



# THE CITY OF NEW ORLEANS

National Disaster Resilience

Proposed Substantial Amendment 1  
Proposed Adjustments and Reallocations  
Published: December 23, 2020

City of New Orleans NDR Action Plan  
Date Approved By HUD: TBD

**City of New Orleans**  
**National Disaster Resilience Competition Grant**  
**Proposed Substantial Amendment 1 to Action Plan**

**Overview**

The City of New Orleans is the recipient of \$141,260,569.00 in Community Development Block Grant disaster recovery (CDBG-DR) from the U.S. Department of Housing and Urban Development (HUD) for the National Disaster Resilience Competition (NDRC) to assist in undertaking projects and programs that will enhance local communities recover from past disasters while improving their ability to withstand future extreme events.

**Substantial Amendments.**

The following modifications constitute a substantial amendment requiring HUD approval:

1. Any change to the funded portions of the application that HUD determines, based generally on the guidelines of the NOFA (as adjusted for HUD’s scaling and scoping of the award), would present a significant change to the grantee’s capacity to carry out the grant (including loss of a partner without addressing lost capacity through replacement or contingency plan identified in the application);
2. Any change to the funded portions of the application that HUD determines, based generally on the guidelines of the NOFA (as adjusted for HUD’s scaling and scoping of the award), would undermine the grantee’s soundness of approach (including the benefit cost analysis);
3. Any change to the Most Impacted and Distressed target area(s) (a revised area must meet Most Impacted and Distressed threshold requirements in the NOFA, including Appendix G to the NOFA);
4. Any change in program benefit, beneficiaries, or eligibility criteria, and the allocation or reallocation of more than 10 percent of the grant award;
5. Any change to the leverage that was pledged and approved in the grantee’s grant agreement;
6. The addition or deletion of an eligible activity.

The City is publishing a proposed Substantial Amendment 1 for public comment.

Substantial Amendment #1 makes the following changes:

**Urban Water**

- Deletes NDR Milne Campus project, MC2017.
- Adds Milneburg Neighborhood Resilience Project in its place.
- Reallocates \$4,108,143 to the budget of the St. Bernard Neighborhood Campus project.
- Reallocates \$263,625 to the budget of the Community Adaption project.
- Reallocates \$41,000 to the budget of the Water Monitoring Network project.
- Reallocates \$75,000 to the budget of the Energy Redundancy and Monitoring project.
- Reallocates \$2,432,620 from the budget of the Blue and Green Corridors.
- Reallocates \$332,369 from the budget of Dillard Wetlands.
- Reallocates \$1,000,000 from the budget of St. Anthony Green Streets.
- Reallocates \$606,779 from the budget of Mirabeau Water Garden.
- Reallocates \$116,000 from the budget of Microgrids.
- Changes the name of NDR Orleans & London Avenue Canals to Gentilly Canals & Lagoons and the beneficiaries associated with the project.

## General

- Updates Key Personnel section to provide up-to-date personnel working on the NDRC grant.
- Updates have been made to Activity Descriptions of each Urban Water Project and associated Projects inside of the NDRC Grant to reflect current work and scope.
- Updates have been made to ensure that each project captures current proposed accomplishments and beneficiaries
- Changes to the Action Plan are highlighted in yellow in the text.
- The current Action Plan can be reviewed at [http://www.nola.gov/community-development/documents/ndr-competition/ndr-actionplan\\_061617/](http://www.nola.gov/community-development/documents/ndr-competition/ndr-actionplan_061617/).

## Definitions

**Area Benefit:** An area benefit activity is one that benefits all residents in a particular area, where at least 51 percent of the residents are low- to moderate-income (LMI) persons.

**Beneficiaries:** The number of residents expected to benefit from a public improvement. Census data is used to estimate the number of persons within a reasonable radius of infrastructure improvements and what portion of those beneficiaries have low to moderate income.

**Leverage:** To win a competitive grant, the City of New Orleans had to identify other projects that would be constructed according to the disaster resilience goals of the grant. These project funds are identified in the Action Plan as “leverage” or “other funds”. For example, FEMA Hazard Mitigation funds may be used to construct stormwater storage in a public space, and CDBG-DR NDRC funds would be used to add educational signage on flooding risk to the public space. In this example, the FEMA Hazard Mitigation funds are leverage funds.

**Long Term Commitment (LTC):** Long Term Commitments were required during the grant application process for competitors to advance to the second phase of the competition. The City’s long-term commitments were adoption of a Living Wage ordinance, a stormwater management ordinance, and a hazard mitigation plan.

**National Objective:** Community Development Block Grant (CDBG) funded projects must meet one of the three national objectives of the programs, which are 1) benefit to low- and moderate-income (LMI) persons, 2) aid in the prevention or elimination of slums or blight; and 3) meeting a need having a particular urgency (referred to as urgent need).

**Outcome Values (OV):** Outcome values are used to assess if a project is meeting disaster resilience goals of the grant, such as reduction in flooding, improved access to green space, and opportunities for walking and bicycling.

## Public Comment

The comment period on the proposed CDBG-DR NDRC Action Plan Amendment 1 is open as of December 23, 2020. Comments must be received no later than January 22, 2021 5:00pm. The link to the comment card is below.

[https://nola.gov/community-development/documents/isaac-recovery-program/04\\_comment-card/](https://nola.gov/community-development/documents/isaac-recovery-program/04_comment-card/)

The public hearing for proposed Substantial Amendment 1 is January 11, 2021 at 6:00pm via zoom.

The zoom call link is <https://us02web.zoom.us/j/6189105426#success>

At the end of the comment period, all comments will be reviewed, and a City response will be incorporated in a Responses to Public Comment document. A summary of the comments and the City's responses will be submitted to HUD for approval as part of the CDBG-DR NDR Substantial Amendment 1. The NDR Action Plan, Substantial Amendment #1, and any public comments and responses will be posted on the City's website listed below.

<https://nola.gov/resilient-new-orleans/projects/green-infrastructure/ndrc/isaac-recovery-program/>

# Substantial Amendment #1 Summary

Substantial Action Plan Amendment #1 proposes reallocating \$13,825,055.19 of Community Development Block Grants- Disaster Recovery (CDBG-DR) funds between programs, deleting the NDR Milne Campus and replacing it with the NDR Milneburg Neighborhood Stormwater Resilience project, and to change the name of the Orleans and London Avenue Canals to Gentilly Canals and Lagoons.

## **1a) CDBG-DR NDR Funding is Reallocated to:** **Milneburg Neighborhood Stormwater Resilience**

Action Plan Amendment 1 reallocates \$8,776,444.19 to the Milneburg Neighborhood Stormwater Resilience project to manage neighborhood stormwater and reduce localized flooding, while fully retaining the recreational activity areas and facilities.

## **1a) CDBG-DR NDR Funding is Reallocated from:** **NDR Milne Campus**

Action Plan Amendment 1 reallocates the remaining (\$8,776,444.19) from the NDR Milne Campus project. This project had the Milne Campus as the main location to implement green infrastructures to reduce localized flooding, and the Milne Playground as the secondary location. Unfortunately, Milne Campus is not a City Owned property. It is a private property, instead. Milne Campus is managed by the Milne Trust and the City has a lease to use it, which will expire in the 2030s. The Milne Trust's long-term capital strategies and goals no longer converge with the NDR grant's proposed accomplishments and stormwater storage on the Milne Trust property. The Milne Playground, on the contrary, is a City owned property and thus can remain part of this project.

After CNO's internal review with Purchasing, due to the RFQ having a central focus on the Milne Campus, it was recommended to rebid this work and open it up to a broader area. Given that the Milne Campus is located in the Milneburg Neighborhood, which is also a part of the Gentilly District, this neighborhood became the revised project area.

## **1b) CDBG-DR NDR Funding is Reallocated to:** **St. Bernard Neighborhood Campus**

Action Plan Amendment 1 reallocates \$4,108,143 to the St. Bernard Neighborhood Campus Resilience project to maintain the current scope in light of the increased stormwater storage requirements per the updated City/SWBNO Comprehensive Drainage Model (the Model). During design development, the Model had to be updated to address increases in the impervious areas and drainage piping surrounding the project site. These outside influences exacerbated existing flooding issues that are to be mitigated by this project. Stormwater storage requirements went from 270,000 cubic feet in schematic (30%) design to 650,000 cubic feet as we approach final design.

## **1b) CDBG-DR NDR Funding is Reallocated from:** **Blue and Green Corridors, Dillard Wetlands, St. Anthony Green Streets, and Mirabeau Water Garden**

Action Plan Amendment 1 reallocates funding from Blue and Green Corridors (\$2,432,620), Dillard Wetlands (\$332,369), St. Anthony Green Streets (\$1,000,000), and Mirabeau Water Gardens (\$606,779). These Urban

Water projects share stormwater management and recreational goals with St. Bernard Neighborhood campus. The reallocated funds do not reduce the extent of capital improvements for these projects.

**1c) CDBG-DR NDR Funding is Reallocated to:**

**Community Adaptation Program**

Action Plan Amendment 1 reallocates funding \$263,625 to the Community Adaptation program to allow for activity delivery expenses.

**1c) CDBG-DR NDR Funding is Reallocated from:**

**Blue and Green Corridors**

Action Plan Amendment 1 reallocates funding from Blue and Green Corridors (\$263,625). The Community Adaptation Program shares stormwater management goals with Blue and Green Corridors.

**1d) CDBG-DR NDR Funding is Reallocated to:**

**Water Monitoring Network and Energy Redundancy and Monitoring**

Action Plan Amendment 1 reallocates funding to the Water Monitoring Network \$41,000 and Energy Redundancy and Monitoring \$75,000 to allow for activity delivery expenses.

**1d) CDBG-DR NDR Funding is Reallocated from:**

**Microgrids**

Action Plan Amendment 1 reallocates funding from Microgrids (\$116,000).

**Other Technical Changes:**

**Name Change/Beneficiaries Changed**

The Urban Water activity title for NDR Orleans & London Avenue Canals, OALAC2017, will be changed to Gentilly Canals and Lagoons because the Orleans Canal does not fall in the footprint of the Gentilly Resilience District.

**Update Key Personnel Section**

We have updated this section of the Action Plan to keep the citizens of New Orleans updated with the most current personnel, and their respective titles, working on the NDR grant.

## CDBG-DR NDRC Reallocation of Funds for Proposed Substantial Amendment #1

Program Name	Current Action Plan Allocation	Proposed Amendment		Resulting Allocation	Leverage Funds	Total Project Allocation
		From	To			
<b>Urban Water</b>	<b>\$ 110,801,349.00</b>			<b>\$ 110,537,724.00</b>	<b>\$ 95,674,211.00</b>	<b>\$ 206,211,935.00</b>
Blue Green Corridors	\$ 45,244,000.00	\$ (2,432,620.00)		\$ 42,811,380.00	\$ 49,500,000.00	\$ 92,311,380.00
Dillard Wetland	\$ 7,125,930.00	\$ (332,369.00)		\$ 6,793,561.00	\$ 6,500,000.00	\$ 13,293,561.00
Milne Campus	\$ 9,048,800.00	\$ (8,776,444.19)		\$ 272,355.81		\$ 272,355.81
Milneburg Neighborhood	\$ -		\$ 8,776,444.19	\$ 8,776,444.19		\$ 8,776,444.19
Mirabeau Water Garden	\$ 13,007,650.00	\$ (606,779.00)		\$ 12,400,871.00	\$ 12,300,000.00	\$ 24,700,871.00
Orleans & London Ave Canals	\$ 560,843.00	\$ (560,843.00)		\$ -		\$ -
Gentilly Canals & Lagoons	\$ -		\$ 560,843.00	\$ 560,843.00		\$ 560,843.00
Pontilly Neighborhood Green Infrastructure	\$ 3,393,300.00			\$ 3,393,300.00	\$ 13,500,000.00	\$ 16,893,300.00
St. Anthony Green Streets	\$ 21,109,826.00	\$ (1,000,000.00)		\$ 20,109,826.00	\$ 11,672,728.14	\$ 31,782,554.14
St. Bernard Neighborhood Campus	\$ 11,311,000.00		\$ 4,108,143.00	\$ 15,419,143.00	\$ 2,201,483.81	\$ 17,620,626.81
<b>Workforce Development</b>	<b>\$ 3,000,000.00</b>			<b>\$ 3,000,000.00</b>		<b>\$ 3,000,000.00</b>
Workforce Development	\$ 3,000,000.00			\$ 3,000,000.00		\$ 3,000,000.00
<b>Community Adaptation Program</b>	<b>\$ 5,900,000.00</b>			<b>\$ 6,163,625.00</b>		<b>\$ 6,163,625.00</b>
Community Adaptation Program	\$ 5,900,000.00		\$ 263,625.00	\$ 6,163,625.00		\$ 6,163,625.00
<b>Reliable Energy &amp; Smart System</b>	<b>\$ 8,184,385.00</b>			<b>\$ 8,184,385.00</b>		<b>\$ 8,184,385.00</b>
Energy Redundancy & Monitoring	\$ 1,190,178.00		\$ 75,000.00	\$ 1,265,178.00		\$ 1,265,178.00
Microgrids	\$ 5,750,535.00	\$ (116,000.00)		\$ 5,634,535.00		\$ 5,634,535.00
Water Monitoring Network	\$ 1,243,672.00		\$ 41,000.00	\$ 1,284,672.00		\$ 1,284,672.00
<b>Planning &amp; Administration</b>	<b>\$ 13,374,835.00</b>			<b>\$ 13,374,835.00</b>		<b>\$ 13,374,835.00</b>
Administration	\$ 7,063,028.45			\$ 7,063,028.45		\$ 7,063,028.45
Planning	\$ 6,311,806.55			\$ 6,311,806.55		\$ 6,311,806.55
<b>TOTAL</b>	<b>\$ 141,260,569.00</b>	<b>\$ (13,825,055.19)</b>	<b>\$ 13,825,055.19</b>	<b>\$ 141,260,569.00</b>	<b>\$ 95,674,211.95</b>	<b>\$ 236,934,780.95</b>

# Narrative

**Executive Summary:** New Orleans shares with the overall region the physical risks of subsidence, coastal flooding, flooding from intense rainfall events, and loss of power and damage from high-speed wind events. These shocks are exacerbated by the physical stresses of coastal erosion and sea level rise which compound the risk of coastal storm. However, New Orleans' resilience needs differ from much of the region in that its social stresses are more extreme. This raises the importance of connecting New Orleans' physical resilience with its social resilience by focusing on how flood risk is a matter of environmental justice and how the economic growth potential of physical adaptation can be a driver for building income equality and employment opportunity. Building off of the work of the city's resilience strategy for the city, Resilient New Orleans: Strategic actions to shape our future city, as well as a decade of recovery and resilience planning, the New Orleans approach is grounded in the belief that the positive transformation of urban social and physical networks is indelibly linked to local geography and history as a delta city.

Future outcomes of improved quality of life, economic prosperity, and reduced disaster risk, particularly for vulnerable communities, will be realized through a multi-faceted and integrated approach for reshaping the urban delta represented in the following four initiatives:

1. Urban Water – transforming water from a threat into an asset in the public realm;
2. Community Adaptation – adapting private property for stormwater management;
3. Reliable Energy and Smart Systems – enhancing grid reliability and asset monitoring;
4. Workforce Development – training local residents in building the water infrastructure of the future city;

New Orleans is using NDR funds to implement the city's first ever Resilience District in Gentilly. The area is a prime example of 20<sup>th</sup> century urban expansion into drained cypress swamps. In many ways, Gentilly is a microcosm of New Orleans and the greater region. Its history as a place of opportunity for low- and moderate-income households and people of color, combined with its elevated environmental risks, make it an ideal place to combine interventions that build equity, reduce risk, and adapt the city to its natural environment. The City of New Orleans is committed to working with community partners to foster widespread public engagement that facilitates community education, empowerment, and behavioral adaptation to help create a social commitment to resilience and "living with water" that is long lasting. Together, decisive and collective action on Urban Water, Community Adaptation, Reliable Energy and Smart Systems, and Workforce Development will assist our most vulnerable communities to meet critical challenges around flood risk, climate change, energy interruptions, and economic wellbeing at the household, district, and citywide levels while also providing a replicable template for other districts and cities. The goal of NDR- funded projects within the Gentilly Resilience District is not just to reduce risk but also to expand access to neighborhoods of opportunity. The New Orleans Affirmatively Furthering Fair Housing Plan (AFFH), adopted in May 2017, highlights the goal of prioritizing public investments in transit, quality schools, housing, parks and other amenities in underserved communities. The NDR funded projects within this Action Plan seek to improve access to quality park spaces, transportation corridors, and provide infrastructure upgrades and other quality of life improvements for a primarily low- and moderate-income community in New Orleans that is currently underserved by these amenities.

**MID-URN Areas:** In accordance with Appendix B of the NOFA, HUD has defined the MID target area as Orleans Parish. Orleans Parish (City of New Orleans) has remaining unmet recovery needs (URN) related to coastal erosion, energy supply and water management. While the entire city of New Orleans is identified as the NDRC-eligible MID-URN area, this program is primarily focused on the Gentilly Resilience District, a sub-area within the MID-URN. The Gentilly sub-area of focus presents several unique conditions that demonstrate a concentration of the aforementioned unmet resilience needs and is a priority for building resilience, especially for low- and moderate-income (LMI) households.

Situated between ridges that were naturally created thousands of years ago from the river and swamps that originally carved New Orleans' landscape, the sub-area contains neighborhoods that sit between eight feet above sea level to eight feet below sea level. It contains roughly 11,000 households, 64% of which are homeowners. The entire area is 48% LMI, but where over 50% of NDR funds will be invested, in the lowest-lying neighborhoods, the LMI household percentage is 57%.

**Key Agencies, Partners, Positions, Personnel:** New Orleans has developed a seamless and coordinated structure for the management of federal funds from various sources that leverage one another to carry out the City's project portfolio.

The City's Office of Community Development (OCD) manages all HUD funds, and when these funds are used as cost share or leverage to FEMA funds, or when they are employed for capital projects, OCD co-manages the planning, fiscal management, and reporting with the Project Delivery Unit within the Capital Projects Administration.

The Capital Projects Administration and the Department of Public Works have been unified with the Sewerage and Water Board of New Orleans (SWBNO) via a cooperative endeavor agreement and co-location of project management staff. This allows New Orleans to deliver projects efficiently. New Orleans has the internal controls to assure quality and to comply with HUD financial and procurement regulations, as defined by 24 CFR 85.20(b)(3). The City's 2014 financial audit for fiscal year 2013 confirmed that HUD funds are under sound management, demonstrating the ability to maintain the highest standards of fiscal responsibility. OCD will coordinate with the Capital Projects Administration to manage the performance of all partners and sub-recipients that use NDR funds to ensure that they are budgeted, expended, and reported on in accordance with HUD guidelines and within the project timeline. The following individuals will guide the planning, design, and implementation of projects supported with NDR funds. The role each individual will play in carrying out NDR-funded projects follows their title.

The working relationships among individuals and departments are further detailed in the organizational chart that follows:

- Gilbert Montano - Chief Administrative Officer
- Ellen Lee – Director, Office of Economic Development: HUD Liaison
- Marjorianna B. Willman – Director, Office of Community Development
- Ramsey Green - Deputy Chief Administrative Officer and Chief Resilience Officer
- Ghassan Korban -- Executive Director, Sewerage and Water Board (SWBNO)
- Joseph Threat, Sr. – Project Delivery Unit Manager
- Keith LaGrange – Director of Public Works
- Brenda Breaux – Executive Director, New Orleans Redevelopment Authority (NORA)
- Robert Turner – Deputy General Superintendent, Sewerage and Water Board
- Vincent Smith – Director Capital Projects Administration
- Robert Rivers – Director, City Planning Commission
- Sarah McLaughlin Porteous – Director, Special Projects and Strategic Engagement Office
- Mary Kincaid – Sustainable Infrastructure Program Manager
- Corcherrie Allen- Disaster Programs Manager

The following are key NDR partners:

**Sewerage and Water Board of New Orleans (SWBNO).** A public agency that owns and operates New Orleans' potable water supply, drainage system, and sewerage system, SWBNO has recently undertaken a massive \$3.3 billion capital improvement program to repair and upgrade this extensive, aging system along with \$2.5 million dedicated to green infrastructure. A cooperative endeavor agreement between SWBNO and the City of New Orleans' Department of Public Works (DPW) enables the close coordination of all public works projects through an integrated project management

structure. These actions, along with governance enhancements, such as adding groundwater to its charter, have established SWBNO's comprehensive role in water management.

**New Orleans Redevelopment Authority (NORA)** A public agency and key partner in the redevelopment of storm-damaged and underinvested neighborhoods, NORA has returned over 3,000 properties to commerce from the CDBG-DR-funded Road Home buyout program, invested over \$30 million in NSP2 funds to create more than 450 units of affordable housing, and invested \$8.3 million in CDBG-DR funds in catalytic commercial revitalization projects. In combination, these projects have leveraged over \$184.9 million in private investment and created 653 permanent jobs. NORA also owns and maintains a portfolio of more than 2,000 vacant lots across the city, most of which are in low-lying areas with substantial flood risk or areas where the market cannot support development. NORA has been repurposing selected vacant lots for stormwater management, ecological restoration, urban agriculture, and community gathering spaces. NORA is building upon this work of neighborhood reinvestment and green infrastructure as the lead agency for developing the city's resilience strategy.

**Trust for Public Land.** The Trust for Public Land (TPL) is a national leader in creating parks and protecting land for people. Since 1972, TPL has protected more than 3 million acres, completed more than 5,200 park and conservation projects in the United States, and incorporated green infrastructure elements into its urban projects. TPL was instrumental in land acquisition for the Lafitte Greenway and the Orleans Land Bridge, two major resilience-enhancing projects in New Orleans. TPL has already begun to augment the City of New Orleans' capacity by building the Climate-Smart Cities tool for the City. This GIS platform provides a spatial analysis that can deliver insight into the risks and benefits of implementing green infrastructure projects in relation to vulnerable populations and their associated climate risks of extreme heat, flooding, and mobility.

**Deltares.** The world's leading research organization for coastal, deltaic cities, Deltares has decades of experience with the technical challenges of soil subsidence, groundwater management, coastal health, and flood protection. Deltares has already raised New Orleans' capacity by consulting through several learning and design exchanges supported by the Royal Netherlands Embassy, called Dutch Dialogues, and through the Greater New Orleans Urban Water Plan, the region's blueprint for living with water. Currently, Deltares is supporting New Orleans on research and strategy through an agreement with the City of New Orleans and SWBNO and as a technical assistance provider through the 100 Resilient Cities program.

**Waggoner & Ball Architects.** Waggoner & Ball Architects is an architecture and planning firm with more than 30 years' experience. The firm's knowledge and co-creation of holistic resilience strategies has been recognized by the American Institute of Architects Honor Awards and the American Planning Association State and National Excellence Awards. The firm initiated Dutch Dialogues, served as principal authors of the Greater New Orleans Urban Water Plan, and provided technical assistance in the development of the NDRC proposal.

**Tulane-Xavier Center for Bioenvironmental Research.** For the past decade, the Tulane-Xavier Center for Bioenvironmental Research (CBR) has undertaken social-ecological (hereafter referred to as "socioecology") research to understand the immediate and long-term effects of Hurricane Katrina on the City of New Orleans, including redevelopment strategies that have reshaped the built and natural environmental landscapes of the City. The CBR urban socioecology program has four areas of emphasis, each focusing on different aspects of the urban environment: (1) Urban forestry and associated ecosystem services, (2) Commensal rodent demography and rodent-borne pathogens, (3) Socio-demographics and risk perception, (4) Remote sensing and GIS-based urban analytics with quantitative predictive modeling.

**Sandia National Laboratories** For more than 60 years, Sandia has delivered essential science and technology to resolve the nation's most challenging security issues. Sandia National Laboratories is operated and managed by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation. Sandia Corporation operates Sandia National Laboratories as a contractor for the U.S. Department of Energy's National Nuclear Security Administration (NNSA) and

supports numerous federal, state, and local government agencies, companies, and organizations. Sandia has already produced feasibility studies and project designs for microgrids in New Orleans.

**Activity Title: NDR Blue Green Corridors**

<b><u>Budget:</u></b> <b><u>(\$42,811,380.00)</u></b>	<b><u>Other Funds:</u></b> <b><u>(\$49,500,000.00)</u></b>	<b><u>National Objective:</u></b> <b><u>LMI</u></b>
<b><u>Benefit Report Type:</u></b>	<b><u>FEMA PA</u></b> <b><u>Area Benefit (Census)</u></b>	
<b><u>Proposed Beneficiaries:</u></b>	<b><u>(61.46%)</u></b>	<b><u># of Persons 5540 TOTAL 2410</u></b> <b><u>LOW 995 MOD</u></b>
<b><u>Proposed Accomplishments:</u></b>	<b><u># of acres of newly added or improved green space: 5.24</u></b> <b><u># linear feet of bicycle or pedestrian paths added or improved: 15,800</u></b>	<b><u># of cubic feet of stormwater storage added: 1,750,000</u></b> <b><u># of trees planted: 101</u></b>

**Revised Activity Description:**

Green corridors consist of wide bioswales in medians, new tree canopy, and walking paths. Blue corridors will collect stormwater from streets by enhancing existing wide medians with circulating stormwater storage using native plantings and weirs. The medians will be enhanced with play areas, trees, and walking paths to enhance the green space.

**Original Activity Description:**

Green corridors consist of wide bioswales in medians, new tree canopy and permeable sidewalks. Blue corridors consist of curb cuts that will allow stormwater from streets to be collected by enhancing existing wide medians

**Activity Title: NDR Dillard Wetland**

<b><u>Budget:</u></b> <b><u>(\$6,793,561.00)</u></b>	<b><u>Other Funds:</u></b> <b><u>(\$6,500,000.00)</u></b>	<b><u>National Objective:</u></b> <b><u>LMI</u></b>
<b><u>Benefit Report Type:</u></b>	<b><u>Area Benefit (Census)</u></b>	
<b><u>Proposed Beneficiaries:</u></b>	<b><u>(56.12%)</u></b>	<b><u># of Persons 7190 TOTAL 2755</u></b> <b><u>LOW 1280 MOD</u></b>
<b><u>Proposed Accomplishments:</u></b>	<b><u># acres of newly added or improved green space: 28.5</u></b> <b><u># of invasive species trees removed: 100</u></b>	<b><u># of cubic feet of stormwater storage added: 1</u></b> <b><u># linear feet of pedestrian or bicycle paths added or improved: 1</u></b>

**Revised Activity Description:**

This project transforms the site into an educational and recreational natural preserve open to the public and schools. Educational signage will allow the user to learn about the role of native plants in stormwater management, the role of various fauna in vector management, and the forested wetlands ecosystem. Permeable walking paths will allow the user to experience a forested wetland within city limits. Weirs or other water control structures will accept stormwater from the surface system, store stormwater on the parcel, and slowly release stormwater to the drainage system.

Original Activity Description:

This project transforms the site into an educational and recreational natural preserve open to the public and schools. Proposed accomplishments measured by area not length.

**Activity Title: NDR Milneburg Neighborhood Stormwater Resilience (NDR Milne Campus)**

**Budget (\$8,776,444.19)**

**National Objective: LMI**

**Benefit Report Type: Area Benefit (Census)**

**Proposed Beneficiaries: (59.48%)**

**# of Persons 4220 TOTAL 1540  
LOW 970 MOD**

**Proposed Accomplishments: # acres of newly added or improved green space: 1**

**# of cubic feet of stormwater storage added: 1**

**# linear feet of pedestrian or bicycle paths added or improved: 1**

**# of trees planted: 1**

Enhancements to City-owned sites located within the Milneburg Neighborhood include site improvements to Milne Playground (2500 Filmore Avenue) and other City-owned properties to be identified during design. The sites will be redesigned and reengineered to manage neighborhood stormwater and reduce localized flooding, while fully retaining the recreational activity areas and facilities. The sites will not only capture surface runoff but also extract stormwater from surrounding subsurface drainage pipes, such as the Prentiss Avenue Canal, to reduce the runoff flow rates and volumes that currently overburden the municipal drainage system. The design concept will create a green infrastructure network including but not limited to bioretention cells, bioswales, pervious paving, engineered sports fields, and subsurface storage.

**Activity Title: NDR Mirabeau Water Garden**

**Budget: (\$12,400,871.00)**

**Other Funds: (\$12,300,000.00)  
FEMA HM**

**National Objective: LMI**

**Benefit Report Type: Area Benefit (Census)**

**Proposed Beneficiaries: (51.69%)**

**# of Persons 4595 TOTAL 1675  
LOW 700 MOD**

**Proposed Accomplishments: #of cubic feet of stormwater storage added: 1,109,116**

**# of trees planted: 500**

**# linear feet of pedestrian or bicycle paths added or improved: 3,000**

**# acres of newly added or improved green space: 25**

Revised Activity Description:

Transformation of a 25-acre cleared site into an engineered Blue-Green Parkland. Water will be stored in lagoons and gradually emptied by weirs. Educational buildings and signage will offer education in climate, stormwater management, green infrastructure, and public health. Walking paths and play lawns will provide recreational opportunities alongside climate education.

Original Activity Description:

Transformation of a 25 acre cleared site into an engineered Blue-Green Parkland. Proposed accomplishments will be updated within 90 days. The proposed accomplishment data is measured by area not length.

**Activity Title: NDR Gentilly Canals and Lagoons**

**Budget (\$560,843.00)**

**National Objective: LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(55.12%)**

**# of Persons TOTAL 40315  
14524 LOW 7696 MOD**

**Proposed Accomplishments:**

**# of LMI individuals within 0.5  
mile of new or improved public  
art: 5,250**

Revised Activity Description:

Public Art and Awareness Campaign related to canals and lagoons in the Gentilly District. Public art will be selected around the themes of climate risk awareness, urban heat, or flooding risk.

Original Activity Description:

Public Art and Awareness Campaign related to canals.

**Activity Title: NDR Pontilly Neighborhood Green Infrastructure**

**Budget (3,393,300.00)**

**Other Funds (\$13,500,000.00)  
FEMA HM**

**National Objective: LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(57.14%)**

**# of Persons 2345 TOTAL 960  
LOW 380 MOD**

**Proposed Accomplishments:**

**# acres of newly added or  
improved green space: 1.5  
  
# linear feet of pedestrian or  
bicycle paths added or  
improved: 300**

**# of trees planted: 25**

**Revised Activity Description:**

Integration of improvements to the Dwyer Canal with a leverage network of green infrastructure interventions along streets, in alleyways and within vacant lots in the Pontchartrain Park and Gentilly Woods neighborhoods. Improvements to Dwyer Canal include a pedestrian bridge to connect the two neighborhoods and access the linear park along the canal.

**Original Activity Description:**

Integration of improvements to the Dwyer Canal with a network of green infrastructure interventions along streets, in alleyways and within vacant lots in the Pontchartrain Park and Gentilly Woods neighborhoods. Proposed accomplishments are measured by area not length.

**Activity Title: NDR St. Anthony Green Streets**

**Budget (\$20,109,826.00)**

**Other Funds (\$10,005,119.00)  
FEMA PA**

**National Objective: LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(58.90%)**

**# of Persons 2190 TOTAL 975  
LOW 315 MOD**

**Proposed Accomplishments:**

**# of cubic feet of stormwater  
storage added: 300,000  
# of linear feet of pedestrian or  
bicycle path added or  
improved: 18,500**

**acres of newly added or  
improved green space: 3.5**

**Revised Activity Description:**

Improved public green space (Gatto Playground and Filmore Park) and green infrastructure will be created. Public green spaces will include features to engage the community outdoors, including benches, shade tree canopies, rubber surfaces with play equipment and shade structures, half basketball court, baseball backstop and walking trails. Below these areas, underground stormwater storage chambers will detain stormwater.

Green Infrastructure enhancements include street and curb bioswales and bump-outs, permeable sidewalks, new street trees, subsurface water storage and rain gardens in vacant, publicly owned parcels and roadside public rights-of-way. Other funds have been leveraged to rehabilitate the neighborhood’s aging drainage system, resulting in a consolidated and resilient “gray meets green” stormwater drainage solution in this community.

**Original Activity Description:**

Green Infrastructure enhancements such as street and curb bioswales and bump-outs, permeable sidewalks, new street trees, subsurface water storage and rain gardens in vacant publicly owned parcels. Accomplishment data is measured by area not length

**Activity Title: NDR St. Bernard Neighborhood Campus**

**Budget: (\$15,419,143.00)**

**Other Funds (\$4,108,143.00)**  
**FEMA PA**

**National Objective: LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(67.74%)**

**# of Persons 930 TOTAL 330**  
**LOW 300 MOD**

**Proposed Accomplishments:**

**# of cubic feet of stormwater**  
**storage: 600,000**  
**# of linear feet of pedestrian or**  
**bicycle path added or**  
**improved: 1700**

**# of acres of newly added or**  
**improved green space: 7**

**Revised Activity Description:**

Improved public green space (football and baseball fields) will be created adjacent to the new McDonogh 35 College Preparatory High School. Below the public green spaces, underground stormwater storage chambers will retain/detain stormwater. Green infrastructure (rain gardens) will be created to detain and filter stormwater at storm inlets within neighborhood intersections east and southeast of the athletic fields.

In addition to storing significant amounts of stormwater underneath the high-performance football and baseball fields, the athletic complex will include recreational amenities such as high school regulation running track, a building for concessions and equipment storage, basketball court and spectator bleachers. Educational water features will be placed along walking trails/paths that meander throughout the project limits. These installations will raise awareness of water's role in the New Orleans urban environment through interactive activities. Other funds have been leveraged to facilitate tie-in of the rain gardens to the neighborhood's drainage system and repair street damages in the vicinity of the rain gardens, many of which obstruct the stormwater as it flows toward the rain gardens and adjacent city catch basins.

**Original Activity Description:**

Construction of a high performance football field that stores significant amounts of stormwater and includes perimeter berms. In addition, the City will construct an educational water playground that will raise awareness of water's role in the New Orleans urban environment through interactive activities. Proposed accomplishment data is measured by area not length.

**Activity Title: NDR Workforce Development**

**Budget: (\$3,000,000)**

**National Objective: LMI**

**Benefit Report Type:**

**Direct (Person)**

**Proposed Beneficiaries:**

**# of people who completed**  
**water sector job training: 100**

**# of people who enrolled in**  
**water sector job training**  
**programs: 125**

~~# of people completing trained and hired in water sector related activities: 100~~

**Revised Activity Description:**

Provide opportunities for skilled employment and will focus on connecting unemployed and under-employed New Orleanians to a growing "water economy" through sustained outreach and job training.

**Original Activity Description:**

Provide opportunities for skilled employment and will focus on connecting unemployed and under-employed New Orleanians to a growing "water economy" through sustained outreach and job training. Preliminary measures will be updated in 90 days

**Activity Title: NDR Retrofit Private Properties - Narrative**

**Budget: (\$6,163,625.00)**

**National Objective: LMI**

**Benefit Report Type: Direct (Households)**

<b><u>Proposed Beneficiaries:</u></b>	<b><u># Owner Households 140</u></b>	<b><u># of Households 140 TOTAL</u></b>
	<b><u>TOTAL 20 LOW 120 MOD</u></b>	<b><u>20 LOW 120 MOD</u></b>

<b><u>Proposed Accomplishments:</u></b>	<b><u># of Single-family Units 140</u></b>	<b><u># of Housing Units 140</u></b>
		<b><u># of Properties 140</u></b>

**Revised Activity Description:**

The Community Adaptation Program (CAP) provides funding for the design and installation of a range of small-scale stormwater management interventions that help manage flooding around home and neighborhoods. These measures will reduce the effects of rainstorms that result in standing water on private property and in neighborhoods as more owners participate. While the City is working to manage water better on public spaces, low to moderate Gently homeownrs have an opportunity to take action with their own property through CAP.

**Original Activity Description:**

Provide LMI private property owners with improvement of their property with energy efficiency, stormwater management, home elevation and storm resilience features. Program Delivery costs are also included.

**Activity Title: NDR Energy Redundancy & Monitoring**

**Budget: (\$1,265,178.00)**

**National Objective: LMI**

**Benefit Report Type: Area Benefit (Census)**

<b><u>Proposed Beneficiaries:</u></b>	<b><u>(52.04%)</u></b>	<b><u># of Persons 284079 TOTAL</u></b>
		<b><u>98694 LOW 49140 MOD</u></b>

**Proposed Accomplishments:**      **# of Public Facilities 1**

**Revised Activity Description:**

Development of a centralized Water Monitoring Network. Network will track energy use, water levels, and flow through the stormwater network. A public facing dashboard will inform the public of the operation of the stormwater system, energy use, the effect of resident actions on the network.

Original Activity Description:

Development of a centralized Water Monitoring Network. This network and associated data collection will be critical to refining the operations of all of the Urban Water project activities.

**Activity Title: NDR Microgrids**

**Budget:** **(\$5,634,535.00)**

**National Objective:** **LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(50.17%)**

**# of Persons 18150 TOTAL**  
**5990 LOW 3115 MOD**

**Proposed Accomplishments:**

**# acres of urban facilities served**  
**by the microgrid: 1**

**Revised Activity Description:**

Design and install localized microgrids, small backup electrical generation and distributions systems that disconnect from the traditional grid to operate autonomously and help mitigate the health and safety effects of outages.

Original Activity Description:

Design and install two localized microgrids, small backup electrical generation and distributions systems that disconnect from the traditional grid to operate autonomously and help mitigate the health and safety effects of outages. Performance measure will be updated within 90 days.

**Activity Title: NDR Water Monitoring Network**

**Budget:** **(\$1,284,672.00)**

**National Objective:** **LMI**

**Benefit Report Type:**

**Area Benefit (Census)**

**Proposed Beneficiaries:**

**(51.12%)**

**# of Persons 17430 TOTAL**  
**5820 LOW 3090 MOD**

**Proposed Accomplishments:**

**# of Public facilities 1**

**Revised Activity Description:**

Construction of a district-scale Gentilly Water Monitoring Network including 84 groundwater monitoring wells, database of groundwater measures, and integration of groundwater and surface water models.

Original Activity Description:

Construction of a district-scale Gentilly Water Monitoring Network including 84 groundwater monitoring wells

**Activity Title: NDR Administration**

**Budget: (\$7,063,028.45)**

**National Objective: N/A  
(Planning/Admin or  
Unprogrammed Funds only)**

**Benefit Report Type:**                      **N/A**

Administrative activities associated with implementation of the NDR grant.

**Activity Title: NDR Planning**

**Budget: (\$6,311,806.55)**

**National Objective: N/A  
(Planning/Admin or  
Unprogrammed Funds only)**

**Benefit Report Type:**                      **Area Benefit (Census)**

**Revised Activity Description:**

Overall planning activities associated with the NDR grant. Planning activities include acres of green space and public properties monitored for invasive and/or vector species; modelling of groundwater and surface stormwater interaction, modelling of climate change risks, financial strategy for the District, assessment of long term benefits and maintenance costs of Urban Water and Energy Resilience projects, repetitive loss area analysis, and comprehensive recovery plan.

Original Activity Description:

Overall planning activities associated with the NDR grant. Proposed accomplishments pending

**Activity Title: Long Term Commitment (LTC) - Stormwater Management Zoning Ordinance-Narrative**

Budget: (\$0.00)

National Objective: N/A (for  
Planning/Administration or  
Unprogrammed Funds only)

Benefit Report Type:                      N/A

Adoption of Comprehensive Stormwater Management Zoning Ordinance.

Long Term Commitments were required during the grant application process for competitors to advance to the second phase of the competition. The City completed this LTC in 2015.

**Activity Title: LTC Hazard Mitigation Plan- Narrative**

Budget: (\$0.00)

National Objective: N/A (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type: N/A

Completion of 2015 5-year Hazard Mitigation Plan.

Long Term Commitments were required during the grant application process for competitors to advance to the second phase of the competition. The City completed this LTC in 2015.

**Activity Title: LTC Living Wage Policy- Narrative**

Budget: (\$0.00)

National Objective: N/A (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type: N/A

Implementation of Living Wage ordinance.

Long Term Commitments were required during the grant application process for competitors to advance to the second phase of the competition. The City completed this LTC in 2015.

**Activity Title: Outcome Value (OV) -Micro Grid Construction- Narrative**

Budget: (\$0.00)

National Objective: LMI

Benefit Report Type: Area Benefit (Census)

Proposed Accomplishments: # of micro-grids constructed to sustain critical services during a power outage: 1

Construction of energy micro-grid. This outcome is associated with the Reliable Energy and Smart Systems project and NDR Microgrids activity.

**Activity Title: OV-Green Space and Trees- Narrative**

Budget: (\$0.00)

National Objective: LMI

Benefit Report Type: Area Benefit (Census)

Proposed Accomplishments: # of non-invasive species trees planted on project sites 800 # acres of newly added or improved green space: 70

Improve underutilized open spaces, vacant parcels, streets, and other land in the public realm and private properties for flood reduction, reduced subsidence, improved water and environmental quality. Proposed accomplishment data is pending. This outcome is associated with the Urban Water project and Community Adaptation.

**Activity Title: OV-Green Space-Households**

Budget: (\$0.00) National Objective: LMI

Benefit Report Type: Area Benefit (Census)

Proposed Accomplishments: # of households within 10 min. (0.5 miles) of newly added or improved public 1

Improve underutilized open spaces, vacant parcels, streets and other land in the public realm for flood reduction reduced subsidence, improved water and environmental quality. Proposed accomplishment for # of households within 10 min. walk (0.5 miles) of newly added or improved public green space will be updated during project design. This outcome is associated with the NDR Urban Water project.

**Activity Title: OV-Job Training**

**Budget: (\$0.00)** National Objective: **LMI**

**Benefit Report Type:** **Area Benefit (Census)**

**Proposed Beneficiaries:** **# of Persons 100 TOTAL 50**  
**LOW 50 MOD**

**Proposed Accomplishments:** **% of total value of NDR contracts awarded to disadvantaged businesses 35** **% of total value of NDR contracts awarded to New Orleans businesses 35**

**# of people who completed water sector job training 100** **# of people who enrolled in water sector job training programs 125**

**Revised Activity Description:**

**Job training for water management construction and maintenance. This outcome is associated with the NDR Workforce Development project.**

Original Activity Description:

Job training for water management construction and maintenance. Performance measures will be updated within 90 days. This outcome is associated with the NDR Workforce Development project.

**Activity Title: OV-Long Term Commitments**

Budget: (\$0.00)

National Objective: N/A (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type: N/A

Proposed Accomplishments: # of Stormwater Management Zoning Ordinances adopted: 1 # of Hazard Mitigation Plans prepared: 1

Hazard Mitigation Plan prepared, and Stormwater Management Zoning Ordinance adopted by City Council. This outcome is associated with the Long-Term Commitments metrics.

**Activity Title: OV-LTC Living Wage Policy**

Budget: (\$0.00)

National Objective: N/A (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type: N/A

Proposed Accomplishments: # of Living Wage Ordinances adopted: 1

Living Wage ordinance adopted. This outcome is associated with the CNO Long Term Commitments metrics.

**Activity Title: OV-Permits Issued**

Budget: (\$0.00)

National Objective: LMI

Benefit Report Type: Area Benefit (Census)

Proposed Accomplishments: # of permits for significant renovations or new construction in the project area  
1

**Revised Activity Description:**

Improve underutilized open spaces, vacant parcels, streets and other land in the public realm for flood reduction, reduced subsidence, improved water and environmental quality. Proposed accomplishment is # of permits for significant renovations or new constructions in the project area.

**Original Activity Description:**

Improve underutilized open spaces, vacant parcels, streets and other land in the public realm for flood reduction,

**Activity Title: OV-Stormwater Management Features**

**Budget: (\$0.00)**

**National Objective: LMI**

**Benefit Report Type:**                    **Direct (Households)**

**Proposed Beneficiaries:**            **# of Households 140 TOTAL 20**  
**LOW 120 MOD**

**Proposed Accomplishments:**    **% of survey respondents with**    **# of LMI household with new**  
**an increased understanding of**    **installations of stormwater**  
**flood risks and water 75**            **management features 140**

**Revised Activity Description:**

Retrofit private properties with stormwater management features. This outcome is associated with NDR Community Adaptation project.

Original Activity Description:

Retrofit private properties with stormwater management features. Performance measures will be updated within 90 days. This outcome is associated with NDR Community Adaptation project.

**Activity Title: OV-Stormwater Storage**

**Budget: (\$0.00)**

**National Objective: N/A (for**  
**Planning/Administration or**  
**Unprogrammed Funds only)**

**Benefit Report Type:**                    **Area Benefit (Census)**

**Proposed Accomplishments:**    **# cubic feet of stormwater**  
**storage added 5,000,000**

**Revised Activity Description:**

This outcome is associated with NDR Urban Water Project. Our anticipated outcome is flood risk reduction. Stormwater storage outcomes will be updated during design.

Activity Description:

This outcome is associated with NDR Urban Water Project. Our anticipated outcome is flood risk reduction

**Activity Title: OV-Stormwater Storage Added**

**Budget: (\$0.00)**

**National Objective: LMI**

**Benefit Report Type:**                    **Area Benefit (Census)**

**Proposed Accomplishments:**    **# cubic feet of stormwater**  
**storage added through retrofit**  
**program 54,000**

Retrofit private properties with stormwater management features. This outcome is associated with the Community Adaptation project. Performance measures is number of cubic feet of stormwater storage added through Community Adaptation program.

**Activity Title: SL-Retrofit of SWBNO Power Plant**

**Budget (\$0.00)**

**National Objective: N/A  
(Planning/Admin or  
Unprogrammed Funds only)**

**Benefit Report Type:**                      **Area Benefit (Census)**

Retrofit of the Power Plant and Oak Street Raw Water Intake Station.

**Activity Title: SL-Trust for Public Land**

**Budget (\$0.00)**

**National Objective: N/A  
(Planning/Admin or  
Unprogrammed Funds only)**

**Benefit Report Type:**                      **Area Benefit (Census)**

Development of the Climate-Smart Cities Decision Support Portal.

(INSERT Link to PUBLIC COMMENT CARD)