies, policies, and products that allow the region to continue to grow. RISE was incorporated in June 2016, and filed for 501(c) 3 Status in January 2017.

RISE's mission is to accelerate global market activity by developing a regional "living laboratory" to test innovation, and to facilitate partnerships and collaboration in the resilience and coastal adaptation fields that lead to economic growth in the Hampton Roads region.

The region is galvanizing to address these impacts. Significant work by regional academic, public, and private sector actors to find solutions to evolving conditions is underway. The region already is making significant investments to mitigate the impacts of sea level rise. Investors in these efforts include residents, businesses, municipalities, state and federal agencies, and non-profit organizations. RISE will work regionally with these entities to foster collaboration and partnerships in the fields of resilience and coastal adaptation.

Cross Disciplinary Capacity RISE's mission is cross-disciplinary, combining abilities in technical, financial, planning, and community awareness. The Executive Director has demonstrated abilities in those areas and will add staff to augment, grow, and diversify these capabilities.

Technical Capacity RISE's Executive Director has a track record of planning and executing complex technical programs. Specialized knowledge in water management and resilience areas may be required and will be acquired through consultant or other arrangements.

Capacity for Community Engagement and Inclusiveness Although a new organization, RISE has begun the process of community outreach. The Executive Director has briefed community groups, business groups, and the City Managers of all the regions in Hampton Roads. The RISE Board draws from local business leaders, philanthropists, and thought leaders.

Management Team and Key Staff/Board Members:

Paul Robinson, Executive Director of RISE, has over 25 years in engineering and product commercialization.



Paul Hirschbiel, Board Member, is a local business leader and investor.
 Anne Conner, Board Member, President at Towne Bank.
 Evans McMillion, Board Member, attorney.
 Drew Ungvarsky, Board Member, CEO & Executive Creative Director at GROW.

Overall	This Report Period	To Date
Total Projected Budget from All Sources	\$0.00	\$130,157,902.76
Total Budget	\$0.00	\$120,569,000.00
Total Obligated	\$0.00	\$120,549,000.00
Total Funds Drawdown	\$5,167,521.30	\$73,841,866.70
Program Funds Drawdown	\$5,167,521.30	\$73,841,866.70
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$7,729,216.36	\$81,145,422.26
HUD Identified Most Impacted and Distressed	\$7,481,705.07	\$58,751,405.00
Other Funds	\$ 0.00	\$ 9,588,902.76
Match Funds	\$ 0.00	\$ 9,588,902.76
Non-Match Funds	\$ 0.00	\$ 0.00

Funds Expended

Overall	This Period	To Date
Coastal Community Resilience, Inc.	\$ 169,106.77	\$ 3,350,887.26
Commonwealth of Virginia	\$ 69,591.84	\$ 1,234,346.10
Norfolk	\$ 7,490,517.75	\$ 76,560,188.90

Progress Toward Required Numeric Targets

Requirement	Target	Projected	Actual
Overall Benefit Percentage	50.00%	95.05%	51.81%
Overall Benefit Amount	\$49,716,504.27	\$94,510,442.88	\$51,514,376.66
Minimum Supporting Leverage	\$70,923,836.00	\$70,643,642.00	\$.00
Minimum Direct Leverage	\$69,232,862.00	\$69,232,862.00	\$.00
Limit on Public Services	\$18,082,350.00	\$25,000.00	\$.00
Limit on Admin/Planning	\$24,109,800.00	\$21,135,991.46	\$19,366,291.12
Limit on Admin	\$.00	\$4,519,264.64	\$2,807,411.97
Most Impacted and Distressed	\$120,549,000.00	\$94,297,981.80	\$58,751,405.00

Overall Progress Narrative:

Both Norfolk and RISE are making excellent progress. They both are meeting projected goals and look on track to spend all program funds.

Project Summary

Project #, Project Title	This Report	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
01-NDR, Administration	\$52,158.42	\$4,519,264.64	\$2,807,411.97
02-NDR, Ohio Creek Watershed Project	\$4,897,492.41	\$111,029,735.36	\$68,053,669.14
03-NDR, Coastal Resilience Laboratory & Accelerator	\$217,870.47	\$5,000,000.00	\$2,980,785.59
04-LTC, Long-Term Commitments	\$0.00	\$0.00	\$0.00



05-SL, Supporting Leverage	\$0.00	\$0.00	\$0.00
06-OV, Outcome Values	\$0.00	\$0.00	\$0.00
07-NDR-PI Account, Coastal Resilience Laboratory &	\$0.00	\$20,000.00	\$0.00
9999, Restricted Balance	\$0.00	\$0.00	\$0.00
DELETED-ACTIVITIES, DELETED-ACTIVITIES (Temporary)	\$0.00	\$0.00	\$0.00

Activities

Project # / 01-NDR / Administration



Grantee Activity Number: 01-NDR-Admin01
Activity Title: NDR-Administration-Virginia

Activity Type:

Administration

Project Number:

01-NDR

Projected Start Date:

01/17/2017

Benefit Type:

N/A

National Objective:

NA

Activity Status:

Under Way

Project Title:

Administration

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Commonwealth of Virginia

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$2,339,813.81
Total Budget	\$0.00	\$2,339,813.81
Total Obligated	\$0.00	\$2,339,813.81
Total Funds Drawdown	\$0.00	\$1,321,808.29
Program Funds Drawdown	\$0.00	\$1,321,808.29
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$69,591.84	\$1,234,346.10
Commonwealth of Virginia	\$69,591.84	\$1,234,346.10
Most Impacted and Distressed Expended	\$0.00	\$0.00

Activity Description:

In February 2019, DHCD decided to transfer \$300,000 of State administrative funds to RISE's administrative budget. The total of grant administrative funds does not exceed the 5% cap.

On going administrative and grant management activities. Technical assistance, monitoring and financial management oversight.

Due to space constraints, Virginia's Actions to Affirmatively Further Fair Housing as been added here as a supporting document here rather than under the Executive Summary.

Location Description:

State Offices, primarily located at 600 East Main Street, Richmond, Virginia 23219

Activity Progress Narrative:

ongoing administrative activities included the overall grant and financial management such as invoices, schedules, timesheets, remittance request preparation, records management, quarterly status update report preparation, and overall coordination among City staff, and RISE.

Activity Progress Narrative Type:



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

	Amount
Commonwealth of Virginia	\$200,000.00
Old Dominion University	\$50,000.00
Total Other Funding Sources	\$0.00

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

Grantee Activity Number: 01-NDR-Admin02

Activity Title: NDR-Administration-Norfolk

Activity Type:

Administration

Project Number:

01-NDR

Projected Start Date:

01/17/2017

Benefit Type:

N/A

National Objective:

NA

Activity Status:

Under Way

Project Title:

Administration

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall

Total Projected Budget from All Sources

Jul 1 thru Sep 30, 2021

To Date

\$0.00

\$1,629,450.83

Total Budget

(\$130,000.00)

\$1,629,450.83

Total Obligated

(\$130,000.00)

\$1,629,450.83

Total Funds Drawdown

\$36,388.70

\$1,017,002.01

Program Funds Drawdown

\$36,388.70

\$1,017,002.01

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$8,812.68

\$1,023,365.55

Norfolk

\$8,812.68

\$1,023,365.55

Most Impacted and Distressed Expended

\$0.00

\$0.00

Activity Description:

Ongoing administrative functions including grant management, project planning, community involvement and project implementation.

Location Description:

This is an administrative activity for the City of Norfolk. The City's Office of Resiliency is located at 501 Boush Street, Norfolk , VA 24510.

Activity Progress Narrative:

In this quarter, ongoing administrative activities included the overall grant and financial management such as invoices, schedules, timesheets, remittance request preparation, records management, quarterly status update report preparation, and overall coordination among City staff, consultants, and DHCD.

Activity Progress Narrative Type:

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 01-NDR-Admin03

Activity Title: NDR-Administration-RISE

Activity Type:

Administration

Project Number:

01-NDR

Projected Start Date:

01/17/2017

Benefit Type:

N/A

National Objective:

NA

Activity Status:

Under Way

Project Title:

Administration

Projected End Date:

09/30/2022

Completed Activity Actual End Date:**Responsible Organization:**

Coastal Community Resilience, Inc.

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$550,000.00
Total Budget	\$0.00	\$550,000.00
Total Obligated	\$0.00	\$550,000.00
Total Funds Drawdown	\$15,769.72	\$468,601.67
Program Funds Drawdown	\$15,769.72	\$468,601.67
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$4,206.13	\$465,935.56
Coastal Community Resilience, Inc.	\$4,206.13	\$465,935.56
Most Impacted and Distressed Expended	\$0.00	\$0.00

Activity Description:

In February 2019, DHCD decided to transfer \$300,000 of State administrative funds to RISE's administrative budget. The total of grant administrative funds does not exceed the 5% cap.

Administrative activity including grant management, financial services, and project development.

Location Description:

This is an administrative activity for the Non-Profit RISE. Services that RISE provide will be within the Hampton Roads area. RISE's offices are currently located at 501 Boush Street, Norfolk, VA 24510.

Activity Progress Narrative:

In the past quarter, RISE recurrent administrative activities included the overall grant and financial management such as receipts and invoice review, bookkeeping, filing, remittance request preparation, and quarterly status update and financial reports preparation. Next, RISE worked with PBMares to complete and file a 2020 A-133 audit. Finally, RISE worked on financial and programmatic monitoring requests from DHCD for a period between 2017 and 2021 (since the inception of RISE to date).

Activity Progress Narrative Type:

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

Project # / 02-NDR / Ohio Creek Watershed Project

Grantee Activity Number: 02-NDR-A1

Activity Title: NDR-Stormwater Mgt-Pump Stations/Tide Gates

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$21,238,908.10
Total Budget	\$106,666.66	\$21,238,908.10
Total Obligated	\$106,666.66	\$21,238,908.10
Total Funds Drawdown	\$762,024.79	\$12,793,784.47
Program Funds Drawdown	\$762,024.79	\$12,793,784.47
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$2,896,679.29	\$15,690,463.76
Norfolk	\$2,896,679.29	\$15,690,463.76
Most Impacted and Distressed Expended	\$2,896,679.29	\$15,690,463.76

Activity Description:

To enhance the capacity of the natural systems to deal with storm water and to protect the tidal systems from storm surge inundation, a series of pumping stations and tide gates will help manage the flows of water in the system.

As the direct leverage funding table indicates, the City of Norfolk committed \$32,120,000 in operation and maintenance costs (O&M) over the lifetime of the Ohio Creek Watershed Project. As indicated in the City of Norfolk leverage letter accepted by HUD (Page 3 of Norfolk Letter in attachment below), the O&M costs will begin when the project is complete and will continue until 2065 (the lifetime of the project). These O&M costs were estimated based on the initial 10% design and may change once the final design is complete.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Pump stations and tide gates will be located in the Chesterfield Heights and Grandy Village neighborhoods within census tracks 46 & 47. The specific location is subject to further design currently underway. At the time of the Phase II application, the engineering for the stormwater management activity of Ohio Creek Watershed project had only been designed to 10% of the final design.



DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Haynes Creek Pump Station

This quarter the electrical work inside the pump stations began and will continue for several months. The generator and equipment pads were completed and the generator was installed.

Ballentine Pump Station

This quarter the HVAC pads and roof were completed. Electrical and plumbing work continued inside the pump station. The main discharge pipe was installed and the intake valves and vaults are being installed throughout this quarter.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of buildings (non-residential)	0	4/3

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

	Amount
City of Norfolk (Tide Gauge)	\$32,120,000.00
Total Other Funding Sources	\$0.00

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 02-NDR-A2

Activity Title: NDR-Stormwater Mgt-Water Retention Rd Improvement

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:**Responsible Organization:**

Norfolk

Overall**Total Projected Budget from All Sources****Jul 1 thru Sep 30, 2021****To Date**

\$0.00

\$40,550,319.27

Total Budget

\$106,666.67

\$40,550,319.27

Total Obligated

\$106,666.67

\$40,550,319.27

Total Funds Drawdown

\$2,113,655.72

\$18,955,940.12

Program Funds Drawdown

\$2,113,655.72

\$18,955,940.12

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$2,772,490.82

\$21,728,430.94

Norfolk

\$2,772,490.82

\$21,728,430.94

Most Impacted and Distressed Expended

\$2,772,490.82

\$21,728,430.94

Activity Description:

Several existing streets in the project area specified above will be retrofitted with pervious pavement and bioswales to manage rain-induced flooding and increase the capacity of the existing stormwater system. Please see attached for examples of the described activity.

To mitigate the vulnerability to street and neighborhood flooding, parcel-level water retention improvements such as rain gardens will help capture and reduce the intensity of stormwater runoff within the neighborhood. These parcel-level improvements will work together as a part of a flood management system in combination with other stormwater and coastal activities included in the DRGR system. These parcel-level improvements will help to prevent the undersized system from being overwhelmed and from water backing up into the streets. See attached for examples of the described activity.

Portions of some streets may have to be raised or otherwise retrofitted as part of the coastal flood protection. Road retrofits will prevent water from flowing over the roads and will improve passage and safe egress in and out of the adjacent neighborhoods during flood events.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

Portions of several existing streets that will be retrofitted are located in the Chesterfield Heights and Grandy Village neighborhoods within census tracks 46 & 47. The specific location is subject to further design currently



underway. Stormwater modeling currently underway will determine the exact location of these retrofits. At the time of the Phase II application, the engineering for the stormwater management activity of Ohio Creek Watershed project had only been designed to 10% of the final design.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

stormwater lines were installed on the eastern block of Chesterfield Blvd this quarter. The water main along Norchester Ave has been installed and crews are beginning the work on the sewer line replacement. All the curb, gutters, sidewalks, and driveway aprons have been replaced on Marlboro Avenue, and crews began laying the previous pavers this quarter. The western block is completed and the western end of the middle block has begun installation.

Stormwater pipes have been installed on the eastern end of Kimball Terrace next to Grandy Village on both sides of the culvert crossing near the Recreation Center. Installation of stormwater pipes along Kimball Terrace west in the new roadway alignment has begun as well.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of Linear feet of Public	0	4800/10000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

	Amount
City of Norfolk (Kimball Terrace)	\$1,395,692.00
City of Norfolk (Tide Gauge)	\$27,170.00
Total Other Funding Sources	\$0.00

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 02-NDR-A4

Activity Title: NDR-Stormwater Mgt-Community Amen. Wetlands Mit.

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:**Responsible Organization:**

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$13,149,815.31
Total Budget	\$62,461.08	\$13,149,815.31
Total Obligated	\$62,461.08	\$13,149,815.31
Total Funds Drawdown	\$804,334.71	\$7,765,301.96
Program Funds Drawdown	\$804,334.71	\$7,765,301.96
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$803,122.17	\$8,568,424.13
Norfolk	\$803,122.17	\$8,568,424.13
Most Impacted and Distressed Expended	\$803,122.17	\$8,374,714.15

Activity Description:

The capacity of the existing marshes and wetlands in the area will be improved to accommodate stormwater from upstream. The marsh retention areas will be connected to and integrated with the wetlands to provide rainwater storage. The passage of stormwater through restored wetlands and marshes will not only help reduce flooding but also improved water quality. This activity will also include the resilience park construction and associated amenities.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

All the berm features have been completed in the park this quarter. Some walking paths have been installed in the wetlands area next to the fields and around the school leading up to the trail on top of the berm. The pathway on top of the berm is being prepped for paving and will be completed soon. The playground fences have been installed and all the plantings around the school were completed this quarter. The wetland features along the eastern side of the park have the trees planted and the other plants as well. The basketball quart near the recreation center has started with the goalposts and the base pavement has been installed. A lighting

plan was developed for the plaza area of the park and we are beginning to install the conduit soon.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of Acres wetlands	0	2/3

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

Grantee Activity Number: 02-NDR-B1

Activity Title: NDR-Coastal Mgt.-Living Shoreline & Coastal Berm

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:**Responsible Organization:**

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$14,099,728.07
Total Budget	\$31,666.67	\$14,099,728.07
Total Obligated	\$31,666.67	\$14,099,728.07
Total Funds Drawdown	\$732,860.61	\$9,845,489.70
Program Funds Drawdown	\$732,860.61	\$9,845,489.70
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$679,127.85	\$10,524,617.55
Norfolk	\$679,127.85	\$10,524,617.55
Most Impacted and Distressed Expended	\$679,127.85	\$10,691,146.69

Activity Description:

The living shoreline will be constructed along the part of the Elizabeth River bank. The living shoreline will be placed parallel to the shore and will create habitat for species, safeguard the shoreline from erosion due to wave energy, soak up stormwater, reduce storm surge and trap polluted runoff. When combined with the shoreline berm, a robust living shoreline will increase durability and effectiveness for the flood protection structure.

Along the Elizabeth River the berm will be built as part of the coastal flood protection system. The berm will be vegetated with grasses and indigenous plants. If desired by the community, a walking path can be placed on the river front of the berm to provide recreational amenity. In this way, the flood-protection feature will be visually integrated into the existing landscape.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

A robust living shoreline will be constructed along the part of the Elizabeth River bank.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

All reaches of the berm that can be completed have had the final layers of soil added and grass seeding began this quarter. The berm along Haynes Creek has been installed where one of the houses was, but we are still waiting on the last house to be vacated. We have begun to install the berm leading up to I-264 and completed our coordination with VDOT for the tie-in.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period Total	Cumulative Actual Total / Expected Total
# of Linear feet of green public	0	0/5500

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

	Amount
Elizabeth River Project	\$440,000.00
Total Other Funding Sources	\$0.00

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 02-NDR-B2

Activity Title: NDR-Coastal Management-Flood Walls

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:**Responsible Organization:**

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$4,641,672.13
Total Budget	\$150,000.00	\$4,641,672.13
Total Obligated	\$150,000.00	\$4,641,672.13
Total Funds Drawdown	\$475,816.58	\$1,467,906.71
Program Funds Drawdown	\$475,816.58	\$1,467,906.71
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$328,784.94	\$1,796,691.65
Norfolk	\$328,784.94	\$1,796,691.65
Most Impacted and Distressed Expended	\$328,784.94	\$1,741,297.15

Activity Description:

To increase resilience to coastal flood events , several locations along the river front have inadequate space to provide a properly sloped berm due to the existing infrastructure in the project area. In these areas, a vertical flood wall is proposed on the river side with a graded landscape feature on the inland side.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

Several locations along the river front have inadequate space to provide a properly sloped berm due to the existing infrastructure in the project area. In these areas, a vertical flood wall is proposed on the river side. The exact location along the shoreline will be determined by the design and modeling work currently underway. The design phase will generate a number of alternatives for the community to choose from.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

The T-wall along Kimball Terrace finished on the eastern side of the Haynes Creek box culvert. Crews are continuing to install piles on the western side of the culvert.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/950

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

Grantee Activity Number: 02-NDR-C1

Activity Title: NDR-Land Acquisition

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

08/01/2019

Benefit Type:

Area (Census)

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$785,000.00
Total Budget	(\$265,000.00)	\$785,000.00
Total Obligated	(\$265,000.00)	\$785,000.00
Total Funds Drawdown	\$8,800.00	\$685,953.70
Program Funds Drawdown	\$8,800.00	\$685,953.70
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$1,500.00	\$457,151.70
Norfolk	\$1,500.00	\$457,151.70
Most Impacted and Distressed Expended	\$1,500.00	\$457,151.70

Activity Description:

Depending on the further design, modeling and community preferences, some land may have to be acquired to accommodate flood protection components such as flood walls.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Depending on the further design, modeling and community preferences, some land may have to be acquired to accommodate flood protection components. The exact location is subject to further design and community preferences. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

We are continuing to work with property owners and residents to begin the acquisition process to include appraisals, environmental assessments, and title research where needed. We have begun the relocation process for residents this quarter as well.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

	Amount
Norfolk Redevelopment and Housing Authority	\$15,000,000.00
S.L. Nusbaum Reality Co.	\$20,000,000.00
Total Other Funding Sources	\$0.00

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 02-NDR-D1

Activity Title: NDR-Ohio Creek Watershed Planning

Activity Type:

Planning

Project Number:

02-NDR

Projected Start Date:

01/17/2017

Benefit Type:

Area (Census)

National Objective:

NA

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$16,539,292.48
Total Budget	(\$62,461.08)	\$16,539,292.48
Total Obligated	(\$62,461.08)	\$16,539,292.48
Total Funds Drawdown	\$0.00	\$16,539,292.48
Program Funds Drawdown	\$0.00	\$16,539,292.48
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$16,771,043.62
Norfolk	\$0.00	\$16,771,043.62
Most Impacted and Distressed Expended	\$0.00	\$68,200.61

Activity Description:

Planning activities are intended to take the 10% design concepts and ideas initially proposed in the application and further the design process up to project readiness.

Planning activities are intended to result in identifying targeted strategies focused on how best to reduce flood risk and deliver on resilience goals in the Ohio Creek project area in the most effective and environmentally sound ways. This will be achieved by the City of Norfolk revisiting the project components with the community, city staff, design experts and other stakeholders to maximize value without reducing the scope or benefits presented in the application. Results will be identified through conducting planning workshops, environment review, design sessions and community meetings.

As articulated in Phase II of the NDRC application, which is part of and outlined in this Action Plan, Virginia's approach to creating coastal resilience has three goals: Build Water Management Solutions, Strengthened Vulnerable Neighborhoods and Improve Economic Vitality (see Phase II application, page 44). To achieve these goals, the City proposed a series of initiatives (see Phase II application, pages 50 -51) that will buttress communities against economic downturn and other acute shocks and chronic stresses. These initiatives include poverty reduction programs, land use regulatory improvements, business expansion and workforce development programs.

To ensure that that Virginia's approach is met and to support the goals outlined in the above paragraph Norfolk will allocate \$300,000 in Planning funds for the Ohio Creek Watershed project to develop a Community Revitalization Plan for the adjacent Newton Creek area located within the approved MID-URN area. The funds would be used for a Newton Creek Community Revitalization Plan to advance the economic revitalization goals that are described in the approved Action Plan.



Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Adjacent to the Ohio Creek Watershed project area and within the approved MID-URN application area Norfolk will be distributing efforts to implement economic vitality improvements that would directly benefit the Ohio Creek Watershed Project. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

No in person community meetings have been held this quarter due to COVID-19, however, we continue to engage NRHA, Chesterfield Academy, Grandy Village Tenant Council, and Chesterfield Heights Civic League via email, virtual meetings, and one-on-one meetings onsite. We sent out our quarterly newsletter this quarter as well.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of community engagement	0	80/10

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

Project # / 03-NDR / Coastal Resilience Laboratory & Accelerator



Grantee Activity Number: 03-NDR-B2

Activity Title: NDR-RISE-Resilience Innovation Fund (RIF)

Activity Type:

Economic Development Center (Virginia waiver only)

Project Number:

03-NDR

Projected Start Date:

01/16/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/29/2022

Completed Activity Actual End Date:**Responsible Organization:**

Coastal Community Resilience, Inc.

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$3,730,907.26
Total Budget	\$0.00	\$3,730,907.26
Total Obligated	\$0.00	\$3,730,907.26
Total Funds Drawdown	\$202,214.69	\$2,117,076.12
Program Funds Drawdown	\$202,214.69	\$2,117,076.12
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$164,900.64	\$2,011,936.67
Coastal Community Resilience, Inc.	\$164,900.64	\$2,011,936.67
Most Impacted and Distressed Expended	\$0.00	\$0.00

Activity Description:

The RIF provides support through training and capital to emerging businesses to develop, pilot and grow business around innovative, resilience-building technologies, products and services in the Hampton Roads region that are scalable to other coastal communities. The goal is to generate economic growth and support the creation of a new regional resilience industry cluster. The mechanisms for selecting businesses for the RIF awards are Coastal Community Resilience Challenges. RISE conducts Coastal Community Resilience Challenges to 1) identify resilience problems in need of innovative solutions and 2) to surface entrepreneurs with solutions that can be developed, piloted and scaled into viable businesses in the Hampton Roads region. Participating entrepreneurs are also provided with technical and business coaching assistance. This activity includes all project delivery costs associated with the program, including program design, community outreach, topics selections for each Challenge round, recruitment, marketing, selection and underwriting of awardees, technical and business mentoring assistance to awardees during the application process as well as during the awards implementation, monitoring and administration of awards, environmental reviews, and knowledge dissemination about the projects and outcomes.

03-NDR-B2 / NDR RISE R&D Venture/Support has been converted into NDR-RISE-Resilience Innovation Fund (RIF)

The Resilience Innovation Fund program will encompass several previously described activities. The RIF program design, as a single program, is now better suited to meet the needs of resilience businesses and support RISE in meeting the outcomes of the original application.

The overarching RIF program, listed above as 03-NDR-B2, will serve two functions. It will hold award funds for current and future rounds of the RIF that will identify additional small business applicants with innovative resilience projects. It will also capture the technical and business assistance along with pre-award work completed by RISE and its subrecipients. This work was and is critical to ensuring quality applicants to the RIF



and their long-term business sustainability after the RIF award.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York and the Town of Smithfield.

Activity Progress Narrative:

In the past quarter, RISE continued to provide assistance to and oversight of seven HUD-funded Challenge awardees from 2019 and 2020 which have been working on their pilots in Hampton Roads and twelve Challenge awardees funded by State match from 2020 and 2021. Specific updates on HUD-funded teams include: InfraSGA – Continued to secure manufacturing partners for the novel RAFT bioretention planter system/product production. Coordinated final product design and manufactured 3D printed parts for sizing validation and component construction for RAFT 1.0 demonstration planter. Developed a logistics plan for fabrication and construction of RAFT parts for operational, above the ground demonstration. Building Resilience Solutions – BRS continued data analytics for multiple field test sites in Hampton Roads, including pre-retrofit background conditions monitoring. BRS completed design for its first retrofit flood test module and continued planning for construction of the module in a new retrofit lab in Suffolk. Constructis – after deploying the REX technology in its first pilot at a bus facility in Virginia Beach in the last reporting period, Constructis continued to collect data from the pilot to validate and refine the product performance. GROW Oyster Reefs continued to work on a final report in preparation for the project conclusion at the end of 2021. Resilience Enterprise Solutions - conducted outreach, recruitment and curriculum enhancement for the third Home Raising Academy workforce upskilling training in Hampton Roads. In the second academy class, there were 7 people trained. Landscape Resilience Partnership - continued recruitment and delivery of various upskilling trainings and workshops in design, installation and O&M for green infrastructure in Hampton Roads. FloodMapp finalized integration of their forecast flooding technology with the free, crowdsourced traffic and navigation app, Waze. The City of Norfolk and RISE staff conducted the first field test during a flooding event to test accuracy of real-time rerouting information to avoid flooded roads. FloodMapp, RISE and Norfolk began planning for public launch that will follow after several test iterations in the field. RISE also responded to DHCD's monitoring requests covering the period from 2017 (inception of RISE) to date. In the past quarter, State match funds were deployed to onboard six small business winners of the 2021 Coastal Community Resilience Challenge. The teams participated in and concluded the RISE resilience innovation business accelerator and began securing pilot partners for their projects. State match funds were also deployed for continued implementation and management/oversight of six winning small business-led projects from the 2020/2021 Challenge. Specific updates include: StormSensor - continued to extract data from deployed sensors in the stormwater system in Norfolk that serves as a pilot site for the development and refinement of new software features including Tidal Flow Separations, Tailwater Alert, and Storm-Analysis. The first two features were launched. Natrx - continued the development and assembly of a 3D printer and mobile manufacturing units for biogenic, shoreline-protection modules that will be produced from Hampton Roads. Continued preparation for collocation with a precast firm in Chesapeake. Re:Public - finalized the development of the community mapping platform for non-mapping professionals via a pilot with Norfolk and Henrico County and began closeout with RISE. WeatherCheck - due to continued delays, lack of communication, and failure to remedy items in the first notice of default issued by RISE, RISE issued another notice to terminate the contract and begin the funds repayment process with legal assistance from the RISE's attorney. Virginia Pace Authority - continued to improve the launched beta version of a new PACEfi platform that connects resilience projects with investors. Worked on a pilot project for an existing building to demonstrate C-PACER benefits. Began securing a second pilot project. Continued outreach to Hampton Roads communities around the benefits of C-PACER. Generation USA - designed, recruited, and graduated the first workforce training class in Hampton Roads with 11 trainees/graduates. Finally, State match funds were used to conduct research and community engagement to identify topics for the next round of the Coastal Community Resilience Challenge; design the challenge, and prepare for the Challenge launch at the end of October.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of businesses assisted	0	4/15
# of businesses trained	0	0/10
# of People Trained	0	0/50
# of public facilities	0	0/0
# of reports or studies	0	0/2

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Persons	0	0	0	0/0	0/0	0/0	0



Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None



Grantee Activity Number: 03-NDR-B3

Activity Title: NDR-RISE-Resilience Campus

Activity Type:

Economic Development Center (Virginia waiver only)

Project Number:

03-NDR

Projected Start Date:

07/01/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jul 1 thru Sep 30, 2021	To Date
Total Projected Budget from All Sources	\$0.00	\$352,565.66
Total Budget	\$0.00	\$352,565.66
Total Obligated	\$0.00	\$352,565.66
Total Funds Drawdown	\$15,655.78	\$153,453.01
Program Funds Drawdown	\$15,655.78	\$153,453.01
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$202,245.71
Coastal Community Resilience, Inc.	\$0.00	\$202,245.71
Most Impacted and Distressed Expended	\$0.00	\$0.00

Activity Description:

In order for companies to build, test, prototype, and scale up their designs, RISE will establish and run a Resilience Campus. The Campus will provide space and laboratory facilities for these companies to operate. It may include the acquisition, construction, reconstruction, or rehabilitation of a separate building or it may result in the development of existing space or RISE may partner with a local university with appropriate laboratory facilities. Equipment and laboratory materials may be required to allow for product testing. This activity will be undertaken through the eligibility allowed through the Special Economic Development activities as laid forth in Regulatory/Statutory Citations: Section 105(a)(2), Section 105(a)(4), Section 105(a)(14), Section 105(a)(15), Section 105(a)(17), Section 105(a)(19), 570.201(c), 570.201(o), 570.202, 570.203 (a), (b) and (c), 570.204.

Planning efforts for this activity will be minimal and consist of developing how the Resilience Campus will interface with other activities and will occur under activity 03-NDR-C1.

*** \$47,434.34 has been temporarily reduced from this activity and added to the Planning activity to allow expenses currently charged to "Corporate Engagement: 03-NDR-B4 to be reallocated to "Planning: 03-NDR-C1" activity. Once all expenses have been transferred and Corporate Engagement activity has been zeroed out and removed the budget will allow for \$47,434.34 to be reallocated back to the Resilience Campus activity.***

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.

Activity Progress Narrative:

RISE finalized the move and transition to a new Assembly building to collocate with other regional entrepreneurial organizations. RISE continued to operate a fabrication/workshop part of the resilience campus. Finally, RISE continued to gather and evaluate the potential space needs of 2021 small business Challenge awardees and plan for 2022.

Activity Progress Narrative Type:

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of public facilities	0	11/2

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Persons	0	0	0	0/0	0/0	0/0	0

Activity Locations

No Activity Locations found.

Other Funding Sources

No Other Funding Sources Found

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

