



**Resilience | Sustainability**

# **National Disaster Resilience Program & Gentilly Resilience District Overview**

Presentation to the Resilience Design Review Committee  
January 12, 2017

**Colleen McHugh**  
Office of Resilience & Sustainability

**CITY OF NEW ORLEANS  
CHIEF ADMINISTRATIVE OFFICE**

**POLICY MEMORANDUM NO. 133**

**June 2, 2016**

TO: All Departments, Boards, Agencies and Commissions

FROM: Andrew D. Kopplin, Deputy Mayor and Chief Administrative Officer



SUBJECT: **RESILIENCE PROJECT DESIGN COMMITTEE**

**1. PURPOSE.**

This policy establishes the Resilience Project Design Committee and its authority to review and advise the Chief Administrative Officer regarding design aspects of construction projects under the City of New Orleans Resilience Strategy.

- B. The Resilience Project Design Committee shall convene to discuss each project at its inception to comment on scope, including but not limited to, the location, character and extent of the project.
- C. After the establishment of the project scope, the Resilience Project Design Committee shall view projects at the following phases:
- Schematic Design- 30%
  - Design Development – 60%
  - Construction Documents – 90%

## National Disaster Resilience Competition

Total Request: \$280,455,411

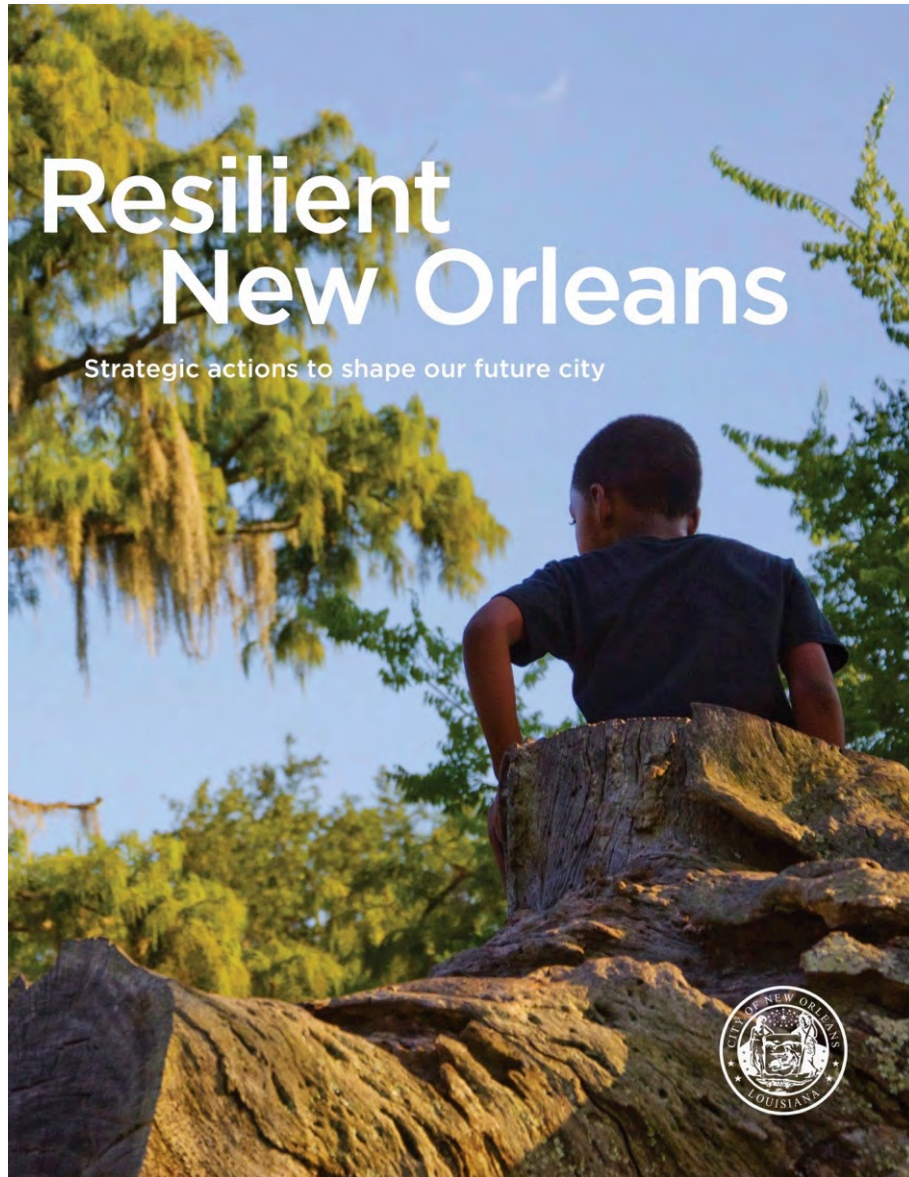
**Total Award: \$141,260,569**



- New Orleans is one of only **13** out of **67** eligible applicants to be awarded funding and the award is the **second largest nationally**.
- Two-phased competitive grant program that made available nearly **\$1 billion** to states and local jurisdictions that suffered damage from Presidentially Declared Major Disasters in 2011, 2012 and 2013.
- New Orleans qualified for the competition due to damages from **Hurricane Isaac** in 2012.
- New Orleans' proposal focused on connecting physical resilience with economic and community development
- All funds must be expended and projects **complete by 2022**

# New Orleans City Resilience Strategy

## Released August, 2015



**Addressing environmental and social challenges with common solutions**

# Request to HUD vs Grant Award

	NDRC Request	Funded Amount
Urban Water	\$232,652,840	\$97,963,095
Community Adaptation	\$5,000,000	\$5,000,000
Reliable Energy & Smart Systems	\$9,121,289	\$8,184,384
Workforce Development	\$3,000,000	\$3,000,000
Project Management & Monitoring	\$14,806,448	\$14,806,448
Planning & Administration	\$15,874,835	\$13,374,835
Total Request vs Award	\$280,445,412	\$141,269,569



# Gentilly Resilience District: Urban Water Activities



**Parks & Playgrounds**



**Vacant Lots**



**Streets & Corridors**



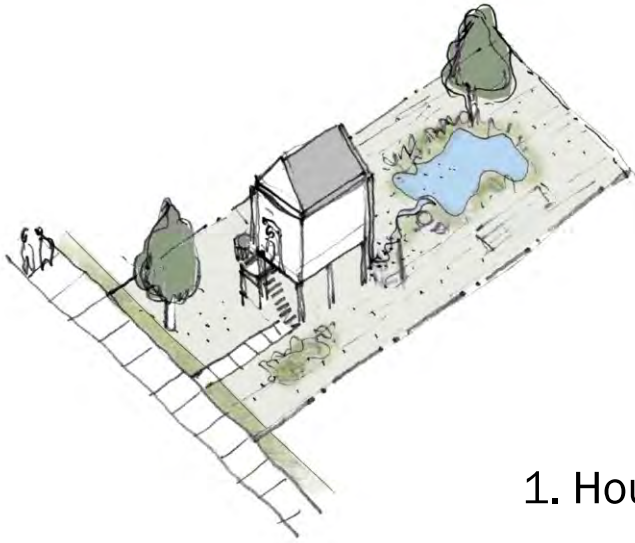
**Open Spaces**



**Home & Property Improvements**



# Integrated Network of Solutions



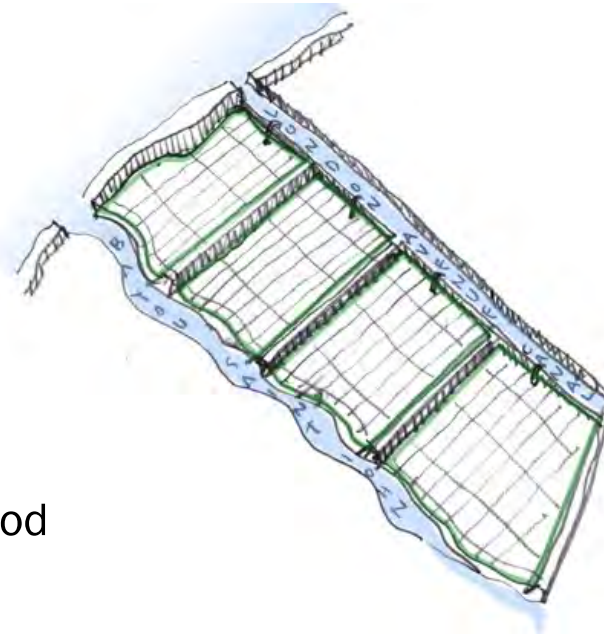
1. House and Garden



2. Block



3. Neighborhood



4. District



## Goals of the Projects



Reduced risk of flooding & subsidence



Neighborhood revitalization & economic development



Improved health & quality of life



Environmental education & workforce development



## NDR Performance Metrics for Urban Water Project

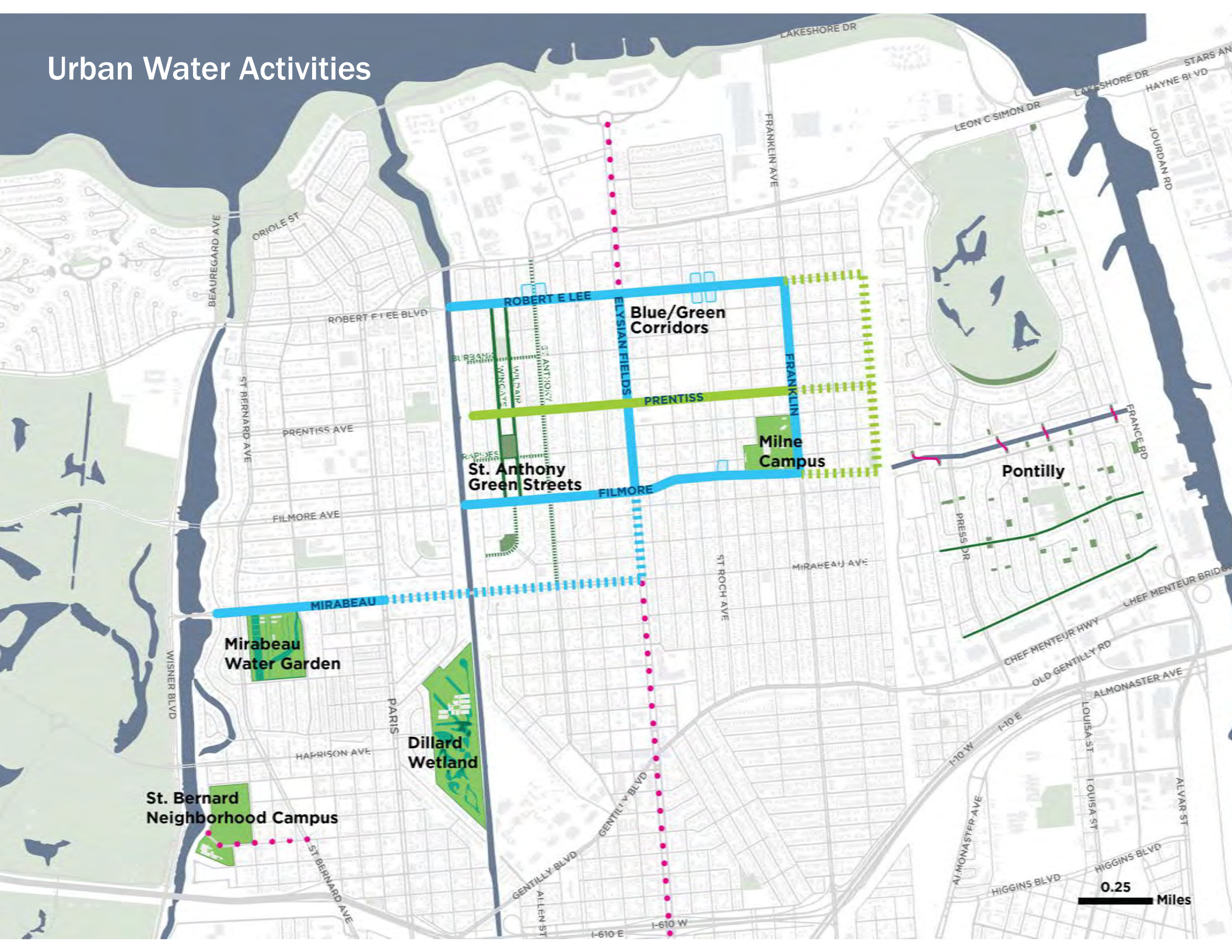
<b>Resilience</b>	Added water storage capacity
	Reduced flooding depths
	Inflow and outflow volumes into stormwater interventions
	Stabilization of groundwater levels
	Reduced heat island effect
<b>Social</b>	Access to public open space
	Increase in 'complete streets' design features
	Increase in active transportation users
	Reduced public health risk factors
	Improved public health outcomes
<b>Economic</b>	Increase in residential property values
	Increase in number of households
<b>Environmental</b>	Improved water quality
	Increased Biodiversity and ecosystem health
	Increased tree canopy
	New or improved green space

## Partners

- **Deltares:** Adaptation Support Tool, groundwater monitoring, operational research and best practices
- **Trust for Public Land:** Climate Smart Cities mapping tool, green infrastructure implementation finance
- **Tulane Center for Bioenvironmental Research:** Ecological surveys and data analysis
- **NORA & SWB**

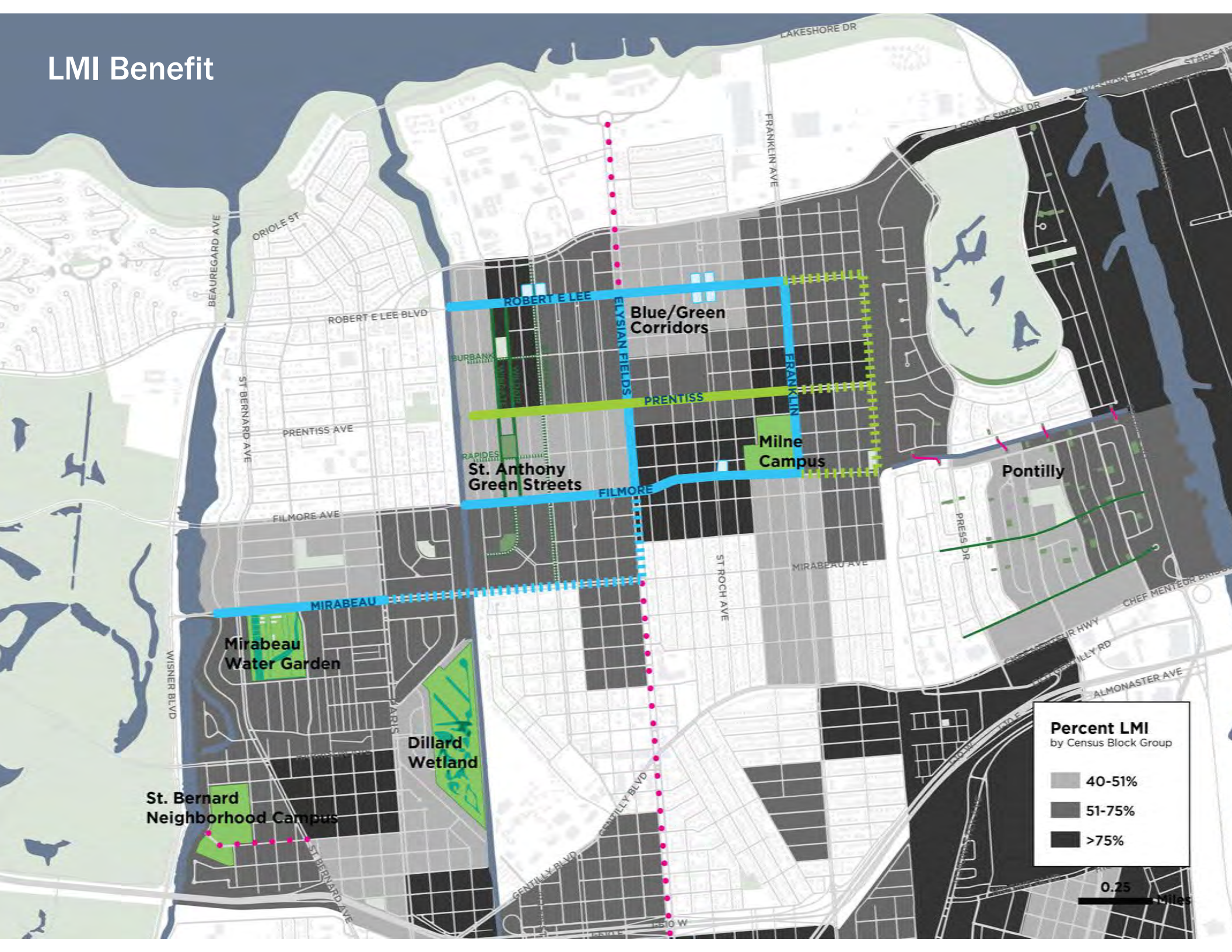


# Urban Water Activities





# LMI Benefit





## 2, 5, and 10 Year Flood Zones



December 12, 2016

StudyArea - New Orleans City Limits

High

Moderate To High

Moderate

1:36,112

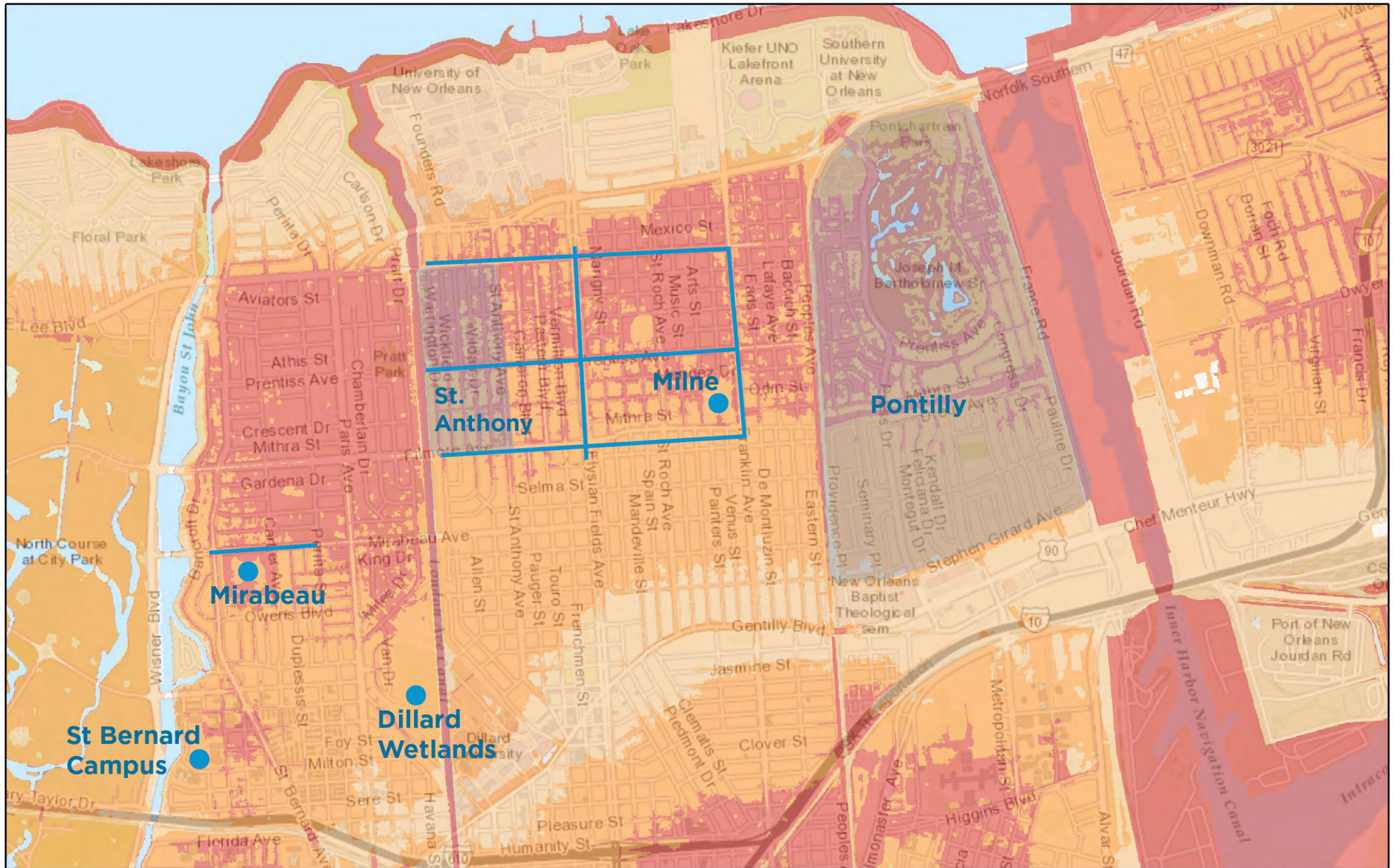
0 0.2 0.4 0.8 mi

0 0.325 0.65 1.3 km

THE TRUST FOR PUBLIC LAND



# 100 and 500 Year Flood Zones



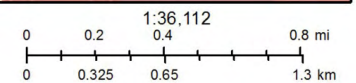
December 12, 2016

StudyArea - New Orleans City Limits

High

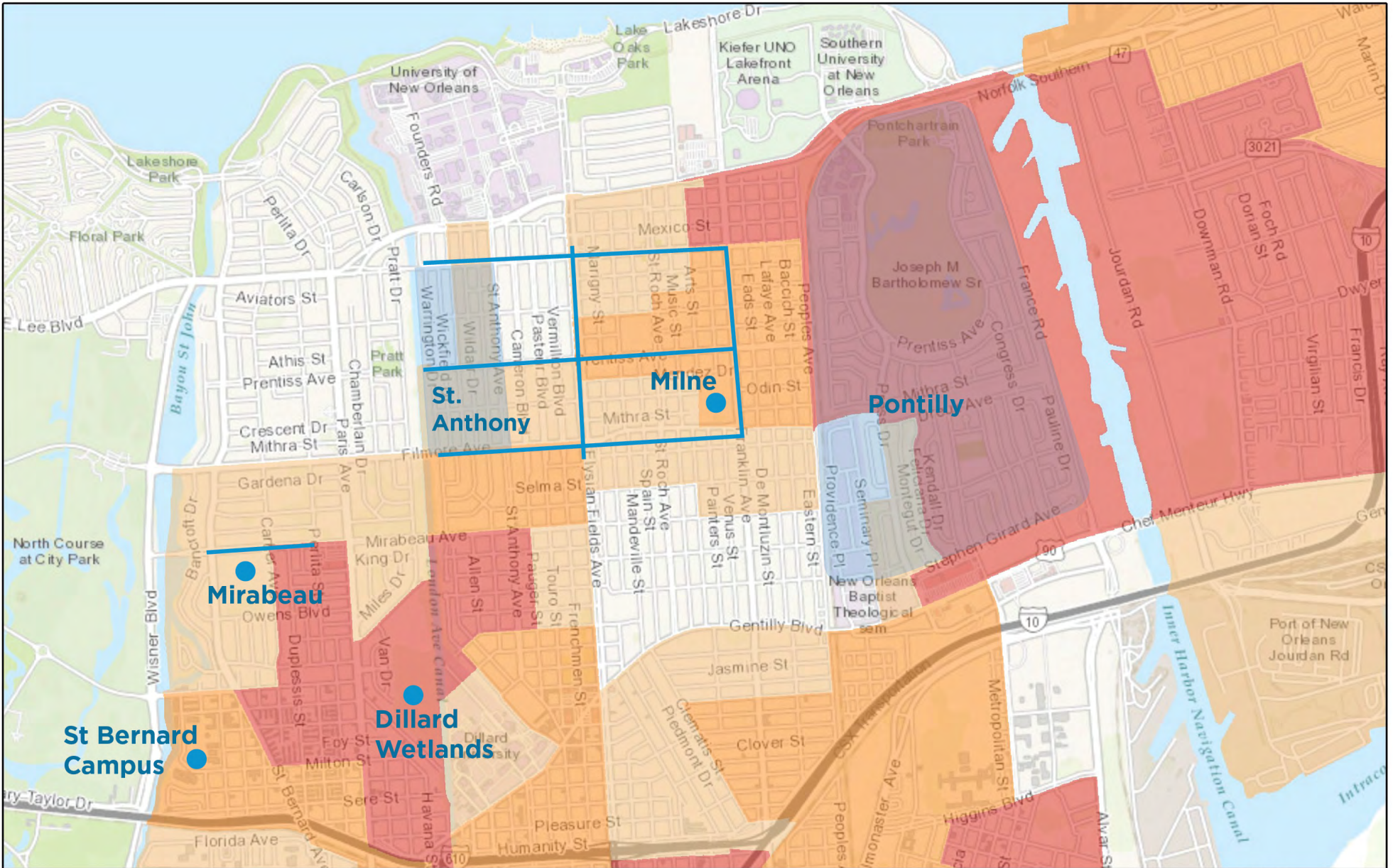
Moderate To High

Moderate






## Percentage Residents of Color

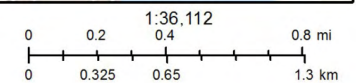


December 12, 2016

StudyArea - New Orleans City Limits Moderate To High

 High

 Moderate





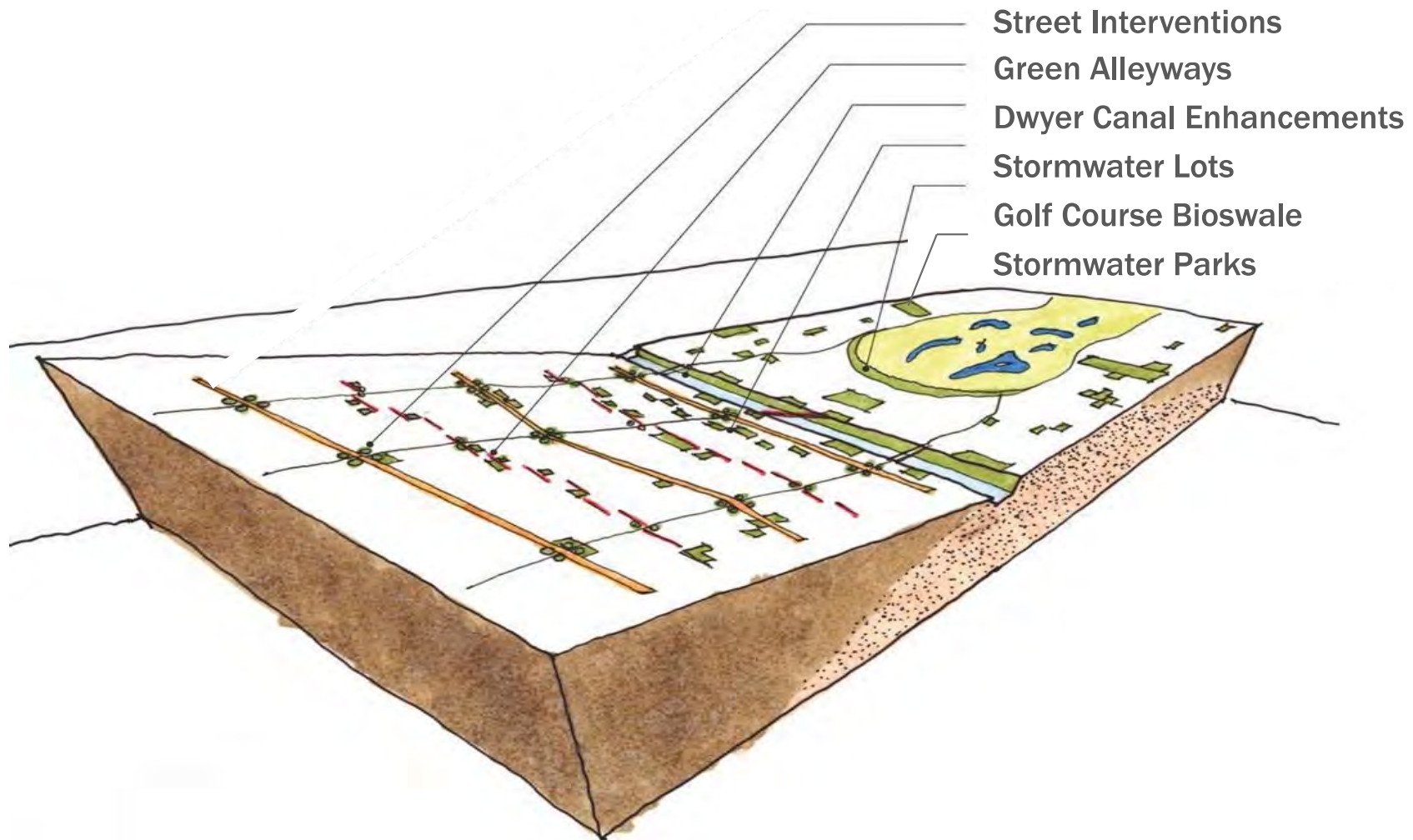
## Mirabeau Water Garden



- FEMA HMGP portion at 60% Design – stormwater management regime
- NDR portion will enhance project with educational, recreational, and other programmatic elements – may include a building, pavilion, amphitheater, and/or play structures and landforms



## Pontilly Neighborhood Stormwater Network



- FEMA HMGP portion at 100% Design – neighborhood green infrastructure
- NDR portion will enhance project with recreational amenities such as walking paths, benches, and/or pedestrian bridges



## Blue-Green Corridors



- Neutral grounds of major boulevards in Gentilly that are improved to slow and store stormwater while facilitating safe and comfortable spaces to travel and recreate.



## St. Bernard Neighborhood Campus



- **Integrated green infrastructure and recreational improvements at McDonough 35 and Willie Hall Playground**



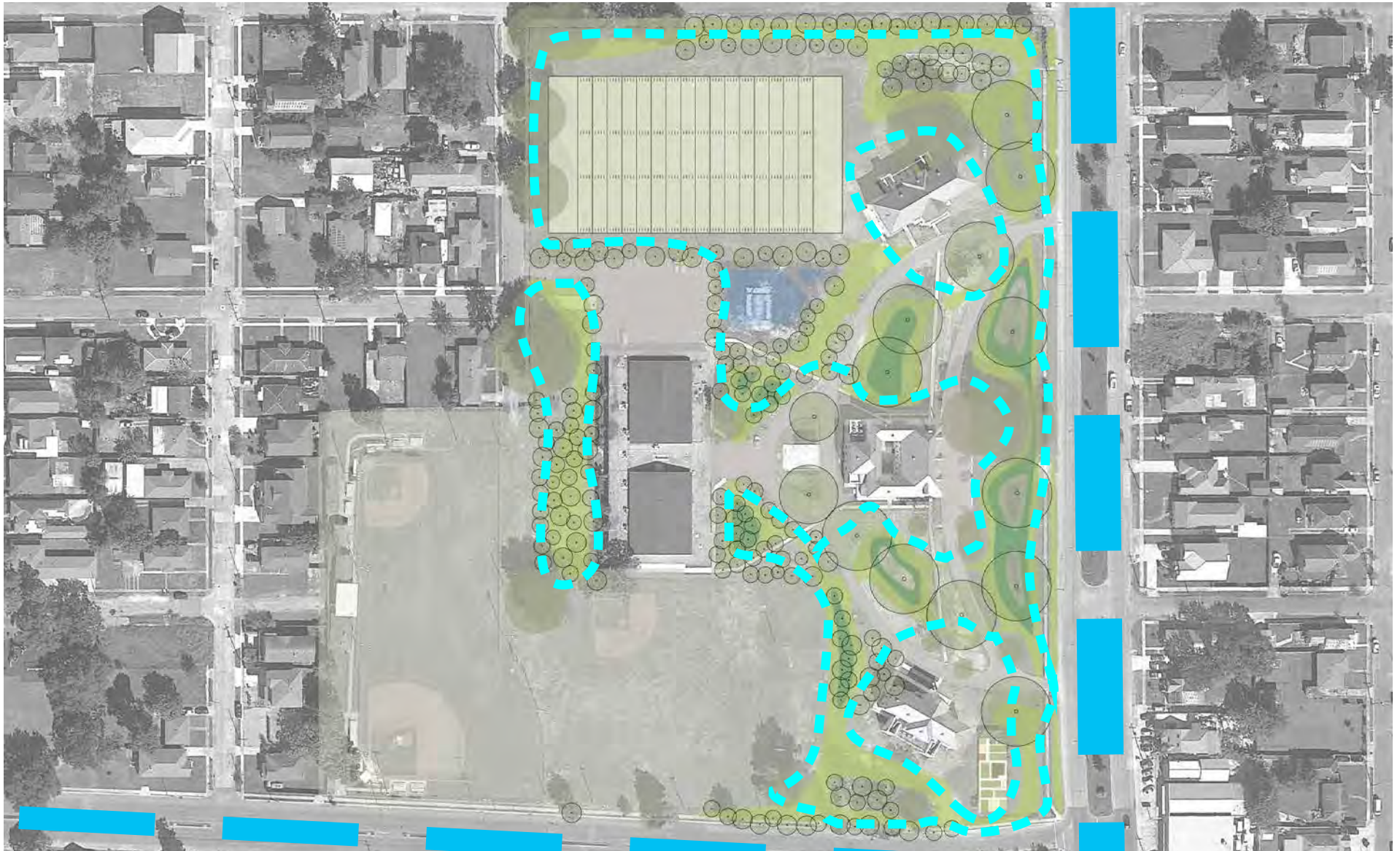
## St. Anthony Green Streets



- Establishes a new standard for neighborhood streets and playgrounds that incorporates stormwater management as a key component of neighborhood revitalization



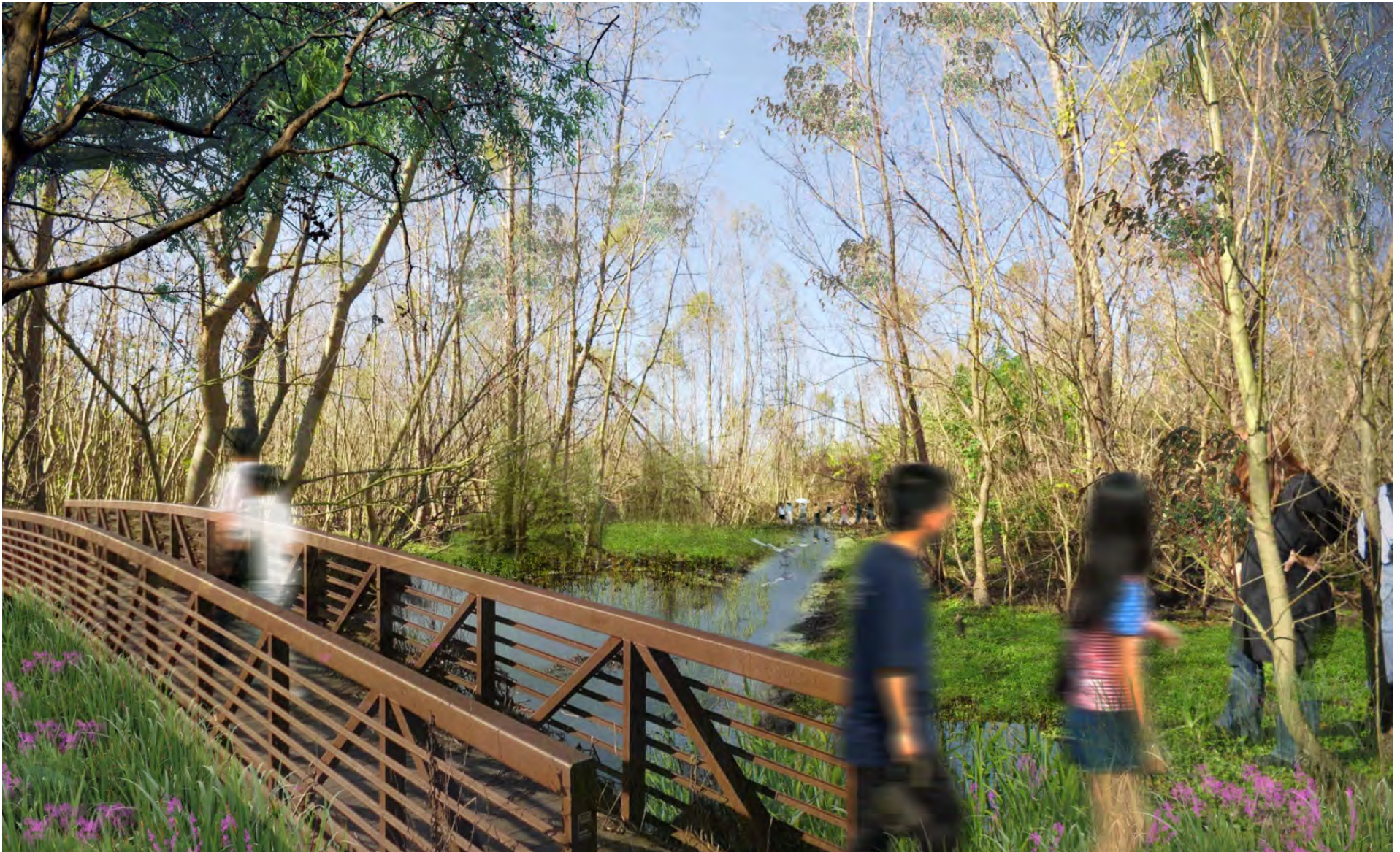
## Milne Water Campus



- Integrated recreational enhancements and water management features combined with water-focused education, economic, and workforce development activities



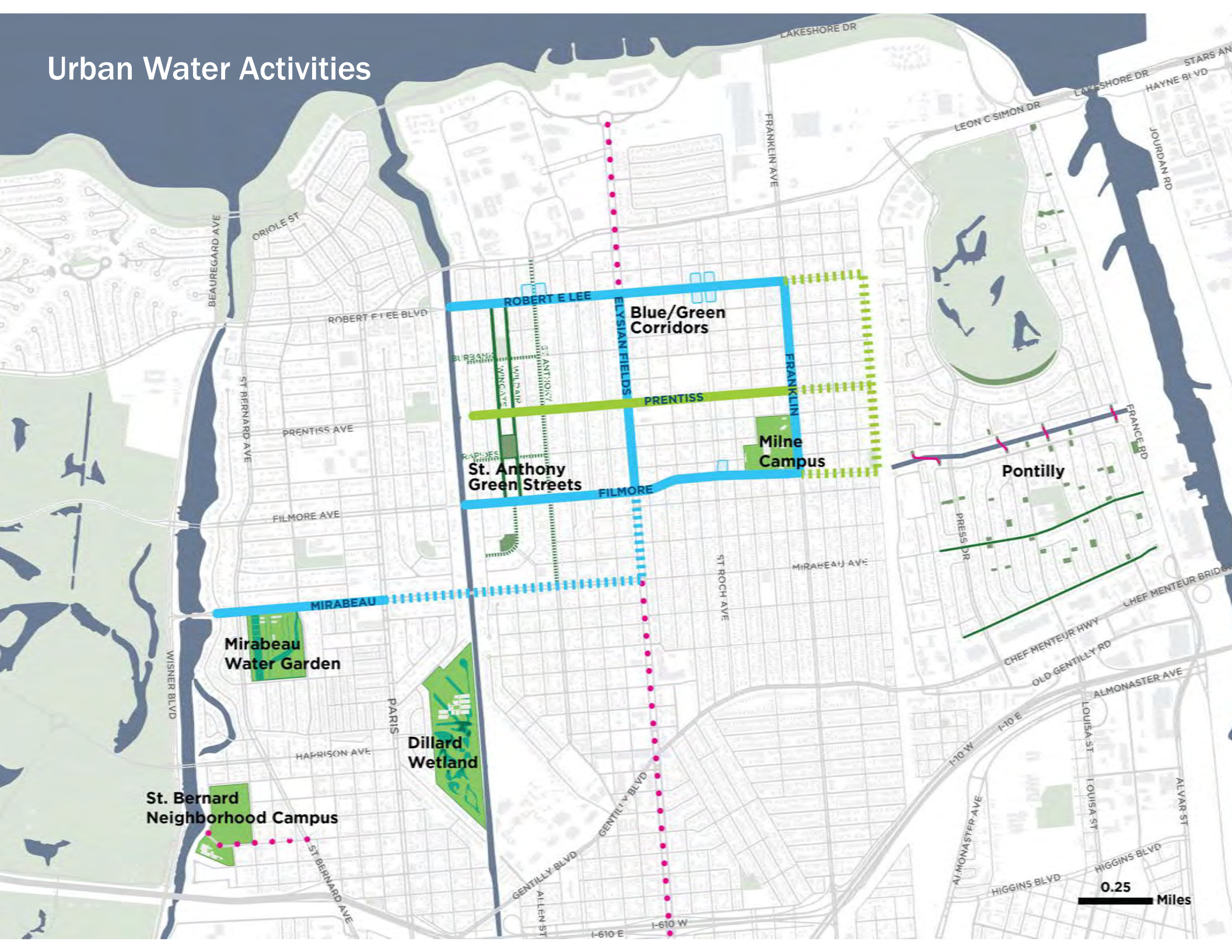
## Dillard Wetlands



- Retrofit existing woodlands to capture water from neighboring areas and serve as a nature preserve



# Urban Water Activities





# Community Education and Engagement



- Build awareness of the themes of urban environmental adaptation and engaging communities around transformative projects
- Develop a community of neighborhood ambassadors



# Collaborative and data-driven decision making

- Digital climate adaptation planning tools in partnership with Trust for Public Land and Deltares that facilitate smart, collaborative, and data-driven decisions about where and how to invest in green infrastructure to build physical and social resilience
- Integrate collaborative planning workshops into the project design process

