ATTACHMENT B

LEVERAGE DOCUMENTATION

COMMONWEALTH OF VIRGINIA

AttBLeverage Documentation.pdf





Terence R. McAuliffe Governor

October 27, 2015

The Honorable Julián Castro
Secretary of Housing and Urban Development
U.S. Department of Housing and Urban Development
451 7th Street S.W.
Washington, D.C. 20410

Dear Secretary Castro:

To support the Commonwealth of Virginia's application to the U.S. Department of Housing and Urban Development's (HUD) National Disaster Resilience Competition (NDRC), I pledge the full cooperation of state executive branch agencies during this grant program's anticipated period of performance. In addition, Virginia has committed \$72,193,642 dollars in direct and supporting leverage, as detailed in the attached table.

Our proposal, *ThRIVe—Resiliency in Virginia*, represents a collaborative effort to create long-lasting resilience at all levels by uniting communities in Hampton Roads around shared water challenges, improving economic vitality, and strengthening vulnerable neighborhoods by building social cohesion around water management solutions. This globally important region is already facing the effects of sea level rise, exacerbated by land subsidence and resulting in an area experiencing the impacts of climate change more rapidly than other coastal communities.

Please rest assured that we will continue aggressively seeking additional resources and partnerships to complement our HUD/NDRC strategy for Hampton Roads, and to help build resilience across Virginia.

Sincerely,

Terence R. McAnliffe

Attachment (1): Table of State Agencies' Direct and Supporting Leverage

DIRECT LEVERAGE - STATE

SUB-TOTAL: \$200,000.00

SUPPORTING LEVERAGE - STATE

Source of Leverage	Locality Assisted	Date of Project	Dollar Amount	Brief Description of Project
Virginia Department of Health	Statewide	July 2015	\$22,000	VDH Office of Minority Health employs rural health funds to conduct agency-specific telehealth needs assessments. Complements tele-health project to localities.
Virginia Department of Health	Chesapeake	July 2015, Annually	\$60,000	One of the target communities (Chesapeake) is applying to fund a regional alert system. VDH, VDEM, and other state agencies employ the same system (Everbridge), thereby enhancing interoperability and resilience.
Virginia Department of Health	Norfolk	July 2015	\$2,300	VDH Office of Drinking Water and EPA are working together to support ongoing pilot study work at the City of Norfolk waterworks addressing climate change, storm surge, sustainability and resilience to ensure a safe and adequate water supply is maintained during these potential hazards.
Department of Environmental Quality	Statewide	2013-2015	\$1,065,000	Stormwater Management Training statewide (5,210 people).
Department of Environmental Quality	Statewide	2013-2015	\$435,000	Erosion & Sediment Control Training statewide (2,170 people).
Department of Environmental Quality	Hampton Roads ¹	2015	\$5,000	Project WET Climate Resiliency Professional Development and Technical Assistance 2015 Hampton Roads (40 people).
Virginia Department of Game and Inland Fisheries	Hampton Roads/ Chesapeake	2015-2017	\$3,000,000	In partnership with the Wildlife Foundation of VA and the US Fish and Wildlife Service, the DGIF is leveraging a Hurricane Sandy resiliency grant (through the Foundation) to effect hydrologic restoration at the Cavalier WMA. This property was historically part of the "Green Sea" most of which has been ditched and drained over the past 200 years. Restoring hydrologic function and connectivity to the Great Dismal Swamp will greatly

¹ Hampton Roads is the name for the geographic area that covers all 3 eligible project localities - Chesapeake, Newport News and Norfolk.

Source of Leverage	Locality Assisted	Date of Project	Dollar Amount	Brief Description of Project
				facilitate restoring native habitats (such as Atlantic White Cedar) in the area.
Virginia Department of Game and Inland Fisheries	Hampton Roads	Annually	\$190,000	Annually, the DGIF funds operational investments into Cavalier WMA (and Princess Anne WMA) to manage habitats. Activities include farm practices, manipulating water levels, control of invasive species and mowing.
Department Of Environmental Quality	Norfolk	2015-2016	\$10,000,000	Sewer system improvements to prevent sanitary sewer overflows.
Department Of Environmental Quality	Chesapeake	2016-2017	\$1,250,000	Stormwater BMP – wet ponds.
Department Of Environmental Quality	Newport News	2016-2017	\$1,442,503	Stormwater BMPs - wet ponds & stream restorations.
Department Of Environmental Quality	Norfolk	2016-2017	\$539,441	Stormwater BMPs – dry pond, retention ponds & stream restoration.
Department Of Environmental Quality	Statewide	2016-2017	\$4,000,000	Statewide land cover GIS data, including LiDAR data for areas prone to recurrent flooding on the Eastern Shore.
Department Of Environmental Quality	Norfolk	2016-2017	\$6,000,000	Sewer system improvements to prevent sanitary sewer overflows.
Department Of Environmental Quality	Norfolk	2016-2017	\$1,195,000	Stormwater BMPs – multiple projects.
Department Of Environmental Quality Assistance Fund	Chesapeake	2016-2017	\$412,000	Stormwater BMPs – wet pond & wetlands bench.
Department Of Environmental Quality	Newport News	2016-2017	\$803,750	Stormwater BMPs – constructed wetlands & stream restoration.
Department Of Environmental Quality	Norfolk	2016-2017	\$1,548,476	Storm water BMPs – retention ponds, constructed wetlands & stream restoration.
Department Of Environmental Quality	Hampton Roads	2016-2020	\$135,000	Grant to improve coastal resiliency through better shoreline management - VIMS (Virginia Institute of Marine Science).
Department Of Environmental Quality	Statewide	2017-2021	\$850,000	Grants to build coastal resilience.
Department of Conservation and Recreation	Chesapeake, Norfolk, Newport	Annually	\$31,044	Dam safety engineers – Two engineers spend time on issues affecting these three localities. Their estimated wages associated

Source of Leverage	Locality Assisted	Date of Project	Dollar Amount	Brief Description of Project
	News			with support to these localities is \$31,044 in state general funds.
Department of Conservation and Recreation	Chesapeake, Norfolk, Newport News	Annually	\$15,823	Floodplain program planners — Two planners spend time on issues affecting these three localities. Their estimated wages associated with support provided to these localities is \$15,823 in FEMA federal grant funds.
Department of Conservation and Recreation	Statewide/ Chesapeake, Norfolk, Newport News	2015	\$10,000	Statewide probable maximum precipitation study, for use in our dam safety program, which is scheduled to be completed by December 1 st in accordance with Chapter 475 (HB1006) of the 2014 Virginia Acts of Assembly. We estimate that \$10,000 in state special funds could be allocated as support for these localities.
Department of Conservation and Recreation	Statewide/ Chesapeake, Norfolk, Newport News	2016	\$1,000	Development of Flood Protection Plan as called for in Chapter 182 (HB1817) of the 2015 Virginia Acts of Assembly. We estimate that \$1,000 in state special funds could be allocated as support for these localities.
Virginia Department of Transportation – James River Bridge	Newport News/ All Hampton Roads communities	February 10, 2015	\$500,000	Evaluation and scoping for deck joint elimination, deck overlay and beam repair. Project identifies maintenance issues to protect infrastructure. Bridge is a primary evacuation route for Hampton Roads.
Virginia Department of Transportation – Monitor Merrimac Memorial Bridge Tunnel	Newport News/ All Hampton Roads communities	November 13, 2015 (North)	\$14,800,000	Deck overlay and parapet waterproofing. Project identifies maintenance issues to protect infrastructure. Bridge is a primary evacuation route for Hampton Roads.
Virginia Department of Transportation – Multiple	Hampton Roads	February 23, 2015	\$1,000,000	Provides increased operational life of electronic roadway signs that provide guidance and information to motorists in the Hampton Roads metropolitan service area.
Virginia Department of Transportation – Multiple	Hampton Roads	May 26, 2015	\$2,000,000	Provides increased operational life of electronic roadway signs that provide guidance and information to motorists in the Hampton Roads metropolitan service area.
Virginia Department of Transportation – Multiple	Hampton Roads	December 15, 2015	\$300,000	Emergency generator power upgrades for TOC and Area Command facility.
Virginia Department of Transportation – Hampton Roads Bridge Tunnel	All Hampton Roads communities	2015-2016	\$9,916,949	Maintenance and upgrades to HRBT. (Such as: re-roofing ventilation fans; roof overhang; repair tidal flood gates; ceiling tiles; upgrade communications cable; upgrade pumps; prevent water infiltration; reinforce stone armor; design plans to address

Source of Leverage	Locality Assisted	Date of Project	Dollar Amount	Brief Description of Project
				tide gate issues).
Virginia Department of Transportation – All Tunnels	All	October 19, 2015	\$53,000	Reinforce response practices for disaster events, increasing and improving response and preparedness operations and area protections.
Virginia Department of Transportation – Monitor Merrimac Memorial Bridge Tunnel	All Hampton Roads communities / Newport News	2015-2016	\$1,428,734	Maintenance and upgrades to MMMBT. (Such as, design plans for MMMBT pump controls upgrade, replace HVAC units, and upgrade radio communications system.)
Virginia Department of Transportation – James River Bridge	All Hampton Roads communities / Newport News	August 1, 2015	\$389,000	Roof deteriorated in harsh environment. Protects personnel, electronic equipment, etc.
Virginia Department of Transportation – Berkley Bridge	All Hampton Roads communities / Norfolk	September 1, 2016	\$6,580,000	Removal of existing warning gates, bikeway gates, warning gongs and associated components and equipment and replace with new warning gates and enlarge platforms, bikeway gates, resistant gates and warning gongs and all associated electrical. Install new flood-resistant gates. Design plans to replace Berkley Bridge drive system.
Virginia Department of Transportation - High Rise Bridge	All Hampton Roads communities/ Chesapeake	July 1, 2016	\$1,276,000	Design plans to relocate and replace High Rise Bridge backup generator to Chesapeake side shore from draw house.
Hazard Mitigation Grant Program	Hampton Roads	October 23, 2014	\$280,194	Increase area resiliency through protective, mitigating and redevelopment programs to stem risks from natural hazards.
Science Museum of Virginia	Statewide	2016-2019	\$456,428	Provide climate change and resiliency programming to Virginians. This project is also supported by the Virginia Environment Endowment with a grant in the amount of \$25,000 and the Virginia Sea Grant through a \$10,000 gift.

SUB-TOTAL: \$71,993,642.00

\$ 72,193,642.00 GRAND TOTAL FOR DIRECT AND SUPPORTING LEVERAGE:



OFFICE OF THE VICE PRESIDENT FOR RESEARCH

Physical Address

4111 Monarch Way, Suite 203 Norfolk, Virginia 23508 Mailing Address

Office of Research 1 Old Dominion University Norfolk, Virginia 23529

> Phone (757) 683-3460 Fax (757) 683-5902

March 23, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

Dear Governor McAuliffe,

Re: Commitment of Leverage Resources

Old Dominion University is committed to working with the Commonwealth of Virginia to increase resilience and mitigate the impact of sea level rise in the Hampton Roads Region. As evidence of this commitment, we are making \$50,000 in funding available to you for the activities directly related to undertaking your CDBG-NDR proposal.

Sincerely,

Morris Foster, Ph.D.

Vice President for Research



Office of the City Manager

October 20, 2015

The Honorable Terence R. McAuliffe
Patrick Henry Building, 3rd Floor
1111 East Broad Street
Richmond, VA 23219

Re: Community Development Block Grant - National Disaster Resilience Competition Phase II: Letter documenting Direct Financial Commitment of \$381,068,563.

Dear Governor McAuliffe:

The City of Norfolk is pleased to join the Commonwealth of Virginia as a Partner in its efforts to improve disaster resiliency in the Hampton Roads region utilizing Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

The City of Norfolk is committed to working with the Commonwealth of Virginia to increase resilience and mitigate the impact of sea level rise in the Hampton Roads Region. As evidence of this commitment, we are making \$381,068,563 in direct commitment funding available to you to directly carry out for your CDBG-NDR proposal. The funds have been used since September 2014 and will be used to implement the overall CDBG-NDR program to address Unmet Needs in the Most Impacted and Distressed area (MID-URN) in the City of Norfolk.

In Phase 1 the entire City of Norfolk except six census tracts qualified as the MID-URN area. In Phase 2 the City of Norfolk proposes two watersheds, Newton's Creek Watershed and Ohio Creek Watershed, as MID-URN sub-area for the proposed CDBG-NDR-assisted projects.

The City of Norfolk's Unmet Needs in the Most Impacted and Distressed area (which encompasses the entire city except six census tracts as demonstrated in Phase I) include a system of edge conditions and watersheds that increase the city's exposure to recurrent flooding in light of rising sea level. Over the past several years the city has developed an innovative approach to managing water across all edge conditions and watershed areas. Norfolk's unmet needs program systematically addresses the entire MID-URN area. The two projects in City of Norfolk for which the Applicant, the Commonwealth of Virginia, is requesting CDBG-NDR assistance are in sub-area of the Norfolk's overall qualified MID-URN Target Area. These projects include prototype solutions to three conditions in two of the city's watersheds. The city's remaining edge conditions are being addressed through innovative methods which are not included as part of the requested CDBG-NDR funds, but are part of the city's CDBG-NDR overall program area and are strengthened by and will strengthen the solutions proposed for funding in this application in addition to addressing the causes

810 Union Street, #1101 • Norfolk, VA 23510 Phone: 757-664-4242 • Fax: 757-664-4239 of Unmet Needs from the Qualifying Disaster, Hurricane Irene, in the city's overall Most Impacted and Distressed Target Area.

Because the City is strengthening the resilience using non-CDBG-NDR funds in the rest of the MID-URN area outside the CDBG-NDR-assisted project sub-area, the City counts these leverage resources as direct leverage to the project sub-area defined for funding in this grant. The rest of the MID-URN area outside of the CDBG-NDR-assisted project sub-area includes edge bay-front coastal conditions, river-front coastal conditions, marsh, and wetland edge conditions that repeat themselves across the Norfolk's MID-URN, across the entire region and across the entire Chesapeake Bay system and beyond. Solutions implemented in these areas are strengthening Norfolk's ability to withstand increasing threats from sea level rise and resultant flooding taking place across the city. By doing so, these solutions are addressing causes which led to Unmet Needs from the Qualifying Disaster, Hurricane Irene, in the Norfolk entire MID-URN area.

The two projects proposed for the CDBG-NDR funding area part of and will support Norfolk's overall CDBG-NDR resilience program that is designed to reduce risk in Norfolk's entire MID-URN-qualified Target Area.

CDBG-NDR Resilience Program in Norfolk's overall MID-URN Target Area: Current and future expenditures since September 2014

Beach Nourishment along the entire shoreline between Little Creek Inlet and tip of Willoughby Spit to alleviate flooding and strengthen the area's resilience against future storm events.	Project Cost: \$18.4 million - \$12.9 million authorized by U.S. Army Corps of Engineers - City cost share: \$5.5 million (*included in the Storm Water Utility category below)
Implementation of eight shoreline restoration projects, development of a green infrastructure training program and green infrastructure plan and framework to alleviate flooding and strengthen resilience of the Lafayette River Watershed.	Project Cost: \$4,640,000 - \$4,382,652 awarded in the National Fish and Wildlife Foundation Sandy Grant - City cost share: \$257,343 (*included in the Storm Water Utility category below)
Mayor's Poverty Commission funds including the Affordable Housing Trust Fund	FY2015 - \$500,000 FY2016 - \$2,500,000
Subtotal Grant and Operating Funds	\$20,282,652

Capital Projects Funds	FY2015 (9/1/2014 - 6/30/2015) - FY2021 Category Total
Environmental Sustainability	\$16,341,667
Safe, Healthy and Inclusive Communities	\$19,841,667
Storm Water Utility**	\$30,078,867
Wastewater Utility	\$116,166,667
Water Utility	\$85,625,000
Subtotal Capital Projects	\$268,053,867
Stormwater Operating Funds	FY2015 (9/1/2014 - 6/30/2015) - FY2016
Stormwater Utility Operating Budget	\$28,307,044
Subtotal Operating Funds	\$28,307,044
Total Grant, Operating and Capital Program Funds	\$316,643,563

^{*}Includes match for the projects above

<u>The MID-URN Sub-Area proposed for the CDBG-NDR-assisted projects: Current and future expenditures since September 2014:</u>

Operating Funds	FY2021 - FY2065
The City commits to fund Operations & Maintenance (O&M) costs of the proposed CDBG-NDR-assisted projects in the Ohio Creek Watershed and Newton's Creek Watershed over the projects life cycle	\$61,600,000 (\$1,400,000/yr)
Capital Projects**	FY 2015 (9/1/2014 - 6/30/2015) - FY2021

^{**}Excludes Capital Projects allocated directly to the CDBG-NDR-assisted project area below

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Kimball Terrace Culvert Replacement - Ohio	\$1,200,000
	\$1,200,000
Creek Watershed	
F(8) 19/L/12	
Installation of Tide Gauge at Grandy Village –	\$50,000
Ohio Creek Watershed	
700-270,000	
Line Power to Ohio Creek Flood Control Project	\$150,000
1 Sector Statement Statement Sector 100 April	\$130,000
- Ohio Creek Watershed	
5.18,674,11.02	
Westminster Road Way Replacement – Ohio	\$225,000
Creek Watershed	
2000 2000 (2000) ap .000 200 (2000)	The state of the s
Spartan Village Acquisition – Ohio Creek	\$1,200,000
Watershed	\$1,200,000
w atersned	
13-1	
Total	\$64,425,000

This direct financial commitment is subject to the award of CDBG-NDR grant funds.

Sincerely yours,

Marcus D. Jones

City Manager



Office of the City Manager

March 20, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

Re: Commitment of Leverage Resources

The City of Norfolk is committed to working with the Commonwealth of Virginia to increase resilience and mitigate the impact of sea level rise in the Hampton Roads Region. As evidence of this commitment, we are making \$125,000 in supporting commitment funding available to you for the activities directly related to undertaking your CDBG-NDR proposal. The funds were used during December 2014 to support an Urban Land Institute Resilience Technical Panel, the result of which will be used in the development of projects during Phase 2 of the NDRC grant process.

Sincerely,

Marcus D. Jones City Manager



Office of the City Manager 306 Cedar Road Chesapeake, Virginia 23322

Office: (757) 382-6166 Fax (757) 382-6507 TDD: (757) 382-8214

October 21, 2015

The Honorable Terence R. McAuliffe Governor Commonwealth of Virginia Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE: Community Development Block Grant National Disaster Resilience (CDBG-NDR)
Competition Grant Commitment and Pledge of Direct Leverage Funds

Dear Governor McAuliffe:

On October 13, 2015, the Chesapeake City Council unanimously approved execution of the partnership agreement for the U.S. Housing and Urban Development—National Disaster Resilience (HUD CDBG-NDR) Competition. This letter is to confirm that, subject to appropriations, the City of Chesapeake firmly commits to providing a total of \$41,240,000.00 in direct leverage from its Capital Improvement Plan funds for activities as proposed in the Commonwealth of Virginia's HUD CDBG-NDR grant proposal and that all of Chesapeake's committed funds are subject to the award of HUD CDBG-NDR grant funds. The funds committed below are committed through the Capital Improvement Budget and were pledged after the initial publication of the original HUD CDBG-NDR Notice of Funding Availability on September 17, 2014, or, the City of Chesapeake has made a determination, subject to appropriations, to commit these funds to leverage the activities it proposed in the HUD CDBG-NDR competition for activities in Chesapeake's HUD approved Most Impacted and Distressed Unmet Recovery Need (MID-URN) target area. For detailed information on each project activity below, see Exhibit F: Leverage.

The project activities and funding listed below are located in, and will be executed in, the Phase I HUD-approved MID-URN target area, census tracts 214.03, 200.02, 200.03, 201, 202, 203, 204, 205, 206, 207, 208.08, 208.09, 209.03, 209.04:

 22nd St Bridge replacement in target area South Norfolk, South Norfolk watershed

\$18,000,000

 Public works infrastructure replacement and upgrade to increase resiliency in South Norfolk/Liberty Street area, South Norfolk watershed

\$ 1,500,000

The Honorable Terence R. McAuliffe October 21, 2015 Page 2

•	Public works activities to increase resiliency in target area South Norfolk/Oakdale, South Norfolk watershed	\$	5,000,000
•	Drainage improvement activities in target area South Norfolk/ Portlock, South Norfolk watershed	\$	800,000
•	Chesapeake/Hampton Roads Sanitation District wastewater activities in target area South Norfolk area, South Norfolk watershed	\$	8,000,000
•	Five-year public utilities activities in target area Bainbridge Blvd., South Norfolk watershed	\$	7,000,000
•	Long-term maintenance for all Chesapeake activities	\$	940,000
	Total committed funds pledged as leverage:	\$ 4	41,240,000

Sincerely,

James E. Baker City Manager

JEB:KL:sc

City of Newport News



Virginia 23607

2400 Washington Avenue (757) 926-8411 Fax (757) 926-3503

October 26, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, Virginia 23219

Dear Governor McAuliffe:

The City of Newport News is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve resiliency in the Hampton Roads region with Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

This letter represents our supporting commitment of \$10,115,000 for projects that increase Virginia's capacity to build resiliency in the Southeast Community.

Our contribution to this endeavor will come through a combination of programmed and expended project investments to enhance drainage, provide more resilient infrastructure and improve social and economic resiliency in this flood-prone area as evidenced by the list of projects below.

Project Name	Project Costs	Source
Chesapeake Avenue Seawall and Bike Path	\$ 707,000	Grant/City Funds
Urban Stream Restoration and Wetlands	\$ 441,000	Grant/City Funds
Short Street and Christopher Shores Drainage		
Improvements	\$ 840,000	City Funds
27th Street & Buxton Avenue Grade		
Adjustments	\$ 1,472,000	Grant/City Funds
Chesapeake Avenue Tide Gate and Pump		
Station	\$ 855,000	City Funds
Lower Jefferson Avenue Streetscape 12th - 24th		
Streets	\$ 2,000,000	Grant/City Funds
Southeast Neighborhood Grocery Store	\$ 3,800,000	City Funds
Total	\$ 10,115,000	

The Honorable Terence R. McAuliffe Page 2 Community Development Block Grant October 20, 2015

These funds are available to complete the work described above within the grant period.

Sincerely,

James M. Bourey
City Manager

JMB:SMG:mat



RE:

MEMBER JURISDICTIONS

October 16, 2015

CHESAPEAKE

The Honorable Terence R. McAuliffe Governor, Commonwealth of Virginia

Patrick Henry Building, 3rd Floor

FRANKLIN

1111 East Broad Street Richmond, VA 23219

GLOUCESTER

Community Development Block Grant - National Disaster Resilience Competition Phase II: Letter documenting Supporting Commitment of

\$280,194

HAMPTON

Dear Governor McAuliffe:

ISLE OF WIGHT

The Hampton Roads Planning District Commission is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve resiliency in the Hampton Roads region with Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

NEWPORT NEWS

JAMES CITY

This letter represents our supporting commitment of \$280,194 with a 5% local match that increases Virginia's capacity to build resiliency in the Hampton Roads area.

NORFOLK

We are contributing to this endeavor through a funded grant through the Virginia Department of Emergency's Management Hazard Mitigation Grant Program along

PORTSMOUTH

POQUOSON

with a 5% local match to complete a Regional Hazard Mitigation Plan. The general purposes of this plan is to increase regional resiliency by Protecting life and property by reducing the potential for future damages

SMITHFIELD

and economic losses that result from natural hazards; Qualifying for additional grant funding, in both the pre-disaster and post-

disaster environment;

SOUTHAMPTON

Speeding recovery and redevelopment following future disasters Integrate existing flood mitigation documents;

SUFFOLK

SURRY

Demonstrating a firm local commitment to hazard mitigation principles: and comply with state and federal legislative requirements tied to local hazard mitigation planning.

VIRGINIA BEACH

This grant funding was awarded on March 6, 2014, however the contract with the consultant was not signed until October 23, 2014, and the funds are available to complete the work described above within the grant period. This supporting commitment is subject to the award of CDBG-NDR grant funds.

WILLIAMSBURG

Sincerely,

YORK

Robert A. Crum Executive Director

RK/jc

Robert M. Blue Senior Vice President - Regulation, Law, Energy Solutions and Policy Do

Dominion Resources, Inc.

120 Tredegar Street, Richmond, VA 23219

Mailing Address: P.O. Box 26532 Richmond, VA 23261

dom.com

October 26, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE: Community Development Block Grant - National Disaster Resilience Competition Phase II: Letter documenting Supporting Commitment of approximately \$34 million.

Dear Governor McAuliffe:

Dominion is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve resiliency in the Hampton Roads region with Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

This letter represents our supporting commitment of approximately \$34 million in the form of electric transmission system upgrades and EnergyShare funding. These investments will increase Virginia's capacity to build resiliency in the electric system supporting the cities of the Hampton Roads area. In addition to improving and maintaining electrical reliability in the area, the transmission investments will provide the region with greater access to lower-emissions forms of electric generation, including generation resources with no or lower carbon emissions.

The increased funding for EnergyShare will provide additional energy assistance to many customers, including persons with low incomes, the elderly, military veterans and Virginians living with disabilities. Additionally, the EnergyShare funding will support property improvements to weatherize homes, making them more energy efficient over the long term and reducing their energy usage. The more efficient use of energy also will support Virginia's goal of improved resiliency.

This commitment was made effective September 2015 and the funds are available to complete the work described above within the grant period.

Sincerely yours,

alt m. al

Robert M. Blue



blue moon fund

222 W. South Street Charlottesville, VA 22902

October 23, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE: Community Development Block Grant - National Disaster Resilience Competition Phase II: Letter documenting Supporting Commitment of \$2 million.

Dear Governor McAuliffe,

blue moon fund is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve resiliency in the Hampton Roads region with Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

This letter represents our supporting commitment of \$2 million in the form of ten grants to Old Dominion University, the Virginia Institute of Marine Science (VIMS), the Virginia Coastal Policy Center at William & Mary Law School and five other organizations that increase Virginia's capacity to build resiliency in the Hampton Roads region. These grants will launch a sea level rise data repository and portal at VIMS, which will be a valuable tool for planners and decision makers; enable completion of the Intergovernmental Planning Pilot Project, which is developing procedures for coordinating Federal, state and local resilience planning and is critical in Hampton Roads due to the large waterfront areas that are Federal or state property; and greatly expand existing education and training programs on seal level rise adaptation and coastal resilience for professionals (engineers, planners and managers) and the public. All of these initiatives will greatly enhance the ability of Hampton Roads to utilize NDRC funds with greatest possible effectiveness.

In addition to the grants described above, we are working on five additional grants that we expect to be awarded by March 2016. They include high resolution subsidence mapping that is orders of magnitude more accurate than currently available data, enhancement of geographic information systems (GIS) in Hampton Roads and development of data layers that local governments and state agencies need for adaptation and resilience planning, developing an integrated suite of planning tools incorporating "best of breed" tools currently available and filling any capacity gaps identified during the project, and expanding research and analysis support for adaptation and resilience planning across all Virginia universities with relevant programs – no single university has all the expertise that is needed, but collectively they do. The level of funding required for these initiatives is still being estimated, but probably will be on the

order of \$5 million. These initiatives will further increase the ability of the Commonwealth and communities in Hampton Roads to gain the greatest possible benefit from the NDRC funds.

The ten grants mentioned above were awarded in September 2015 and the funds are available to complete the work described above within the grant period. Award of the additional grants described above that currently are under development is subject to the award of CDBG-NDRC grant funds.

Sincerely yours,

Joseph 7. Bouchard

Fellow, blue moon fund

Director, Coastal Virginia Climate Change Adaptation Program

October 1, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE:

Community Development Block Grant - National Disaster Resilience Competition Phase II: Letter documenting Direct Financial Commitment of 20 million dollars

Dear Governor McAuliffe:

S.L. Nusbaum Realty Co. is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve resiliency in the Hampton Roads region with Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

As one of the largest commercial real estate services and development firms in the Southeast, our goal is to find the best, most profitable way to develop sustainable real estate projects. Our commercial property interests include ownership of extensive commercial real estate, including shopping centers, office buildings, and mixed use developments. We manage well over 100 apartment communities with approximately 17,000 residential multifamily units. Additionally, we have developed in excess of 6,000 apartment units and over 6,000,000 square feet of retail space.

This letter represents our firm and direct financial commitment of approximately 20 million dollars in capital expenditure for the development of a 126 unit high quality affordable multifamily residential community in the St. Paul's Quadrant of downtown Norfolk to support the CDBG-NDR proposal in the City of Norfolk NDRC target area. This project will be the first development in this area in more than 25 years and represents the initial effort in the revitalization of the St. Pauls' Quadrant as proposed in the CDBG-NDR application. In an effort to demonstrate a measure of environmental resiliency, the development will make use of innovative, on-site storm water mitigation.

Subject to obtaining all governmental approvals, the project is projected to break ground in early 2016. We wholeheartedly support the city's grant effort and hope the city succeeds in the HUD competition for funding.

Sincerely,

Miles B. Leon President

DEVELOPMENT • PROPERTY MANAGEMENT • LEASING • COMMERCIAL SALES

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Barbara Hamm Lee, Chair Donald Musacchio, Vice Chair Alphonso Albert

Rose Arrington

Robert Soble

Commissioners

Michael Burnette Richard Gresham

October 22, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE: Community Development Block Grant - National Disaster Resilience Competition Phase II:

Letter documenting Direct Financial Commitment of \$15 million for Grant Application

Dear Governor McAuliffe:

The Norfolk Redevelopment and Housing Authority is pleased to join the Commonwealth of Virginia as a partner in its efforts to improve disaster resiliency in the Hampton Roads region utilizing Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

As part of the grant application, this letter represents our direct financial commitment of \$15,000,000 in the form of \$7.7 million in low income housing tax credits awarded in 2015 and \$7.3 million available from a combination of NRHA capital grant funding and private debt financing. As proposed in the CDBG-NDR application, these funds will increase Virginia's capacity to build resiliency in the Grandy Village area located directly in the City of Norfolk NDRC project target area.

The Grandy Village project, a part of the proposed grant application, includes the demolition of outdated public housing units, and the construction of 70 new apartments. The project also includes the construction of a 1500 sq. ft. community office, dedicated open space, associated infrastructure including storm water measures (i.e., expansion of bio-retention area, manufactured water quality inlets, and grass swales), and a new roadway serving the entire community.

These actions will contribute to Virginia's resiliency by improving storm water management for the Grandy Village community as well as providing new energy efficient modern apartments that will replace obsolete 1950s era public housing. Most importantly, it is anticipated that the storm water mitigation improvements will protect Grandy Village from future flood events.

This project received a low income housing tax credit award from the Virginia Housing and Development Authority on July 1, 2015, and the funds will be available to complete



the work described above within the grant period. This supporting commitment is subject to the award of CDBG-NDR grant funds.

Sincerely yours,

John C. Kownack Executive Director

Norfolk Development and Housing Authority



October 16, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

RE: CBDG - National Disaster Resilience Competition Phase II:
Letter documenting Financial Commitments of \$670,000 from Elizabeth River Project

Dear Governor McAuliffe:

The Elizabeth River Project is a community-based non-profit founded in 1993 with the mission to restore the Elizabeth River to the highest practical level of environmental quality through citizen, government and business partnerships. We are pleased to join the Commonwealth of Virginia as a partner in its efforts to improve disaster resiliency in the City of Norfolk utilizing Community Development Block Grant-National Disaster Resilience grant funding.

As part of the grant application, this letter represents our financial commitments after Sept. 2014 of an estimated \$670,000 for the following environmental projects in Norfolk's Most Impacted and Distressed area with Unmet Recovery Needs (MID-URN):

1) Direct financial commitments by Elizabeth River Project in the Elizabeth River watershed within the City of Norfolk's overall MID-URN area:

a) About \$75,000 was expended by Elizabeth River Project through a contract with the City of Norfolk to achieve residential best management practices to improve water quality and reduce flooding in the Elizabeth River watershed, working with River Star Homes during the time period (June 2014 – July 2015).

b) A total of \$300,000 was expended on oyster reef restoration in the Lafayette River, June 2015 – Sept. 2015, (\$100,000 National Fish & Wildlife Foundation – penalty funds, not federal funds; and \$200,000 NOAA Chesapeake Bay Program, federal) to improve water quality and stabilize a more resilient shoreline.

c) An education event, Elizabeth RIVERFest 2015, was held by Elizabeth River Project at Nauticus in Norfolk at a cost of \$40,000 from private sponsors to educate residents about residential best management practices to improve water quality and reduce flooding.

d) A federal grant from the National Fish and Wildlife Foundation to Elizabeth River Project, through the Innovative Nutrient Reduction Grant program, provided about \$50,000 to work with homes and businesses in Norfolk from Sept. 2014 – Oct. 2015 to improve water quality and reduce flooding through their participation in River Star Homes program.

Subtotal: \$465,000

2) Direct financial commitments by Elizabeth River Project in the currently proposed CDBG-NDR-assisted project sub-area (Newtown Creek and Ohio Creek watersheds):

- a) An estimated \$10,000 was expended from a Bank of America Neighborhood Builders grant from Sept 2014 to Sept. 2015 on community outreach in Chesterfield Heights (Ohio Creek watershed; private funding).
- b) A total of \$100,000 is planned for expenditure with construction to begin in March 2016 on a 1-acre oyster reef at Chesterfield Heights (Ohio Creek watershed), federally funded through the National Fish & Wildlife Foundation.
- c) An estimated \$10,000 was expended, Sept. 2014- Oct. 2015, to assist River Star Homes in the Ohio Creek watershed with best management practices using a federally funded grant from the National Fish & Wildlife Foundation.
- d) Another estimated \$10,000 was expended, Sept. 2014-Oct. 2015, for project management to plan environmental restoration activities in the Eastern Branch including the Ohio Creek watershed and Newton Creek watershed with a capacity-building grant from the Chesapeake Bay Funders Trust (federal).
- e) For environmental education activities, NOAA (federal) funding of about \$75,000 was expended Sept. 2014- June 2015 to support student field trips taking place on the Learning Barge at Grandy Village Learning Center, Chesterfield Heights (Ohio Creek watershed).

Subtotal: \$205,000

TOTAL: \$670,000

The proposed grant will represent a vital step forward to improve the environmental resiliency of Norfolk's vulnerable coast. The Elizabeth River Project (www.elizabethriver.org) has two decades of experience with successful construction of on-the-ground environmental improvement projects. We look forward to serving as a key partner during implementation of this grant.

Sincerely

Executive Director



October 23, 2015

The Honorable Terence R. McAuliffe Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219 July 10, 2012

RE: Community Development Block Grant-National Disaster Resilience Competition Phase II: Letter documenting Supporting consulting and technical commitment for the Grant Application

Dear Governor McAuliffe,

On behalf of Purpose Built Communities, it is my honor to support the Commonwealth of Virginia's application for the Community Development Block Grant-National Disaster Resilience (CDBG-NDR) grant funding.

Purpose Built Communities is a non-profit consulting group that helps local leaders implement a comprehensive neighborhood revitalization model that will break the cycle of poverty for low income families while creating healthy and sustainable neighborhoods. Formed in 2009, Purpose Built's experience is based on the revitalization of the East Lake neighborhood in Atlanta, Georgia and was created to respond to the demand from leaders around the country who visited East Lake, and understood its power and potential for creating place-based pathways to prosperity but needed help planning and implementing this cross-sector, long term approach to neighborhood revitalization. Our model is comprised of five core elements: high-quality mixed-income housing; an excellent cradle-through-college education pipeline; community wellness facilities and support services; and a dedicated nonprofit "community quarterback" to guide these strategies within a clearly delineated neighborhood. Purpose Built and the East Lake neighborhood have been recognized as uniquely successful by the White House Office of Neighborhood Revitalization, the former Secretaries of the Departments of Housing and Urban Development and Education, Ben Bernanke, Warren Buffett and others.

As a part of the grant application, this letter represents our supporting commitment to provide the City of Norfolk, along with civic and business leaders who will comprise the Community Quarterback with consulting services and technical assistance. Multiple sites, including the St. Paul's area (Newton's Creek Watershed project area), will be evaluated for revitalization. Our consultant services are valued at an estimated \$250,000 over the next 5 years. The City of Norfolk has made great progress in planning their neighborhood revitalization including unifying key partnerships with public and private sectors.

The City of Norfolk, business and civic leaders have the capacity to fully realize the City's vision by leveraging federal investments, mobilizing the support of the community, creating sustainable partnerships and learning from the East Lake experience. I am confident that the City of Norfolk will be effective in helping families break the cycle of inter-generational poverty in areas like the St. Paul's area located directly in the Newton's Creek Watershed NDRC project target area by creating a sustainable community focused on an excellent education pipeline.

A Community Development Block Grant will significantly accelerate the ability to implement the successful neighborhood revitalization of this community.

Please feel free to contact me with any questions.

Respectfully,

Carol Naughton

President



DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS NORFOLK DISTRICT FORT NORFOLK

> 803 FRONT STREET NORFOLK VA 23510-1011

OCT 27 2015

Executive Office

The Honorable Terence R. McAuliffe Governor of Virginia Patrick Henry Building, 3rd Floor 1111 East Broad Street Richmond, VA 23219

Dear Governor McAuliffe:

I am responding to the Commonwealth's request for information on existing programs and projects within the Norfolk District addressing coastal resiliency. As you are aware, the Norfolk District is working with the Commonwealth and local municipalities to survey and plan for impacts from coastal storms and sea level rise. Appropriations amounts or cost estimates are provided if available. Specific projects by City include:

<u>City of Norfolk:</u> Norfolk Comprehensive Flood Risk Management Study Appropriations: FY16 - \$500k - Future appropriations dependent on study outcome. Willoughby Spit Coastal Storm Risk Management Appropriations (Hurricane Sandy Funded): FY14 and FY15 - \$25M. The Hague Section 205 Flood Risk Management Study, total project cost – to be determined (TBD). Oyster and shoreline restoration through Section 22 Program funding: approximately \$250K. ODU Wetland Restoration Section 206 project completed in 2011 – constructed cost of \$3M.

<u>City of Newport News</u>: Living shoreline conceptual designs through Section 22 Program, total project cost - TBD. Newmarket Creek Hydraulics and Hydrology study in Newport News and Hampton through the Flood Plain Management Services Program, total cost: approximately \$120K.

I hope that this information is helpful for you and addresses your needs. If you have any questions or need any additional information, please feel free to contact me at (757) 201-7601, or Mr. Gregory Steele, my Chief, Water Resources Division, at (757) 201-7764.

Sincerely,

Jason E. Kelly, PMF Colonel, U.S. Army

Commanding

ATTACHMENT B

SOURCES AND USES

COMMONWEALTH OF VIRGINIA

AttBL everage Documentation.pdf



Chesapeake South	Hill Buyout	
HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET	BUDGET	SOURCE
	•	
\$445,000		
\$320,000		
\$122,000		
\$887,000	\$0	
¢cc0,000		
\$975,000		
\$190,000		
\$1,825,000	\$0	
\$6,600,188		
\$6,600,188	\$0	
\$350,000		
	\$445,000 \$320,000 \$122,000 \$122,000 \$660,000 \$975,000 \$190,000 \$1,825,000 \$6,600,188 \$6,600,188	\$445,000 \$320,000 \$122,000 \$122,000 \$660,000 \$975,000 \$190,000 \$1,825,000 \$1,825,000 \$6,600,188 \$6,600,188

	Chesapeake South Hill Buyout		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Clearance & Demolition			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
НМЕР			
Subtotal			
SEWER/STORM DRAINAGE			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Long-Term O/M			
Construction/Improvements			
Subtotal			
WATER			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			

	Chesapeake South Hill Buyout		
	HUD-NDRC NON-NDRC NON-		
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Construction/Improvements			
Subtotal			
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
Coastal Resliency Accelerator			
Subtotal			
et fall fell plants and part to t			
City of Norfolk Direct Leverage - Detailed Below			
TOTAL	60.000.400	40	
TOTAL	\$9,662,188	\$0	

	Chesapeake - M	Chesapeake - MicroMitigation		
	HUD-NDRC	NON-NDRC	NON-NDRC	
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE	
Master Budget				
ADMINISTRATION				
Execution of DHCD Contract				
R/W Agent - Negotiations				
Legal - titles/closing/Appraisals				
R/W City Staff - Monitoring & Accounting				
Staffing				
Execution of Project Contract(s)				
Contract Monitoring				
Construction Completion				
Achievement of Benefits				
Administrative Project Closeout				
Subtotal	\$0	\$0		
PERMANENT RELOCATION				
Owner-Occupied Households				
•	····			
Renter-Occupied Households	•			
Relocation Specialist				
Subtotal	\$0	\$0		
Subtotal		70		
ACQUISITION (Land/Improvements				
but not any easements)				
but not uny casements)				
CLEARANCE & DEMOLITION				
OWNER-OCCUPIED HOUSING REHABILITATION				
MicroMitigation Grants	\$400,000			
Owner-Occupied Construction	· · · · · · · · · · · · · · · · · · ·			
Rehabilitation Specialist			***	
Temporary Relocation				
HMEP				
Subtotal	\$400,000	\$0		
	,,			
SUBSTANTIAL RECONSTRUCTION				
			<u> </u>	

	Chesapeake - MicroMitigation		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Clearance & Demolition			·-
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			-
НМЕР			
Subtotal	,		
SEWER/STORM DRAINAGE			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)		<u></u>	
Temporary Relocation			
Long-Term O/M			
Construction/Improvements			
Subtotal			
WATER	<u> </u>		
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			

	Chesapeake - MicroMitigation		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
	,		
	:		
Construction/Improvements			
Subtotal			
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
Coastal Resliency Accelerator			
Subtotal			
City of Norfolk Direct Leverage - Detailed Below			
TOTAL	\$400,000	\$0	

	Chesapeake - Fernwood Farms Buyout		
BUDGET LINE ITEM	HUD-NDRC	NON-NDRC	NON-NDRC
	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			
R/W Agent - Negotiations	\$425,000		
Legal - titles/closing/Appraisals	\$425,000		
R/W City Staff - Monitoring & Accounting	\$160,000		
Staffing	\$0		
Execution of Project Contract(s)	\$0		
Contract Monitoring	\$0		
Construction Completion	\$0		
Achievement of Benefits	\$0		
Administrative Project Closeout			
Subtotal	\$1,010,000	\$0	
PERMANENT RELOCATION			
Owner-Occupied Households	\$4,650,000		
Renter-Occupied Households Relocation Specialist	\$540,000 \$400,000		w
Subtotal	\$5,590,000	\$0	
	+5,555,655	70	
ACQUISITION (Land/Improvements	\$25,046,675		
but not any easements)	\$25,046,675	\$0	
CLEARANCE & DEMOLITION	\$800,000		
OWNER-OCCUPIED HOUSING REHABILITATION		•	,
MicroMitigation Grants			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
НМЕР			
Subtotal			
SUBSTANTIAL RECONSTRUCTION			

	Chesapeake - Fernwood Farms Buyout		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Clearance & Demolition			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal			
SEWER/STORM DRAINAGE			-
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Long-Term O/M			
•			
Construction/Improvements			
Subtotal			
WATER			
Architect/Engineer/Design	ı		
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			

	Chesapeake - Fernwood Farms Buyout		
	HUD-NDRC NON-NDRC NO		
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
		i	
Construction/Improvements			
Subtotal			
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design			
Inspection			·
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
Coastal Resliency Accelerator			-
Subtotal			
City of Norfall Direct Lawrence Date (L. 1921			
City of Norfolk Direct Leverage - Detailed Below			
TOTAL	622 446 675	60	
TOTAL	\$32,446,675	\$0	

	Chesapeake - Crest Harbor Buyout		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			
R/W Agent - Negotiations	\$390,000		
Legal - titles/closing/Appraisals	\$390,000		
R/W City Staff - Monitoring & Accounting	\$160,000		
	:		
Staffing	\$0		
Execution of Project Contract(s)	\$0		
Contract Monitoring	\$0		
Construction Completion	\$0		
Achievement of Benefits	\$0		
Administrative Project Closeout			
Subtotal	\$940,000	\$0	
PERMANENT RELOCATION			
Owner-Occupied Households	\$4,650,000		<u>-</u>
·			
Renter-Occupied Households	\$450,000		
Relocation Specialist	\$390,000		
Subtotal	\$5,490,000	\$0	
ACQUISITION (Land/Improvements	\$18,195,975		<u> </u>
but not any easements)	\$18,195,975	\$0	
CLEARANCE & DEMOLITION	\$770,000		
OWNER-OCCUPIED HOUSING REHABILITATION			
MicroMitigation Grants			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal			
SUBSTANTIAL RECONSTRUCTION			

	Chesapeake - Crest Harbor Buyout		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			•
Clearance & Demolition			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal			
SEWER/STORM DRAINAGE			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Long-Term O/M			
Construction/Improvements			
Subtotal			
WATER			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			

	Chesapeake - Crest Harbor Buyout			
	HUD-NDRC NON-NDRC N			
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE	
	j			
	[
	i			
Construction/Improvements				
Subtotal				
FLOOD DRAINAGE FACILITIES				
Architect/Engineer/Design				
Inspection				
Acquisition (Easements Only)				
Temporary Relocation				
Construction/Improvements				
Subtotal				
Coastal Resliency Accelerator				
Subtotal				
City of Norfolk Direct Leverage - Detailed Below				
TOTAL	401 001 011	# =		
TOTAL	\$25,395,975	\$0		

	Chesapeake Bainbridge Elevation		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract	\$50,000		
R/W Agent - Negotiations			
Legal - titles/closing/Appraisals			
R/W City Staff - Monitoring & Accounting			
Staffing			
Execution of Project Contract(s)	\$100,000		
Contract Monitoring	\$100,000		
Construction Completion	\$1,000,000		
Achievement of Benefits			
Administrative Project Closeout	\$250,000		
Subtotal .	\$1,500,000	\$0	···
PERMANENT RELOCATION			
Owner-Occupied Households			
Denten Oceanical Households			
Renter-Occupied Households			
Relocation Specialist	40		
Subtotal	\$0	\$0	
ACQUISITION (Land/Improvements	\$5,150,000	\$0	
but not any easements)	\$5,150,000	\$0 \$0	
Jac Hot ally coochients,	\$3,130,000	,	
CLEARANCE & DEMOLITION	\$250,000	\$0	
OWNER-OCCUPIED HOUSING REHABILITATION			
MicroMitigation Grants			<u>. </u>
Owner-Occupied Construction			
Rehabilitation Specialist			***
Temporary Relocation			
НМЕР			
Subtotal	\$0	\$0	
SUBSTANTIAL RECONSTRUCTION			

	Chesapeake Bainbridge Elevation		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Clearance & Demolition			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal	\$0	\$0	
SEWER/STORM DRAINAGE			
Architect/Engineer/Design	\$800,000		
Inspection	\$500,000		<u> </u>
Acquisition (Easements Only)	\$600,000		
Temporary Relocation	\$400,000		
Temperary resocution	Ş400,000 l		City of
Long-Term O/M		\$500,000	Chesapeake
		<i>4500,000</i>	onesapeane
			our s
Compton at its or //www.at.	¢c 000 000	420 000 000	City of
Construction/Improvements Subtotal	\$6,000,000	\$20,000,000	Chesapeake
Subtotal	\$8,300,000	\$20,500,000	<u></u>
WATER			
Architect/Engineer/Design			<u>.</u>
Inspection			
Acquisition (Easements Only)		• • •	
Temporary Relocation			
Construction/Improvements			
Subtotal	\$0	\$0	
	- + -	<u> </u>	
STREETS			
Architect/Engineer/Design	\$1,500,000		
Inspection	\$1,100,000		
Acquisition (Easements Only)	\$500,000		
Temporary Relocation	\$500,000		

Chesapeake Bainbridge Ele			
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			j
G-material Harrison II	440 500 000		
Construction/Improvements	\$12,500,000	4.5	
Subtotal	\$16,100,000	\$0	
FLOOD DRAINAGE FACILITIES			· · · · · · · · · · · · · · · · · · ·
Architect/Engineer/Design	\$2,000,000		
Inspection	\$2,000,000		
Acquisition (Easements Only)	\$1,000,000		
Temporary Relocation	\$0		
Temporary Nelocution	30		
			City of
Construction/Improvements	\$15,000,000	\$800,000	Chesapeake
Subtotal	\$18,000,000	\$800,000	Chesapeake
,,,	<u> </u>	4000,000	
			-
Coastal Resliency Accelerator			
Subtotal	\$0	\$0	<u> </u>
City of Norfolk Direct Leverage - Detailed Below			
TOTAL	\$49,300,000	\$21,300,000	

	Chesapeake Freeman Overpass		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			•
R/W Agent - Negotiations		•	
Legal - titles/closing/Appraisals			
R/W City Staff - Monitoring & Accounting			
Staffing			
Execution of Project Contract(s)			
Contract Monitoring	\$200,000		
Construction Completion	\$550,000		
Achievement of Benefits			
Administrative Project Closeout	\$100,000		
Subtotal	\$850,000	\$0	
	·		
PERMANENT RELOCATION			
Owner-Occupied Households			
		i	
Renter-Occupied Households			
Relocation Specialist			, <u> </u>
Subtotal	\$0	\$0	
ACQUISITION (Land/Improvements		\$0	
but not any easements)	\$0	\$0	
CLEARANCE & DEMOLITION	\$250,000	\$0	
OWNER-OCCUPIED HOUSING REHABILITATION			
MicroMitigation Grants			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
НМЕР			
Subtotal	\$0	\$0	
SUBSTANTIAL RECONSTRUCTION			

	Chesapeake Fre	Chesapeake Freeman Overpass		
BUDGET LINE ITEM	HUD-NDRC	NON-NDRC	NON-NDRC	
	BUDGET	BUDGET	SOURCE	
Clearance & Demolition				
Owner-Occupied Construction				
Rehabilitation Specialist				
Temporary Relocation				
HMEP	- co	60		
Subtotal	\$0	\$0		
				
SEWER/STORM DRAINAGE				
Architect/Engineer/Design	\$200,000			
Inspection	\$100,000			
Acquisition (Easements Only)	\$900,000		,	
Temporary Relocation				
			City of	
Long-Term O/M		\$200,000	Chesapeake	
Construction/Improvements	\$2,000,000			
Subtotal	\$3,200,000	\$200,000		
WATER				
Architect/Engineer/Design				
Inspection				
Acquisition (Easements Only)				
Temporary Relocation				
Construction/Improvements				
Subtotal	\$0	\$0		
STREETS				
Architect/Engineer/Design	\$1,500,000		 	
Inspection	\$1,100,000			
Acquisition (Easements Only)	\$3,000,000		 	
Temporary Relocation	\$2,000,000		<u> </u>	
remporary nelocation	32,000,000		l	

	Chesapeake Freeman Overpass		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			City of
Construction/Improvements	\$13,600,000	\$18,000,000	Chesapeake
Subtotal	\$21,200,000	\$18,000,000	
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design	\$0		
Inspection	\$0		
Acquisition (Easements Only)	\$0		
Temporary Relocation	\$0		
			_
	.		City of
Construction/Improvements	\$0	\$1,500,000	Chesapeake
Subtotal	\$0	\$1,500,000	
Occasion Backward and a second			
Coastal Resliency Accelerator	4.0	4.0	
Subtotal	\$0	\$0	
City of Newfolk Disease Laurence - Detailed Date			
City of Norfolk Direct Leverage - Detailed Below			
TOTAL	\$25,500,000	\$19,700,000	
IVIAL	725,500,000	313,100,000	

	Chesapeake Living Shoreline		
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			
R/W Agent - Negotiations			
Legal - titles/closing/Appraisals			
R/W City Staff - Monitoring & Accounting			
Staffing			
Execution of Project Contract(s)			
Contract Monitoring			
Construction Completion			
Achievement of Benefits			
Administrative Project Closeout			
Subtotal	\$0	\$0	
PERMANENT RELOCATION			
Owner-Occupied Households			
		•	
Renter-Occupied Households			
Relocation Specialist			
Subtotal	\$0	\$0	
ACQUISITION (Land/Improvements	\$0	\$0	· -
but not any easements)	\$0	\$0	
CLEARANCE & DEMOLITION	\$0	\$0	
OWNER-OCCUPIED HOUSING REHABILITATION			,, <u></u>
MicroMitigation Grants			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal	\$0	\$0	
SUBSTANTIAL RECONSTRUCTION			

		Chesapeake Living Shoreline			
Clearance & Demolition		HUD-NDRC	NON-NDRC	NON-NDRC	
Owner-Occupied Construction Rehabilitation Specialist Temporary Relocation HIMEP Subtotal \$0 \$0 \$0 SEWER/STORM DRAINAGE Architect/Engineer/Design \$1,313,105 Inspection \$1,969,657 Acquisition (Easements Only) \$0 Temporary Relocation Long-Term O/M \$160,000 Chesapeake Construction/Improvements Subtotal \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Subtotal Singular Sin	BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE	
Owner-Occupied Construction Rehabilitation Specialist Temporary Relocation HIMEP Subtotal \$0 \$0 \$0 SEWER/STORM DRAINAGE Architect/Engineer/Design \$1,313,105 Inspection \$1,969,657 Acquisition (Easements Only) \$0 Temporary Relocation Long-Term O/M \$160,000 Chesapeake Construction/Improvements Subtotal \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Subtotal Singular Sin			-		
Owner-Occupied Construction Rehabilitation Specialist Temporary Relocation HIMEP Subtotal \$0 \$0 \$0 SEWER/STORM DRAINAGE Architect/Engineer/Design \$1,313,105 Inspection \$1,969,657 Acquisition (Easements Only) \$0 Temporary Relocation Long-Term O/M \$160,000 Chesapeake Construction/Improvements Subtotal \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Subtotal Singular Sin					
Owner-Occupied Construction Rehabilitation Specialist Temporary Relocation HIMEP Subtotal \$0 \$0 \$0 SEWER/STORM DRAINAGE Architect/Engineer/Design \$1,313,105 Inspection \$1,969,657 Acquisition (Easements Only) \$0 Temporary Relocation Long-Term O/M \$160,000 Chesapeake Construction/Improvements Subtotal \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Subtotal Singular Sin					
Owner-Occupied Construction Rehabilitation Specialist Temporary Relocation HIMEP Subtotal \$0 \$0 \$0 SEWER/STORM DRAINAGE Architect/Engineer/Design \$1,313,105 Inspection \$1,969,657 Acquisition (Easements Only) \$0 Temporary Relocation Long-Term O/M \$160,000 Chesapeake Construction/Improvements Subtotal \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Subtotal Singular Sin	Clearance & Demolition				
Rehabilitation Specialist	- · · · · · · · · · · · · · · · · · · ·				
Temporary Relocation					
HMEP \$0			••		
Sewer/storm description					
SEWER/STORM DRAINAGE		ŚO	\$0		
Architect/Engineer/Design			Ψ-		
Architect/Engineer/Design	SENATED (STORM DRAININGE				
Inspection		\$1 212 10E		 	
Acquisition (Easements Only) \$0 Temporary Relocation \$0 City of City of Chesapeake Chesapeake Construction/Improvements \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only) Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0					
City of Chesapeake					
City of Chesapeake					
Long-Term O/M \$160,000 Chesapeake Construction/Improvements \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only) Acquisitio	remporary nelocation	Ş0		City of	
Construction/Improvements \$13,131,050 Subtotal \$16,413,812 \$160,000 WATER *** *** Architect/Engineer/Design *** *** Inspection *** *** Acquisition (Easements Only) *** *** Temporary Relocation *** *** Construction/Improvements *** *** Subtotal *** *** STREETS *** *** Architect/Engineer/Design *** *** Inspection *** *** Acquisition (Easements Only) *** ***	Long Torm O/M		¢160,000	1 -	
Subtotal \$16,413,812 \$160,000 WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
WATER Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)	Subtotal	\$16,413,812	\$160,000		
Architect/Engineer/Design Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)	WATER				
Inspection Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
Acquisition (Easements Only) Temporary Relocation Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
Temporary Relocation Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)	· · · · · · · · · · · · · · · · · · ·				
Construction/Improvements Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
Subtotal \$0 \$0 STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)					
STREETS Architect/Engineer/Design Inspection Acquisition (Easements Only)	Subtotal	ŚO	ŚO		
Architect/Engineer/Design Inspection Acquisition (Easements Only)		70	* ₹		
Architect/Engineer/Design Inspection Acquisition (Easements Only)	STREETS			<u> </u>	
Inspection Acquisition (Easements Only)				· 	
Acquisition (Easements Only)			·		
			 :		

	Chesapeake Living Shoreline					
	HUD-NDRC NON-NDRC NON-					
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE			
		•				
	·					
Construction/Improvements		_				
Subtotal	\$0	\$0				
FLOOD DRAINAGE FACILITIES						
Architect/Engineer/Design						
Inspection						
Acquisition (Easements Only)						
Temporary Relocation						
Construction/Improvements						
Subtotal	\$0	\$0				
Coastal Resliency Accelerator						
Subtotal	\$0	\$0				
,						
City of Norfolk Direct Leverage - Detailed Below						
TOTAL	\$16,413,812	\$160,000				
IVIAL	710,413,612	3100,000				

	Chesapeake Stormwater Biofilter				
	HUD-NDRC	NON-NDRC	NON-NDRC		
BUÐGET LINE ITEM	BUDGET	BUDGET	SOURCE		
Master Budget					
ADMINISTRATION					
Execution of DHCD Contract					
R/W Agent - Negotiations					
Legal - titles/closing/Appraisals					
R/W City Staff - Monitoring & Accounting					
Staffing					
Execution of Project Contract(s)					
Contract Monitoring					
Construction Completion					
Achievement of Benefits					
Administrative Project Closeout					
Subtotal	\$0	\$0			
PERMANENT RELOCATION					
Owner-Occupied Households					
Renter-Occupied Households					
Relocation Specialist					
Subtotal	\$0	\$0			
ACQUISITION (Land/Improvements	\$0	\$0			
but not any easements)	\$0	\$0			
CLEARANCE & DEMOLITION	\$0	\$0			
OWNER-OCCUPIED HOUSING REHABILITATION					
MicroMitigation Grants					
Owner-Occupied Construction					
Rehabilitation Specialist					
Temporary Relocation					
HMEP		•			
Subtotal	\$0	\$0			
SUBSTANTIAL RECONSTRUCTION					

	Chesapeake Stormwater Biofilter			
	HUD-NDRC	NON-NDRC	NON-NDRC	
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE	
			-	
Clearance & Demolition				
Owner-Occupied Construction				
Rehabilitation Specialist				
Temporary Relocation HMEP				
Subtotal	\$0	\$0		
Subtotal	\$0	ŞU		
			1	
SEWER/STORM DRAINAGE			<u> </u>	
Architect/Engineer/Design	\$123,790			
Inspection	\$185,685			
Acquisition (Easements Only)	\$0			
Temporary Relocation	\$0			
			City of	
Long-Term O/M		\$80,000	Chesapeake	
			1	
Construction/Improvements	\$1,237,900			
Subtotal	\$1,547,375	\$80,000	<u> </u>	
WATER				
Architect/Engineer/Design				
Inspection				
Acquisition (Easements Only)				
Temporary Relocation				
Construction/Improvements				
Subtotal	\$0	\$0		
STREETS				
Architect/Engineer/Design				
Inspection				
Acquisition (Easements Only)				
Temporary Relocation				

	Chesapeake Stormwater Biofilter									
	HUD-NDRC NON-NDRC NON-N									
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE							
Construction/Improvements										
Subtotal	\$0	\$0								
FLOOD DRAINAGE FACILITIES										
Architect/Engineer/Design										
Inspection										
Acquisition (Easements Only)										
Temporary Relocation										
Construction/Improvements										
Subtotal	\$0	\$0								
Subtotal	30	ÇÜ								
Coastal Resliency Accelerator										
Subtotal	\$0	\$0								
City of Norfolk Direct Leverage - Detailed Below										
		_								
TOTAL	\$1,547,375	\$80,000								

	Norfolk -Ohio Creek Watershed			
	HUD-NDRC	NON-NDRC	NON-NDRC	
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE	
Master Budget				
ADMINISTRATION				
Execution of DHCD Contract	\$50,000			
R/W Agent - Negotiations				
Legal - titles/closing/Appraisals				
R/W City Staff - Monitoring & Accounting				
Staffing				
Execution of Project Contract(s)	\$200,000			
Contract Monitoring	\$1,115,000			
Construction Completion	\$1,000,000			
Achievement of Benefits	\$800,000			
Administrative Project Closeout	\$200,000			
Subtotal	\$3,365,000	\$0		
PERMANENT RELOCATION				
Owner-Occupied Households		<u>.</u>		
			Norfolk RHA - Grandy VI	
			(Construction of 70 new	
Renter-Occupied Households		\$9,700,000	apartments)	
Relocation Specialist			<u> </u>	
Subtotal	\$0	\$9,700,000		
ACQUISITION (Land/Improvements	\$3,300,000	\$0		
but not any easements)	\$3,300,000	\$0		
,	70,000,000	Ψ.		
CLEARANCE & DEMOLITION	\$0	\$0		
OWNER-OCCUPIED HOUSING REHABILITATION				
MicroMitigation Grants				
Owner-Occupied Construction		***************************************		
Rehabilitation Specialist				
Temporary Relocation			-	
НМЕР				
Subtotal	\$0	\$0		
SUBSTANTIAL RECONSTRUCTION		····		
			<u> </u>	

	Norfolk -Ohio Cre	Norfolk -Ohio Creek Watershed			
	HUD-NDRC	NON-NDRC	NON-NDRC		
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE		
			Norfolk RHA - Grandy Phase VI		
Clearance & Demolition		\$350,000	(Demolition)		
Owner-Occupied Construction			,		
Rehabilitation Specialist					
Temporary Relocation					
HMEP					
Subtotal	\$0	\$350,000			
SEWER/STORM DRAINAGE					
Architect/Engineer/Design	\$7,700,000				
Inspection	\$600,000		-		
Acquisition (Easements Only)					
Temporary Relocation					
Long-Term O/M					
			Norfolk RHA - Grandy Phase VI (storm water improvement s)/Lifecycle		
Construction/Improvements	\$31,900,000	\$5,874,552	0&М		
Subtotal	\$40,200,000	\$5,874,552			
WATER					
Architect/Engineer/Design					
Inspection					
Acquisition (Easements Only)					
Temporary Relocation					
Construction/Improvements					
Subtotal	\$0	\$0			
STREETS		·			
Architect/Engineer/Design	\$700,000				
Inspection	\$110,000				
Acquisition (Easements Only)	\$0				
Temporary Relocation	\$0				

	Norfolk -Ohio Creek Watershed				
	HUD-NDRC NON-NDRC NON-				
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE		
			Norfolk RHA -		
			Grandy Phase		
			VI (internal		
			roads, parking		
			and		
			infrastracture)		
			/Lifecycle		
Construction/Improvements	\$3,100,000	\$3,616,000	О&М		
Subtotal	\$3,910,000	\$3,616,000			
FLOOD DRAINAGE FACILITIES					
Architect/Engineer/Design	\$12,340,000				
Inspection	\$1,000,000				
Acquisition (Easements Only)					
Temporary Relocation	-				
Construction/Improvements	\$51,430,000		City; Lifecycle (
Subtotal	\$64,770,000	\$27,623,200			
	!				
Constal Basilian on Assalanatan					
Coastal Resliency Accelerator					
Subtotal					
City of Norfolk Direct Leverage - Detailed Below		\$340,138,564	<u> </u>		
orty of Norton Direct Leverage - Detailed Below		7340,136,304			
TOTAL	\$115,545,000	\$387,302,316			

	Norfolk - Newtons Creek Watershed				ed
		IUD-NDRC		-NDRC	NON-NDRC
BUDGET LINE ITEM		BUDGET	BUI	DGET	SOURCE
Master Budget					
ADMINISTRATION					
Execution of DHCD Contract	\$	50,000	\$	-	
R/W Agent - Negotiations					***
Legal - titles/closing/Appraisals					
R/W City Staff - Monitoring & Accounting					
Staffing			i		
Execution of Project Contract(s)	\$	200,000	\$	-	
Contract Monitoring	\$	2,872,000	\$	-	
Construction Completion	\$	1,500,000	\$	-	
Achievement of Benefits	\$	800,000	\$	-	
Administrative Project Closeout	\$	200,000	\$	-	
Subtotal	\$	5,622,000	\$	-	
PERMANENT RELOCATION					
Owner-Occupied Households					-
Renter-Occupied Households					
Relocation Specialist					
Subtotal	\$	-	\$	-	
ACQUISITION (Land/Improvements	\$	6,710,000			
but not any easements)	\$	6,710,000	\$	-	
CLEARANCE & DEMOLITION	\$	4,400,000			
OWNER-OCCUPIED HOUSING REHABILITATION					
MicroMitigation Grants					
Owner-Occupied Construction					
Rehabilitation Specialist				•	
Temporary Relocation					
НМЕР					
Subtotal		_			
CURCTANTIAL PECONCEPLICATION					
SUBSTANTIAL RECONSTRUCTION					

	Norfolk - Newtons Creek Watershed				ed
		HUD-NDRC	NOI	N-NDRC	NON-NDRC
BUDGET LINE ITEM		BUDGET	BL	JDGET	SOURCE
Clearance & Demolition					
Owner-Occupied Construction					
Rehabilitation Specialist					
Temporary Relocation					
HMEP					
Subtotal	\$	-	\$	-	
SEWER/STORM DRAINAGE					
Architect/Engineer/Design	\$	7,410,000			
Inspection	\$	620,000			
Acquisition (Easements Only)	- -	020,000			
Temporary Relocation					
Long-Term O/M			\$	880,000	City O&M
Construction / Impression anto	۾ ا	20.000.000			
Construction/Improvements Subtotal	\$ \$	30,860,000	\$	000 000	
Subtotal	- >	38,890,000	Þ	880,000	
WATER					
Architect/Engineer/Design					
Inspection					
Acquisition (Easements Only)					
Temporary Relocation					
Construction/Improvements				_	
Subtotal					
			· · · · · · · · · · · · · · · · · · ·		
STREETS	 				-
Architect/Engineer/Design	\$	3,710,000			
Inspection	\$	310,000			
Acquisition (Easements Only)		, -			
Temporary Relocation					

	Norfolk - Newtons Creek Watershed				ied
	HUD-NDRC NON-NDRC NON-NI				
BUDGET LINE ITEM		BUDGET		BUDGET	SOURCE
					•
					İ
			l		
Construction/Improvements	\$	15,440,000	Ļ		
Subtotal	\$	19,460,000	\$	-	
	_		_		
FLOOD DRAINAGE FACILITIES			<u> </u>		
Architect/Engineer/Design	. \$	21,520,000			
Inspection	\$	1,780,000	_		
Acquisition (Easements Only)			_		
Temporary Relocation			<u> </u>		
			ĺ		
Construction //www.	۾ ا	00 650 000	_ ا		City; Lifecycle
Construction/Improvements	\$	89,650,000	_	28,553,800	O&M
Subtotal	\$	112,950,000	\$	28,553,800	_
					Campa af 1/0.
					Comm. of VA;
					Foundation
					Support,
Coastal Resliency Accelerator	\$	E 000 000	ے ا	7 000 000	Universities
Subtotal	\$	5,000,000 5,000,000			and Colleges
	- - 	5,000,000	\$	7,000,000	
City of Norfolk Direct Leverage - Detailed Below					
5.17 5. 1101101K BILGE ECTCIASE - DELANICA DEIOW					
TOTAL	\$	193,032,000	_	36,433,800	
	ب ا	-22,032,000	ب	30,733,000	l

City of Norfolk - Additional Documentation Direct Leverage

*Directly included in the current budget as part of the proposed			
projects (already included in budget)	Dir	ect Leverage	Source
Lifecycle O&M	\$	57,057,000	City of Norfolk
Grandy Village	\$	19,540,552	NHRA
			Comm. of VA;
			Foundation Support,
Coastal Reslience Accelerator	\$	7,000,000	Universities and Colleges
-		\$83,597,552	

	ı	
Leveraged funds expended (since Sept 2014) or to be expended		
directly in the CDBG-NDR-assisted project sub-area. This leverage		
has/will address(ed) unmet needs and accelerate the		
realization/enhance the outcome of the proposed CDBG-NDR-		
assisted projects in Newton's Creek and Ohio Creek Watershed sub	1	
area in the City of Norfolk (since Sept. 2014)	Direct Leverage	Source
Newton's Creek Watershed: Development of a 126 affordable		
housing units (construction begins in 2016)	\$20,000,000	S.L. Nusbaum Realty
Ohio Creek Watershed: Environmental education activities (Sept.		
2014 - June 2015)	\$75,000	Elizabeth River Project
Ohio Creek Watershed: Environmental restoration planning and		
capacity building (Sept. 2014 - Oct. 2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Assistance to River Start Homes with best		
management practices (Sept. 2014 - Oct.2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Construction of oyster reef to restore		
shoreline (March 2016)	\$100,000	Elizabeth River Project
Ohio Creek Waterhed: Community outreach - Neighborhood		
Builders (Sept. 2014 - Sept 2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Kimball Terrace Culvert Replacement		
(completion 11/17/2014)	\$1,200,000	City of Norfolk
Ohio Creek Watershed: Installation of Tide Gauge at Grandy Village		
(FY2016-2017)	\$50,000	City of Norfolk
Ohio Creek Watershed: Line power to Ohio Creek flood control		
project (FY2017)	\$150,000	City of Norfolk
Ohio Creek Watershed: Westminster road way replacement		
(completed 10/1/2015)	\$225,000	City of Norfolk
Ohio Creek Watershed: Spartan Village acquisition - removal from		
the floodplain (FY2015-FY2020)	\$1,200,000	City of Norfolk
TOTAL	\$23,030,000	

City of Norfolk - Additional Documentation Direct Leverage

Leveraged funds that has/will address(ed) unmet recovery needs	1	
in the remainder of the qualified MID-URN target area outside of		
the proposed CDBG-NDR-assisted project sub-area in the City of		
Norfolk (since Sept. 2014)		
140.15tk (Since Sept. 252-)		\$18.4 million includes -
		City of Norfolk (\$5.5
		million - (*included in
		Storm Water Utility
		1
		capital projects funds
Reach Neurichment along the shareline between Little Creek Inlet		below)) and U.S. Army
Beach Nourishment along the shoreline between Little Creek Inlet	440,000,000	Corps of Engineers
and Willoughby Spit	\$12,900,000	(\$12.9 million)
		¢4 €40 000 t= -1, 1
		\$4,640,000 includes -
		City of Norfolk (\$257,343
		- (*included in Storm
		Water Utility capital
		projects funds below))
		and National Fish and
Eight shoreline restoration projects and development of a green		Wildlife Foundation
infrastructures training program in Lafayette River Watershed	\$4,382,652	Sandy Grant (\$4,382,652)
Mayor's Poverty Commission funds including Affordable Housing		
Trust Fund	\$3,000,000	City of Norfolk
Environmental Sustainability capital projects funds	\$16,341,667	City of Norfolk
Safe, Healthy and Inclusive Communities capital projects funds	\$19,841,667	City of Norfolk
Storm Water Utility capital projects funds*	\$30,078,867	City of Norfolk
Wastewater Utility capital projects funds	\$116,166,667	City of Norfolk
Water Utility capital projects funds	\$85,625,000	City of Norfolk
Stormwater Utility Operating Budget	\$28,307,044	City of Norfolk
Residential best management practices to reduce flooding in the		
Elizabeth River Watershed	\$75,000	Elizabeth River Project
Oyster reef restoration to stabilize shoreline to reduce flooding in		
the Lafayette River	\$300,000	Elizabeth River Project
Community outreach to educate residents about best managmeent		-
practices to reduce flooding	\$40,000	Elizabeth River Project
Flood reduction through Rvier Star Homes program	\$50,000	Elizabeth River Project
TOTAL	\$317,108,564	
Total Direct Leverage; does not include \$83,597,522 sourced in	7017,100,004	
other documentation	\$340,138,564	
	40-0,130,304	I

Product	T	Total	H	HUD NDRC	Non-NDRC	Source of Estimate	Date
Ohio Greek Watershed	3N S	000,081	S	100,081,000	S 000\081\711 S 000\081\711		
Flood Walls, Berms and Living Shoreline	€9	7,101,600	€9	7,101,600	- 8		And the second s
370 LF of Flood Wall Eastern Road	s	310,800	S	310,800	- \$	Kimley-Horn/Arcadis	9/28/2015
810 LF of Flood Wall Grandy Village Shoreline	\$	2,235,600	\$	2,235,600	-	Kimley-Horn/Arcadis	9/28/2015
940 LF of Flood Wall Kimball Terrace	89	2,707,200	S	2,707,200	- S	Kimley-Horn/Arcadis	9/28/2015
2200 LF of Chesterfield Heights Living	↔	1,848,000	\$	1,848,000	- S9	Kimley Horn/Moffat &	9/22/2015
Shoreline						Nichol Report & ERP proposal	
Road Raise	3	35,172,000	છ	35,172,000	-		
80000 CY of Fill (Road Raise and Berm)		2,880,000	⊗	2,880,000	-	Kimley-Horn/Arcadis	9/28/2015
54000 TON of Removal and Disposal of	\$	2,592,000	S	2,592,000	-	Kimley-Horn/Arcadis	9/28/2015
Unsuitable Material (2' Below Berm & Roads)							
2900 LF of Road Construction (Demolition, Pavement, Storm)	\$	3,480,000	\$9	3,480,000	<u>-</u>	Kimley-Horn/Arcadis	9/28/2015
13000 LF of Neighborhood Street Retrofit	\$ 23	23,400,000	89	23,400,000	- € 9	Kimley-Horn/Arcadis	9/28/2015
(Permeable Pavement and Bioretention)							
8400 SF of Kimball Terrace Bridge Construction	€	2,520,000	89	2,520,000	- -	Kimley-Horn/Arcadis	9/28/2015
Campostella Intersection Improvements	\$	300,000	S	300,000	- \$	Kimley-Horn/Arcadis	9/28/2015
Stormwater Management	\$ 20	26,624,000	\$	26,624,000	\$		
River Star Homes Parcel Level Incentive	\$	100,000	S	100,000	-	City of Norfolk	9/24/2015
I ova Tido Cato (Obio Crook Watershod)	Ð	200 000	G	000 009	S	Vimlor Dom/A modia	0/26/2015
Large Line Ouic (Oin) Orech Huier shed	ľ	000,000	•	000,000	9	INTINICY-LIUI II/AI CAUIS	CT07/07/2
70000 TON of Excavation and Disposal of Soil (Detention Basin)	€9 ————————————————————————————————————	3,360,000	\$	3,360,000		Kimley-Horn/Arcadis	9/28/2015
3 Medium Tide Control Devices (Automated Shuice)	\$	720,000	€9	720,000	-	Kimley-Horn/Arcadis	9/28/2015
(comic)							

Product		Total	HUD NDRC	3C	Non-NDRC	Source of Estimate	Date
4 Small Tide Control Devices	\$	384,000	38 7	384,000	- \$	Kimley-Horn/Arcadis	9/28/2015
800 LF of 6'x5' Box Culvert for Underground Detention	⊗	1,440,000	\$ 1,44(1,440,000	-	Kimley-Horn/Arcadis	9/28/2015
Pump Station Ohio Creek (7-48" Pumps.)	8	13,420,000	\$ 13,420,000	000,0	- -	Kimley-Horn/Arcadis	9/28/2015
Pump Station Kimball Wetlands (2-30" Pumps)	s	2,400,000	\$ 2,400	2,400,000	<u>-</u>	Kimley-Horn/Arcadis	9/28/2015
Pump Station E. Chesterfield (2-30" Pumps)	S	2,400,000	\$ 2,400	2,400,000	- €9	Kimley-Horn/Arcadis	9/28/2015
Pump Station W. Chesterfield (1-24" Pumps)	es.	1,200,000	\$ 1,200	1,200,000	ı ۥ	Kimley-Horn/Arcadis	9/28/2015
Pump Station Grandy Village (1-8" Pumps)	€9	600,000)09 \$	000,009	· 69	Kimley-Horn/Arcadis	9/28/2015
Landscape Amenities	69	5,510,656	\$ 5,51(5,510,656	- -	A CALLARY TO A CALLARY THE STREET	
11.5 AC of Waterfront Parks	S	4,010,999	\$ 4,010	4,010,999	- \$	RTKL/Arcadis	9/28/2015
2.9 AC of Sports Fields and Retention	8	793,034	\$ 793	793,034	<u>.</u>	RTKL/Arcadis	9/28/2015
7,200 SF of Rain Gardens	8	127,433	\$ 127	127,433	- \$	RTKL/Arcadis	9/28/2015
15.1 AC of Constructed Wetlands	69	579,191	\$ 579	579,191	-	RTKL/Arcadis	9/28/2015
Permitting and Other	6 /3	7,177,500	\$ 7,177	7,177,500	-		
NEPA Compliance (Assume EIS)	S	870,000	\$ 870	870,000		Kimley-Horn/Arcadis	9/28/2015
38000 SF of Tidal Wetlands Mitigation Costs	6	570,000	\$ 27(570,000	ı ∽	Kimley-Horn/Arcadis	9/28/2015
55000 SF of Royalties to VMRC for conversion of subtital habitat to wetlands	€>	27,500	\$	27,500	√	Kimley-Horn/Arcadis	9/28/2015
Joint Permit Application (JPA) Coordination	€	60,000	99 \$	000,09	<u>-</u>	Kimley-Horn/Arcadis	9/28/2015
Construction Dewatering and Temporary Containment	∞	250,000	\$ 25(250,000	- \$	Arcadis	9/28/2015
Land Acquisition	S	3,000,000	\$ 3,000	3,000,000	ı 89	Kimley-Horn/Arcadis	9/28/2015
Adjustments to Public Utilities	€9	2,400,000	\$ 2,400	2,400,000		Kimley-Horn/Arcadis	9/28/2015
Construction Risk Allowance - Ohio Creek Watershed	€⁄3	8,159,000	\$ 8,159	8,159,000	· •		

Product		Total	Ľ	HUD NDRC	Non-NDRC	Source of Estimate	Date
Construction Contingency based on Conceptual Design	6/3	8,159,000	\$	8,159,000	-	Kimley-Horn/Arcadis	9/28/2015
Design and Support Costs - Ohio Creek Watershed	59	22,437,000	€9:	22,437,000	• •••		
Design Services, Survey & Geotechnical	⇔	22,437,000	se e	22,437,000	<u>•</u>	Kimley-Horn/Arcadis	9/28/2015
Measurements, Permitting, and Construction Administration (Design Oversight)							
Newton's Greek Watershed	\$	194,410,000		S 187,410,000	S =7.000,000		
	⇔	4,224,000			<i>€</i> 9		
700 LF of Flood Wall I-264 Ramp	\$	1,344,000	\$	1,344,000	•	Kimley-Horn/Arcadis	9/28/2015
1500 LF of Flood Wall Dominion Property (Newton Creek East)	\$	2,880,000	S	2,880,000	• •	Kimley-Horn/Arcadis	9/28/2015
Road Raise & Shoreline Berm - South Brambleton	\$	4,668,000	6/2	4,668,000	€		
15000 CY of Fill (Road Raise and Berm)	\$	540,000	€9	540,000	- 8	Kimley-Horn/Arcadis	9/28/2015
11000 TON of Removal and Disposal of Unsuitable Material (2' Below Berm & Roads)	↔	528,000	€9	528,000	- 	Kimley-Horn/Arcadis	9/28/2015
3000 LF of Road Construction (Demo, Pavement, Storm)	∽	3,600,000	€9	3,600,000	€	Kimley-Horn/Arcadis	9/28/2015
Stormwater Management - South Brambleton	6∕9	23,214,400	€9	23,214,400	٠ جع		
Large Tide Gate (Newton's Creek Watershed)	99	600,000	€	600,000	- €	Kimley-Horn/Arcadis	9/28/2015
I15000 TON of Excavation and Disposal of Soil (Detention Basin)	€	5,520,000	S	5,520,000	8	Kimley-Horn/Arcadis	9/28/2015
Small Tide Control Device	6/3	96,000	€>	96,000	.	Kimley-Horn/Arcadis	9/28/2015
800 LF of 6'x5' Box Culvert (Detention Connection)	⇔	1,440,000	99	1,440,000	• •	Kimley-Horn/Arcadis	9/28/2015
540 LF of 2- 120"x72" Box Culverts with Jack & Bore (St. Paul's Quadrant Connection)	≶	2,138,400	€9	2,138,400	1 ≪	Arcadis	9/28/2015

Product		Total	H	HUD NDRC	Non-NDRC	Source of Estimate	Date
Pump Station Newton Creek (7-48" Pumps)	\$9	13,420,000	⊗	13,420,000	<u>-</u>	Kimley-Horn/Arcadis	9/28/2015
Landscape Amenities - South Brambleton	69	410,420	∽	410,420	\$, prince	
10.7 AC of Constructed Wetlands	≶	410,420	s)	410,420		RTKL/Arcadis	9/28/2015
Permitting and Other - South Brambleton	ક્ર	3,270,000	جع	3,270,000			
NEPA Compliance (Assume EIS)	S	870,000	8	870,000	\$ -	Kimley-Horn/Arcadis	9/28/2015
2000 SF of Tidal Wetlands Mitigation Costs	↔	30,000	↔	30,000	- 	Kimley-Horn/Arcadis	9/28/2015
Joint Permit Application (JPA) Coordination	89	000'09	∞	000'09	∞	Kimley-Horn/Arcadis	9/28/2015
Construction Dewatering and Temporary Containment	\$	250,000	62	250,000	±9	Kimley-Horn/Arcadis	9/28/2015
Land Acquisition	\$	2,000,000	8	2,000,000	1 S	Kimley-Horn/Arcadis	9/28/2015
Adjustments to Public Utilities	\$	000'09	€9	000,09	- - -	Kimley-Horn/Arcadis	9/28/2015
Flood Walls and Living Shoreline - Harbor Park	99	42,540,000	6 /3	42,540,000	∽		
Harbor Park Wall	⊗	40,200,000	ક્ર	40,200,000	- \$	Arcadis	9/28/2015
East Water Street Wall	S	600,009	S	000,009	- \$	Arcadis	9/28/2015
East Water Street - I-264 Wall	S	300,000	S	300,000	-	Arcadis	9/28/2015
1200 LF of Harbor Park Living Shore Line	69	1,440,000	69	1,440,000	- - 	Kimley-Horn/Arcadis	9/28/2015
Road Raise and Retrofit - Harbor Park	89	1,020,000	S	1,020,000	- \$		
Norfolk Southern Berm	⊗	900,000	ℹ	900,000	-	Kimley-Horn/Arcadis	9/28/2015
500 LF of East Main Street Curb	€	60,000	છ	000'09	1	Kimley-Horn/Arcadis	9/28/2015
1250 TON of Removal and Disposal of Unsuitable Material (2' Below Berm & Roads)	59	000'09	∽	60,000	i &9	Kimley-Horn/Arcadis	9/28/2015
Stormwater Management - Harbor Park	69	9,425,000	€9	9,425,000	-		
East Water Street Gate	S	600,000	S	600,000		Kimley-Horn/Arcadis	9/28/2015
176500 TON of Excavation and Disposal of Soil (Main Canal and Wadis)	⇔	8,825,000	69	8,825,000	- 59	Kimley-Horn/Arcadis	9/28/2015
Landscape Amenities - Harbor Park	69	6,355,206	∞	6,355,206	-		

Product		Total		HUD NDRC	Non-NDRC	Source of Estimate	Date
10.8 AC of Waterfront Promenade	\$	6,355,206	⊗	6,355,206		RTKL/Arcadis	9/28/2015
Permitting and Other - Harbor Park	s	1,052,500	s	1,052,500	€	and the same of th	
NEPA Compliance (Assume EIS)	89	870,000	\$	870,000	-	Kimley-Horn/Arcadis	9/28/2015
4000 SF of Tidal Wetlands Mitigation Costs	\$	60,000	⊘	000'09	1 69	Kimley-Horn/Arcadis	9/28/2015
25000 SF of Royalties to VMRC for conversion of subtital habitat to wetlands	\$9	62,500	∞	62,500	1 60	Kimley-Horn/Arcadis	9/28/2015
Joint Permit Application (JPA) Coordination	\$	000'09	∽	60,000		Kimley-Horn/Arcadis	9/28/2015
Demolition and Gray Infrastructure - St. Paul's Area	\$	18,040,000	6∕9	18,040,000	± €9		
Building Demolition, Relocation, Counseling, & Vacancy Management	8	4,000,000	ss	4,000,000	-	NHRA	
5850 LF of Road Construction for Re- Development (Pavement, Storm, Sanitary, Water, Wadis)	≶	14,040,000	ss:	14,040,000	-	Arcadis	9/28/2015
Flood Walls and Living Shoreline - St. Paul's Area	⇔	1,074,000	\$	1,074,000	\$		
250 LF of East City Hall Gate Wall	69	360,000	S	360,000	-	Arcadis	9/28/2015
850 LF of Market Street Wall	so .	714,000	⇔	714,000	-	Arcadis	9/28/2015
Road Raise and Retrofit - St. Paul's Area 330 LF of Mariner Street Curb	ee ee	380,760	မှ မ	380,760	so so	Kimlev-Horn/Arcadis	9/28/2015
310 CY of Fill (Road Raise - Charlotte Street)	⇔	11,160	69	11,160	- I	Kimley-Horn/Arcadis	9/28/2015
275 LF of Road Construction (Charlotte Street Demolition, Pavement, Storm)	>>	330,000	⊗	330,000	r €	Kimley-Horn/Arcadis	9/28/2015
Stormwater Management - St. Paul's Area	∞	1,200,000	89	1,200,000	-		
East City Hall Gate	€>	1,200,000	ક્ક	1,200,000	- \$	Kimley-Horn/Arcadis	9/28/2015
Landscape Amenities - St. Paul's Area	6/3	10,326,358	69	10,326,358	ı ∽		
44,400 SF of Rain Gardens	s	785,836	S	785,836	ı €9	RTKL/Arcadis	9/28/2015
11.7 AC of Manicured Parks	S	4,080,755	S	4,080,755	-	RTKL/Arcadis	9/28/2015
44.2 AC of Constructed Wetlands	€>	3,850,000	89	3,850,000	-	RTKL/Arcadis	9/28/2015

Product		Total	EE	HUD NDRC	Non-NDRC	Source of Estimate	Date
5 AC of Water Street Park	ક્ર	1,609,768 \$	€9	1,609,768	∽	RTKL/Arcadis	9/28/2015
Permitting and Other - St. Paul's Area	ક્ક	16,100,000 \$	89	9,100,000	9,100,000 \$ 7,000,000		
Resiliency Campus	69	12,000,000	€9	5,000,000	5,000,000 \$ 7,000,000	City of Norfolk - HR	9/2/2015
				ï	į	Thrive	
Land Acquisition	S	4,100,000 \$	S	4,100,000 \$	\$	Kimley-Horn/Arcadis	9/28/2015
Construction Risk Allowance - Newton's Creek	€9	13,630,000 \$		13,630,000	€9		
Watershed							
Construction Contingency based on	∽	13,630,000 \$		13,630,000	S	Kimlev-Horn/Arcadis	9/28/2015
Conceptual Design						•	
Design and Support Costs - Newton's Creek	6/3	37,480,000 \$	•	37,480,000	± €		
Watershed							
Design Services, Survey & Geotechnical	\$	37,480,000	ક્ર	37,480,000	8	Kimley-Horn/Arcadis	9/28/2015
Measurements, Permitting, and Construction							

Opinion of Probable Cost: Norfolk Coastal Adaptation and Community Transformation Plan

Notes:

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Group/Item	Subtotal	Group Total
Ohio Creek Watershed - Chesterfield Heights and Grandy Village		
Flood Walls and Living Shoreline		\$7,101,600
Road Raise Stormwater Management		\$35,172,000
Landscape Elements		\$26,624,000 \$5,510,656
Other Project Requirements		\$7,177,500
Ohio Creek Watershed Cos	of Work Subtotal	\$81,586,000
	n Risk Allowance	\$8,159,000
25% Design o	and Support Cost	\$22,436,000
Ohlo Creek Watershed	Cost of Work Total	\$112,180,000
Newton's Creek Watershed - South Brambleton, Harbor Park & St. Paul's Area	,	
Flood Walls and Living Shore Line		
South Brambleton	\$4,224,000	\$47,838,000
Harbor Park	\$42,540,000	
St. Paul's Area Road Raise and Retrolit	\$1,074,000	
South Brambleton	\$4,668,000	
Harber Park	\$1,020,000	\$6,068 <i>,</i> 760
St. Paul's Area	\$380,760	
Stormwater Management		
South Brambieton	\$23,214,400	\$33,839,400
Harbor Park	\$600,000	333,037,400
St. Paul's Area	\$10,025,000	
<u>Landscape Elements</u>		
South Brambleton	\$410,420	\$17,091,984
Harbor Park Si. Paul's Area	\$6,355,206 \$10,326,358	
Demolition & Gray Infrastructure	\$10,326,336	
South Brambleton	\$0	
Harbor Park	So	\$18,040,000
Sì. Paul's Area	\$18,040,000	
Other Project Regulrements		
South Brambleton	\$3,270,000	\$13,422,500
Harbor Park	\$1,052,500	\$13,422,500
St. Paul's Area	\$9,100,000	
Newton's Creek Watershed Cost of Work Subtotal		\$136,301,000
10% Construction Risk Allowance		\$13,630,000
25% Design and Support Costs Newton's Creek Watershed Cost of Work Total		\$37,480,000
Newton's Creek Watersned Cost of Work Total		\$187,410,000
	otal Cost of Work	\$299,590,000
O&M Total Annual Cost (See O		\$1,398,950
	t Cycle End Year	2065

Opinion of Probable Cost: Chesterfield Heights & Grandy Village (Ohio Creek Watershed)

Notes:

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Group/ltem	Quantity	Unit	Unit Price	Item total	Group Total
Chesterfield Heig	ghts & Grandy	Village	B	I	
Flood Walls and Living Shoreline					
Flood Wall Eastern Road	370	LF	\$840	\$310,800	
Flood Wall Grandy Village Shoreline	810	1F	\$2,760	\$2,235,600	
Flood Wall Kimbali Terrace	940	LF	\$2,880	\$2,707,200	
Chesterfield Heights Living Shoreline	2200	LF	\$840	\$1,848,000	A= -A
					\$7,101,60
Road Raise (East End.Strathmore, Kimbali Terrace), Retrofit (Westminster, Victoria, Stanh	one Kimbali Terrac	a Mariba	o Charladiald\ and	Charalina Barm	
Fill (Road Raise and Berm)	80,000	CY	S36	\$2,880,000	
Removal and Disposal of Unsuitable Material (2' Below Berm & Roads)	54,000	TON	S48	\$2,592,000	
Road Construction (Demolition, Pavement, Storm)	2,900	LF	\$1,200	\$3,480,000	
Neighborhood Street Retrofit (Permeable Pavement and Bioretention)	13,000	LF	\$1,800	\$23,400,000	
Kimbali Terrace Bridge Construction	8,400	SF	\$300	\$2,520,000	
Campostella Intersection improvements	0,400	EA	\$300,000	\$2,520,000	
Campostella ilitersection improvements		EAI	\$300,000	\$300,000	\$35,172,00
tormwater Management				1	333,172,00
River Star Homes Parcel Level Incentive Program	1	EA	\$100,000	\$100,000	
Large Tide Gate (Ohio Creek Watershed)	1	EA	\$600,000	\$600,000	
Excavation and Disposal of Soil (Detention Basin)	70,000	TON	\$48	\$3,360,000	
Medium Tide Control Devices (Automated Stuice)	3	EA	\$240,000	\$720,000	
Small Tide Control Devices	4	EA	\$96,000	\$384,000	
6'x5' Box Culvert for Underground Detention	800	LF	\$1,800	\$1,440,000	
Pump Station Ohio Creek (7-48" Pumps.)	1	EA	\$13,420,000	\$13,420,000	
Pump Station Kimbali Wetlands (2-30" Pumps)	i	EA	\$2,400,000	\$2,400,000	
Pump Station E. Chesterfield (2-30" Pumps)	- i	EA	\$2,400,000	\$2,400,000	
Pump Station W. Chesterfield (1-24" Pumps)		EA	\$1,200,000	\$1,200,000	-
Pump Station Grandy VIIIage (1-8" Pumps)	i	EA	\$600,000	\$600,000	
	· · · · · · · · · · · · · · · · · ·		4000,000	9000,000	\$26,624,00
andscape Elements					+,,
11.5 AC of Waterfront Parks	1	EA	\$4,010,999	\$4,010,999	
2.9 AC of Sports Fields and Retention	1	EA	\$793,034	\$793,034	
7,200 SF of Rain Gardens	1	EA	\$127,433	\$127,433	
15.1 AC of Constructed Wetlands	1	EΑ	\$579,191	\$579,191	,
					\$5,510,65
Other Items					
NEPA Compliance (Assume EIS)	1	EA	\$870,000	\$870,000	
Tidal Wellands Miligation Costs	38,000	SF	\$15	\$570,000	
Royaltles to VMRC for conversion of subtital habitat to wetlands	55,000	SF	\$0.50	\$27,500	
Joint Permit Application (JPA) Coordination	1	EA	\$60,000.00	\$60,000	
Construction Dewatering and Temporary Containment	1	EA	\$250,000	\$250,000	
Land Acquisition	1	EA	\$3,000,000	\$3,000,000	
Adjustments to Public Utilities	1	EA	\$2,400,000	\$2,400,000	
					\$7,177,50
				st of Work Subtotal	\$81,590,00
				on Risk Allowance	\$8,159,00
			25% Design	and Support Cost	\$22,437,25
				Cost of Work Total	\$112,190,00
				M&Q lounnA	\$730,00

Opinion of Probable Cost: South Brambleton (Newton Creek's Watershed Neighborhood 1)

Notes:

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Group/Item	Quantily	Unit	Unit Price	liem total	Group Total
South	Brambleton				
Flood Walls					
Flood Wall I-264 Ramp	700	LF	\$1,920	\$1,344,000	
Flood Wall Dominion Property (Newton Creek East)	1500	LF	\$1,920	\$2,880,000	
			•		\$4,224,00
Road Raise (Reeves) & Shoreline Berm					
Fill (Road Raise and Berm)	15,000	CY	\$36	\$540,000	
Removal and Disposal of Unsuitable Material (2' Below Berm & Roads)	11,000	TON	\$48	\$528,000	
Road Construction (Demo, Pavement, Storm)	3,000	LF	\$1,200	\$3,600,000	
					\$4,668,000
Stormwater Management	<u> </u>				
Large Tide Gate (Newton's Creek Watershed)	1	EA	\$600,000	\$600,000	
Excavation and Disposal of Soil (Detention Basin)	115,000	TON	\$48	\$5,520,000	
Small Tide Control Device	1	EA	\$96,000	\$96,000	
6'x5' Box Culvert (Detention Connection)	800	LF	\$1,800	\$1,440,000	
2- 120"x72" Box Culverts with Jack & Bore (St. Paul's Quadrant Connection)	540	LF	\$3,960	\$2,138,400	
Pump Station Newton Creek (7-48" Pumps)	1	EA	\$13,420,000	\$13,420,000	
					\$23,214,400
Landscape Elements	,				
10.7 AC of Constructed Wetlands	1	EA	\$410,420	\$410,420	
					\$410,420
Other Items					
NEPA Compliance (Assume EIS)	1	EA	\$870,000	\$870,000	
Tidal Wetlands Mitigation Costs	2,000	SF	\$15	\$30,000	<u>, </u>
Joint Permit Application (JPA) Coordination	1	EA	\$60,000	\$60,000	
Construction Dewatering and Temporary Containment	1	EA	\$250,000	\$250,000	
Land Acquisition	1	EA	\$60,000	\$60,000	
Adjustments to Public Utilities	1	EA	\$2,000,000	\$2,000,000	
	 -				\$3,270,000
				st of Work Subtotal	\$35,790,000
				on Risk Allowance	\$3,579,000
			25% Design	and Support Cost	\$9,842,250
				Cost of Work Total	\$49,210,000

				Annual O&M	\$387,29

Opinion of Probable Cost: Harbor Park (Newton's Creek Watershed Neighborhood 2)

Notes:

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Group/item	Quantity	Unit	Unit Price	Item total	Group Total
Н	larbor Park	·			
lood Walls and Living Shoreline					
Harbor Park Wall	1	EA	\$40,200,000	\$40,200,000	
East Water Street Wall	1	EA	\$600,000	\$600,000	
East Water Street - 1-264 Wall	1	EA	\$300,000	\$300,000	
Harbor Park Living Shore Line	1,200	LF	\$1,200	\$1,440,000	
oad Raise and Retrofit					\$42,540
Norfolk Southern Berm	1 1	EA	\$900,000	\$900,000	_
East Main Street Curb	500	LF	\$120	\$40,000	
Removal and Disposal of Unsuitable Material (2' Below Berm & Roads)	1,250	TON	\$48	\$60,000	
				422,000	\$1,020
ormwater Management					
East Water Street Gate	1	EA	\$600,000	\$600,000	
					\$600
andscape Elements					
10.8 AC of Waterfront Promenade	1	EA	\$6,355,206	\$6,355,206	
other Items					\$6,355
NEPA Compilance (Assume EIS)	. 1	EA	\$870,000	\$870,000	
Tidal Wellands Miligation Costs	4,000	SF	\$15	\$60,000	
Royalties to VMRC for conversion of subtital habital to wetlands	25,000	SF	\$2,50	\$62,500	
Joint Permit Application (JPA) Coordination	1	EA	\$60,000	\$60,000	
			000,000	300,000	\$1,052
			····		4.,000
				Cost of Work Subtotal	\$51,570
	_		10% Constru	ction Risk Allowance	\$5,157
			25% Desi	gn and Support Cost	\$14,181
				Cost of Work Total	\$70,910
				Annual O&M	\$14

Opinion of Probable Cost: St. Paul's Area (Newton's Creek Watershed Neighborhood 3)

Notes

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Group/item	Quantity	Unit	Unit Price	Item total	Group Total
St. Paul's Are	a				
Demolition and Gray Intrastructure					
Building Demolition, Relocation, Counseling, & Vacancy Management	1	EA	\$4,000,000	\$4,000,000	
Road Construction for Re-Development (Pavement, Storm, Sanitary, Water, Wadis)	5,850	LF	\$2,400	\$14,040,000	
			•		\$18,040,000
Flood Walls and Llying Shoreline	,				
East City Hall Gate Wall	250	LF	\$1,440	\$360,000	
Market Street Wall	850	LF	\$840	\$714,000	
Road Raise and Retrofit					\$1,074,000
Mariner Street Curb	330	LF	\$120	\$39,600	
Fill (Road Raise - Charlotte Street)	310	CY	\$120 \$36	\$11,160	
Road Construction (Charlotte Street Demolition, Pavement, Storm)	275	Ţ.	\$1,200	\$330,000	
	270		V1,200	2000,000	\$380,760
Stormwater Management					
East City Hall Gale	1	EA	\$1,200,000	\$1,200,000	
Excavation and Disposal of Soll (Main Canal and Wadis)	176,500	TON	\$50	\$8,825,000	
					\$10,025,000
Landscape Elements					-
44,400 SF of Rain Gardens	1	EΑ	\$785,836	\$785,836	
11.7 AC of Manicured Parks	1	EΑ	\$4,080,755	\$4,080,755	
44.2 AC of Constructed Wetlands	1	EA	\$3,850,000	\$3,850,000	
5 AC of Water Street Park	1 1	EA	\$1,609,768	\$1,609,768	
Oller Hama					\$10,326,358
Other Liems Resiliency Campus	1		4=		
Land Acquisition	1	EA EA	\$5,000,000	\$5,000,000	
rand Vedarinon	1]	EA	\$4,100,000	\$4,100,000	** ***
					\$9,100,000
			Cost of	Work Subtotal	\$48,950,000
10% Construction Risk Allowance					\$4,895,000
			25% Design an		\$13,461,250
				t of Work Total	\$67,310,000
					·
				Annual O&M	\$133,480

	Newport News	- Salters Creek	Watershed
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			
R/W Agent - Negotiations			
Legal - titles/closing/Appraisals			
R/W City Staff - Monitoring & Accounting			
	:		
Staffing			
Execution of Project Contract(s)			
Contract Monitoring	\$195,600		
Construction Completion	\$195,600		
Achievement of Benefits			
Administrative Project Closeout			
Subtotal	\$391,200	\$0	
PERMANENT RELOCATION			
Owner-Occupied Households			
Renter-Occupied Households			
Relocation Specialist			
Subtotal	\$0	\$0	
ACQUISITION (Land/Improvements			
but not any easements)	\$0	\$0	
CLEARANCE & DEMOLITION			
OWNER-OCCUPIED HOUSING REHABILITATION			
MicroMitigation Grants			
Owner-Occupied Construction			
Rehabilitation Specialist	-		· · · · · · · · · · · · · · · · · · ·
Temporary Relocation			
НМЕР			
Subtotal			
SUBSTANTIAL RECONSTRUCTION			

	Newport News	- Salters Creek	Watershed
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			•
Clearance & Demolition			
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP			
Subtotal	\$0	\$0	
SEWER/STORM DRAINAGE			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Long-Term O/M		-	
Construction/Improvements			
Subtotal	\$0	\$0	
WATER			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements	\$11,835,000	\$855,000	
Subtotal	\$11,835,000	\$855,000	
, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			

	Newport News	- Salters Creek	Watershed
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
_			
Construction/Improvements		,	
Subtotal	\$0	\$0	
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design	<u> </u>	<u></u>	
Inspection			
Acquisition (Easements Only)		·	
Temporary Relocation			
			City Of
Construction	4	*	Newport
Construction/Improvements	\$8,443,800	\$9,260,000	News
Subtotal	\$8,443,800	\$9,260,000	
		, <u>, , , , , , , , , , , , , , , , , , </u>	
Constal Parliancy Assolutates			
Coastal Resliency Accelerator Subtotal	·		
Jubiotal			
City of Norfolk Direct Leverage - Detailed Below		· 	
City of Nortonk Direct Leverage - Detailed Below			
TOTAL	\$20,670,000	¢10 11E 000	<u> </u>
TOTAL	\$20,670,000	\$10,115,000	

INCHPOLLACTE DELIVATION	_					
Product		Totai	HUD NDRC	Non-NDRC	Source of Estimate	Date
Chesapeake Ave Seawall Repair	99	6,707,000	000'000 '9 \$	8707,000	Engineer estimate based on previous repair done for the same strucutre	Feb-05
16th Steet Tide Gate and Pump Station	60	12,690,000	\$ 11,835,000	\$855,000	Engineer estimate based on rough estimate done for the same system for a different project in the City	May-13
Urban Stream Restoration and Wetlands	€	3,276,000	\$ 2,835,000	\$441,000	Engineer estimate based on the estimates prepated by consultants for other projects in 2015	Jan-15
Short Street and Christopher Shores Drainage Improvements	89 89	840,000	· ·	\$840,000		
27th Street & Buxton Avenue Grade Adjustments	69	1,472,000	es	\$1,472,000		
Lower Jefferson Avenue Streetscape 12th - 24th Streets	so .	2,000,000	<i>S</i>	\$2,000,000		
Southeast Neighborhood Grocery Store	€9	3,800,000	٠ د	\$3,800,000		
Total	\$ 3	30,785,000	\$ 20,670,000	\$ 10,115,000		

Newport News Proposed Project: Salters Creek Watershed Project

Source	Amount	%	Status
Requested HUD-NDRC	\$20,670,000	67%	Requesting
City of Newport News Capital Improvement Plan	\$10,115,000.00	33%	Approved in the City CIP
Total	\$30,785,000.00	100%	

	Virginia Team Adm	inistration	, , ,=
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract			_
R/W Agent - Negotiations			
Legal - titles/closing/Appraisals			-
R/W City Staff - Monitoring & Accounting			
			\$200,000 VA; \$50,000
Staffing	\$3,934,399	\$250,000.00	ODU
Execution of Project Contract(s)			
Contract Monitoring			
Construction Completion			
Achievement of Benefits		·	
Administrative Project Closeout			
Subtotal	\$3,934,399	\$250,000	
PERMANENT RELOCATION			
Owner-Occupied Households			
Pontor Occurried Hausahalda			
Renter-Occupied Households			
Relocation Specialist Subtotal	40		
Subtotal	\$0	\$0	
ACQUISITION (Land/Improvements			
but not any easements)	\$0	ćo	
but not any casements)	- 30	\$0	
CLEARANCE & DEMOLITION			
OWNER-OCCUPIED HOUSING REHABILITATION			
MicroMitigation Grants		<u> </u>	
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation			
HMEP	- 		
Subtotal			
SUBSTANTIAL RECONSTRUCTION			

	Virginia Team Adm	inistration	
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			,
Clearance & Demolition			i
Owner-Occupied Construction			
Rehabilitation Specialist			
Temporary Relocation		<u> </u>	
HMEP		 -	
Subtotal	<u> </u>	<u> </u>	
Junioral	\$0	\$0	
			
SEWER/STORM DRAINAGE			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)		- ·	
Temporary Relocation	· · · · · · · · · · · · · · · · · ·		
	· -		
Long-Term O/M			
		,	
Construction/Improvements			
Subtotal	\$0	\$0	
WATER			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal			
STREETS			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			<u>_</u> :

	Virginia Team Adm	inistration	
	HUD-NDRC	NON-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	SOURCE
			3
Construction/Improvements			
Subtotal	\$0	\$0	
			-
FLOOD DRAINAGE FACILITIES			
Architect/Engineer/Design			
Inspection			
Acquisition (Easements Only)			
Temporary Relocation			
Construction/Improvements			
Subtotal	\$0	\$0	
		-	
Coastal Resliency Accelerator			
Subtotal			
City of Norfolk Direct Leverage - Detailed Below			
	4		
TOTAL	\$3,934,399	\$250,000	

\$ 47,460

27,600

\$ 4,600

0.575

200

40

6 \$ 19,860

20

38

89

Overall

for 6 years

year

Mileage cost

Round trip mileage

Day & Night trips

Overnight Total

Years

Overnight

Per Diem

Travel Calculation - Norfolk

Total

Total Mileage cost Per \$ 81,120

41,400

\$ 6,900

0.575

200

9

\$ 39,720

40

38

89

17,250 \$ 22,215

\$ 2,875 \$

0.575

200

25

\$ 9

38

89

0.575 \$ 2,300

200

20

9,930

10

38

89

\$ 174,525

					Data	Deputy Director		Conference Iravel	Md	i i i i i i i i i i i i i i i i i i i	Compilance	Governor's Office	Danity					Public	Salety/Homeland	Emergency Management Ren	Governor's Office	Public
Source of Estimate	g.	87000/annual * 6 years = \$522,000; 2 percent escalation each year;	75000/annual * 6 years = 450000; 2 percent escalation each year;	fringe included 70000/annual * 6 years = 390000; 2 percent escalation each year;	Tringe included							\$9,164/person over 6 years * 3 staff	\$3,600 / person over 6 years * 3 staff		1000/month				125/yr*3*6			
Non-NDRC	s	8	9	s	· ·	59	· ·	· •	s	· ·	9	9	5	S	·							
HUD		\$ 646,783	\$ 557,571	\$ 520,400	\$ 53,664	\$ 86,565	\$ 29,175	\$ 27,660	\$ 240,000	8 90,000	5	s	s		59							
Total		\$ 646,783	\$ 557,571	\$ 520,400	\$ 53,664	\$ 86,565	\$ 29,175	\$ 27,660	\$ 240,000	000°06 \$	S 1,408,447	\$ 27,492	10,800	86,987	72,000	2,000	5,500	000'9	2,250		6,204	
Product	Deputy Director	Program Manager	Compliance Specialist	Data and Reporting Specialist		Compliance Specialist Travel	Data Specialist Travel	Deputy Director Travel	Community Engagement - Hampton Roads \$ Planning District Commission - Program Delivery	ity Engagement - Hampton Roads District Commission - Material nent	irect Costs	VITA Charges - Laptops \$	VITA Charges - Phones \$	Deputy Director Salary (10%)	Rent	Furniture	Supplies \$	Copies	Payroll cost		Conference Travel - Governor's Office \$	ThRIVe Team Meetings

6,204 5,445 5,445 6,204 5,445 Overall mileage cost for 6 759 759 126.5 \$ 126.5 0.575 0.575 Rate 220 round trip 220 \$ 5,445 5,445 \$ 5,445 \$ 5,445 6 \$ 5,445 Nights Years erence Travel (DC) - 1 per year, 3 nights assumed
Per Diem
Lodging Per Diem 75%Travel 52 52 52 52 52 \$ 69 69 69 69 69 222 222 222 222 222 ş nor's Office liance

\$ 28,743

\$ 27,225

150 \$ 2,250 **\$ 10,350** 150 \$ 2,250 **\$ 13,500** \$ 54,900 \$ 10,350 \$ 10,350 Mileage \$ 10,350 1,725 1,725 Mileage \$ 1,725 0.575 \$ 0.575 0.575 Rate ThRIVe Team meetings Round LIIP 200 200 200 200 mileage 15 15 15 15 Day trips 9 9 Years gency igement Rep y/Homeland ityRep /Homeland nor's Office Facility Rental

\$ 3,934,399

ThRIVe Administration Derivation of Cost - Salaries

2016	2017	2018	2019	2020	2021		2022 TOTAL
	\$ 88,740	\$ 90,515	\$ 92,325	\$ 94,172	\$ 96,055	\$ 926,76 \$	\$ 646,783
	\$ 76,500	\$ 78,030	\$ 79,591	\$ 81,182 \$	\$ 82,806	\$ 82,806 \$ 84,462	\$ 557,571
	\$ 71,400	\$ 72,828 \$	\$ 74,285		\$ 75,770 \$ 77,286	\$ 78,831	\$ 520,400

MASTER BUDGET

	INIMSTER BODG		
	TOTAL	HUD-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	BUDGET
Master Budget			
ADMINISTRATION			
Execution of DHCD Contract	\$150,000	\$150,000	\$0
R/W Agent - Negotiations	\$1,260,000	\$1,260,000	\$0
Legal - titles/closing/Appraisals	\$1,135,000	\$1,135,000	\$0
R/W City Staff - Monitoring & Accounting	\$442,000	\$442,000	\$0
Staffing	\$4,184,399	\$3,934,399	\$250,000
Execution of Project Contract(s)	\$500,000	\$500,000	\$0
Contract Monitoring	\$4,482,600	\$4,482,600	\$0
Construction Completion	\$4,245,600	\$4,245,600	\$0
Achievement of Benefits	\$1,600,000	\$1,600,000	\$0
Administrative Project Closeout	\$750,000	\$750,000	\$0
Subtotal	\$18,749,599	\$18,499,599	\$250,000
PERMANENT RELOCATION			 -
Owner-Occupied Households	\$9,960,000	\$9,960,000	\$0
Renter-Occupied Households Relocation Specialist	\$11,665,000 \$980,000	\$1,965,000 \$980,000	\$9,700,000
Subtotal	\$22,605,000	\$980,000 \$12,905,000	\$0
	\$22,003,000	312,303,000	\$9,700,000
ACQUISITION (Land/Improvements	\$65,002,838	\$65,002,838	<u> </u>
but not any easements)	\$65,002,838	\$65,002,838	\$0 \$0
sacrocary addentificati	303,002,838	\$03,002,636	30
CLEARANCE & DEMOLITION	\$6,820,000	\$6,820,000	\$0
OWNER-OCCUPIED HOUSING REHABILITATION		<u>. </u>	
MicroMitigation Grants	\$400,000	\$400,000	\$0
Owner-Occupied Construction	\$400,000	\$400,000	\$0
Rehabilitation Specialist	\$0	\$0	\$0 \$0
Temporary Relocation	\$0	\$0 \$0	\$0 \$0
HMEP	\$0	\$0 \$0	\$0 \$0
Subtotal	\$400,000	\$400,000	\$0 \$0
	3400,000	3400,000	30
SUBSTANTIAL RECONSTRUCTION			

MASTER BUDGET

DUDGET LINE ITEM	TOTAL	HUD-NDRC	NON-NDRC
BUDGET LINE ITEM	BUDGET	BUDGET	BUDGET
Clearance & Demolition	\$350,000	\$0	\$350,000
Owner-Occupied Construction	\$0	\$0	\$0
Rehabilitation Specialist	\$0	\$0	\$0
Temporary Relocation	\$0	\$0	\$0
НМЕР	\$0	\$0	\$0
Subtotal	\$350,000	\$0	\$350,000
SEWER/STORM DRAINAGE			
Architect/Engineer/Design	\$17,546,895	\$17,546,895	\$0
Inspection	\$3,975,342	\$3,975,342	\$0
Acquisition (Easements Only)	\$1,500,000	\$1,500,000	\$0
Temporary Relocation	\$400,000	\$400,000	\$0
Temperary fictories	\$ 100,000	\$100,000	
Long-Term O/M	\$1,820,000	\$0	\$1,820,000
	ψ <u>υ</u> /ουσ/ουσ	40	+1,020,000
			•
Construction/Improvements	\$111,003,502	\$85,128,950	\$25,874,552
Subtotal	\$136,245,739	\$108,551,187	\$27,694,552
	Ψ230,243,733	7100,531,107	Q27,054,552
WATER		\$0	\$0
Architect/Engineer/Design	\$0	\$0	\$0
Inspection	\$0	\$0	\$0
Acquisition (Easements Only)	\$0	\$0	\$0
Temporary Relocation	\$0	\$0	\$0
Construction/Improvements	\$12,690,000	\$11,835,000	\$855,000
Subtotal	\$12,690,000	\$11,835,000	\$855,000
STREETS			
Architect/Engineer/Design	\$7,410,000	\$7,410,000	\$0
Inspection	\$2,620,000	\$2,620,000	\$0
Acquisition (Easements Only)	\$3,500,000	\$3,500,000	\$0
Temporary Relocation	\$2,500,000	\$2,500,000	\$0

MASTER BUDGET

	TOTAL	HUD-NDRC	NON NODE	
BUDGET LINE ITEM	BUDGET		NON-NDRC	
DODGET LINE TIENS	BODGET	BUDGET	BUDGET	
Construction/Improvements	\$66,256,000	\$44,640,000	\$21,616,000	
Subtotal	\$82,286,000	\$60,670,000	\$21,616,000	
FLOOD DRAINAGE FACILITIES			,	
Architect/Engineer/Design	\$35,860,000	\$35,860,000	\$0	
Inspection	\$3,780,000	\$3,780,000	\$0	
Acquisition (Easements Only)	\$0	\$0	\$0	
Temporary Relocation	\$0	\$0	\$0	
	<u> </u>	, <u>.</u>		
			;	
Construction/Improvements	\$232,260,800	\$164,523,800	\$67,737,000	
Subtotal	\$271,900,800	\$204,163,800	\$67,737,000	
		<u> </u>	7-17-017-00	
			,	
		,		
,				
Coastal Resliency Accelerator	642 000 000	ĆE 000 000	47 000 5	
Subtotal	\$12,000,000	\$5,000,000	\$7,000,000	
Subtotal	\$12,000,000	\$5,000,000	\$7,000,000	
City of Blorfells Direct Lovers - Date 1 1 D 1	4040 400			
City of Norfolk Direct Leverage - Detailed Below	\$340,138,564	\$0	\$340,138,564	
TOTAL	4000 400 - 00	*		
TOTAL	\$969,188,540	\$493,847,424	\$475,341,116	

City of Norfolk - Additional Documentation Direct Leverage

*Directly included in the current budget as part of the proposed		
projects (already included in budget)	Direct Leverage	Source
Lifecycle O&M	\$ 57,057,000	City of Norfolk
Grandy Village	\$ 19,540,552	NHRA
Coastal Reslience Accelerator		
	\$83,597,552	

	1	
Leveraged funds expended (since Sept 2014) or to be expended		
directly in the CDBG-NDR-assisted project sub-area. This leverage		
has/will address(ed) unmet needs and accelerate the		
realization/enhance the outcome of the proposed CDBG-NDR-		
assisted projects in Newton's Creek and Ohio Creek Watershed sub	-	
area in the City of Norfolk (since Sept. 2014)	Direct Leverage	Source
Newton's Creek Watershed: Development of a 126 affordable		
housing units (construction begins in 2016)	\$20,000,000	S.L. Nusbaum Realty
Ohio Creek Watershed: Environmental education activities (Sept.		
2014 - June 2015)	\$75,000	Elizabeth River Project
Ohio Creek Watershed: Environmental restoration planning and		
capacity building (Sept. 2014 - Oct. 2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Assistance to River Start Homes with best		
management practices (Sept. 2014 - Oct.2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Construction of oyster reef to restore		
shoreline (March 2016)	\$100,000	Elizabeth River Project
Ohio Creek Waterhed: Community outreach - Neighborhood		
Builders (Sept. 2014 - Sept 2015)	\$10,000	Elizabeth River Project
Ohio Creek Watershed: Kimball Terrace Culvert Replacement		
(completion 11/17/2014)	\$1,200,000	City of Norfolk
Ohio Creek Watershed: Installation of Tide Gauge at Grandy Village		
(FY2016-2017)	\$50,000	City of Norfolk
Ohio Creek Watershed: Line power to Ohio Creek flood control		
project (FY2017)	\$150,000	City of Norfolk
Ohio Creek Watershed: Westminster road way replacement		
(completed 10/1/2015)	\$225,000	City of Norfolk
Ohio Creek Watershed: Spartan Village acquisition - removal from		
the floodplain (FY2015-FY2020)	\$1,200,000	City of Norfolk
TOTAL	\$23,030,000	

City of Norfolk - Additional Documentation Direct Leverage

Leveraged funds that has/will address(ed) unmet recovery needs		
in the remainder of the qualified MID-URN target area outside of		
the proposed CDBG-NDR-assisted project sub-area in the City of	İ	
Norfolk (since Sept. 2014)		
		\$18.4 million includes -
		City of Norfolk (\$5.5
		million - (*included in
		Storm Water Utility
		capital projects funds
		below)) and U.S. Army
Beach Nourishment along the shoreline between Little Creek Inlet		Corps of Engineers
and Willoughby Spit	\$12,900,000	(\$12.9 million)
		\$4,640,000 includes -
		City of Norfolk (\$257,343
		- (*included in Storm
		Water Utility capital
		projects funds below))
		and National Fish and
Eight shoreline restoration projects and development of a green		Wildlife Foundation
infrastructures training program in Lafayette River Watershed	\$4,382,652	Sandy Grant (\$4,382,652)
Mayor's Poverty Commission funds including Affordable Housing		
Trust Fund	\$3,000,000	City of Norfolk
Environmental Sustainability capital projects funds	\$16,341,667	City of Norfolk
	İ	
Safe, Healthy and Inclusive Communities capital projects funds		City of Norfolk
Storm Water Utility capital projects funds*		City of Norfolk
Wastewater Utility capital projects funds		City of Norfolk
Water Utility capital projects funds		City of Norfolk
Stormwater Utility Operating Budget	\$28,307,044	City of Norfolk
Residential best management practices to reduce flooding in the		
Elizabeth River Watershed	\$75,000	Elizabeth River Project
Oyster reef restoration to stabilize shoreline to reduce flooding in		
the Lafayette River	\$300,000	Elizabeth River Project
Community outreach to educate residents about best managmeent		
practices to reduce flooding	\$40,000	Elizabeth River Project
Flood reduction through Rvier Star Homes program	\$50,000	Elizabeth River Project
TOTAL	\$317,108,564	Enzabeth Myer Froject
Total Direct Leverage; does not include \$83,597,522 sourced in	7027,100,004	<u> </u>
other documentation	\$340,138,564	