

About Sankofa CDC



A 501(c)3 non-profit organization founded in 2008 by Lower Ninth Ward residents committed to revitalization of the area

Works with residents and other community stakeholders to identify locally-felt social challenges to address them in thoughtful, culturally-competent ways

Addresses the social determinants of health to create a local environment that promotes positive health outcomes and builds healthier communities for generations to come

The Sankofa Wetland Park and Nature Trail

A 40 acre green infrastructure project along Florida Avenue in the Lower Ninth Ward of New Orleans





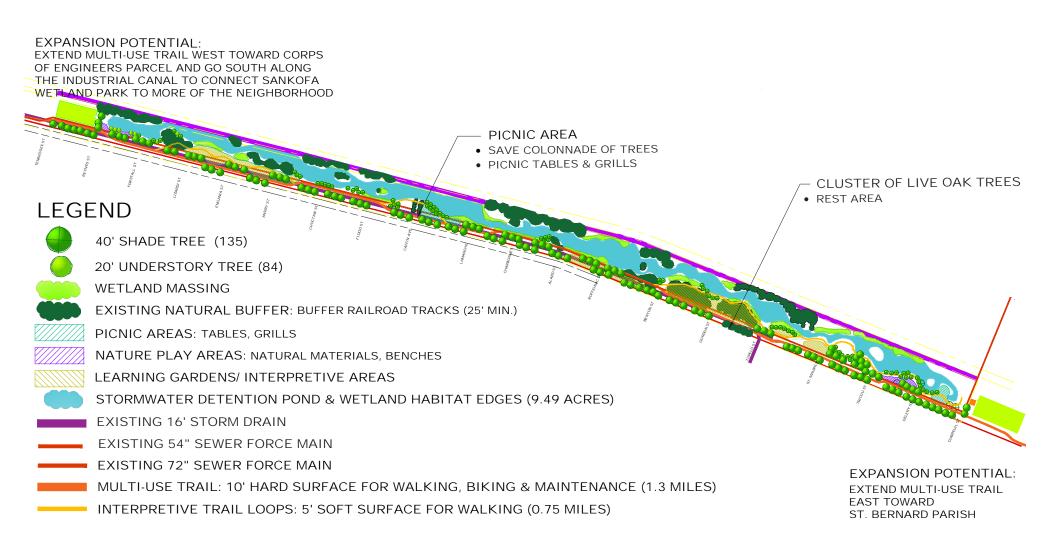
Part of an effort to address long standing resiliency and community revitalization challenges in the Lower Ninth Ward

A community-driven effort to eliminate blight and blend sustainable community development with environmental resiliency





Sankofa Wetland Park and Nature Trail Master Plan Concept



2-Acre Pilot Project

Second Concessions Agreement granted

Walkway developed

Invasive species removed

(Dubrueil to Delery) completed

First Capital Outlay Request with City of New Orleans submitted

Bioretention ponds expanded to hold 1,200,000 gallons of water

First Concessions Agreement granted

Removed 300 illegally dumped tires from the area

Wetland Park Project expanded to 8 acres (Delery to Tupelo)

Second Capital Outlay Request with City of New Orleans submitted

Project Timeline

Cleared over 1,000 invasive trees from 40 acres of land

Cooperative Endeavor Agreement with City of New Orleans granted for 20 years

Third Capital Outlay Request with City of New Orleans submitted

Coordinated with City Environmental Office to remove 37 barrels of illegally dumped chemicals and remediate soil

Organized community cleanup with neighborhood partners to clear overgrown vegetation on Florida Ave Corridor and coordinated with City Dept of Sanitation to remove 8.5 truckloads of garbage and 52 tires



Funding

Awarded

2016 \$100,000 S&WB Green Infrastructure Program

2019 \$275,000 Coastal Protection Restoration Authority

\$30,000 EPA Environmental Justice Program

2020 \$19,000 USDA Natural Resource Conservation Service

\$100,000 Entergy New Orleans Environmental Initiative

Applied, Not Yet Awarded

2021 State of Louisiana Capital Outlay Funds

Economic Development Administration

2022 Watershed Funding

FEMA Hazard Mitigation Program

Benefits

from the Sankofa Wetland Park and Nature Trail



- 1. Flood Resilience
- 2. Ecology
- 3. Civic Engagement
- 4. Health
- 5. Economy



Stormwater Management

- The Wetland Park acts as a "sponge" that soaks up and cleans the water and keeps the Lower Ninth Ward dry
- Currently, 800,000 gallons of water flow into the wetland area
- The bioretention ponds at the Wetland Park could retain up to 8 million gallons of water and reduce flooding
- Wetlands help to remove pollutants from stormwater runoff because plants in and around the wetlands filter out the toxins and chemicals in the water





A Flood Protection Strategy

- Wetland restoration and preservation is an important component of a comprehensive flood protection strategy; often more effective and costs less than a system of traditional dikes and levees.¹
- Freshwater wetlands, like the Sankofa Wetland, typically have more coverage than saltwater wetlands, providing a wider buffer zone against storm surges.²

Image by Diana Robinson, Flickr³

Wetlands and Hurricane Damage

- The degradation of the wetlands in the Bayou Bienvenue culminated in the complete inundation of the Lower Ninth Ward by Hurricane Katrina.
- The Wetland Park is designed to restore the once vibrant marsh and increase hurricane protection and floodwater mitigation in the Lower Ninth Ward.

The Wetland Park and its Impact



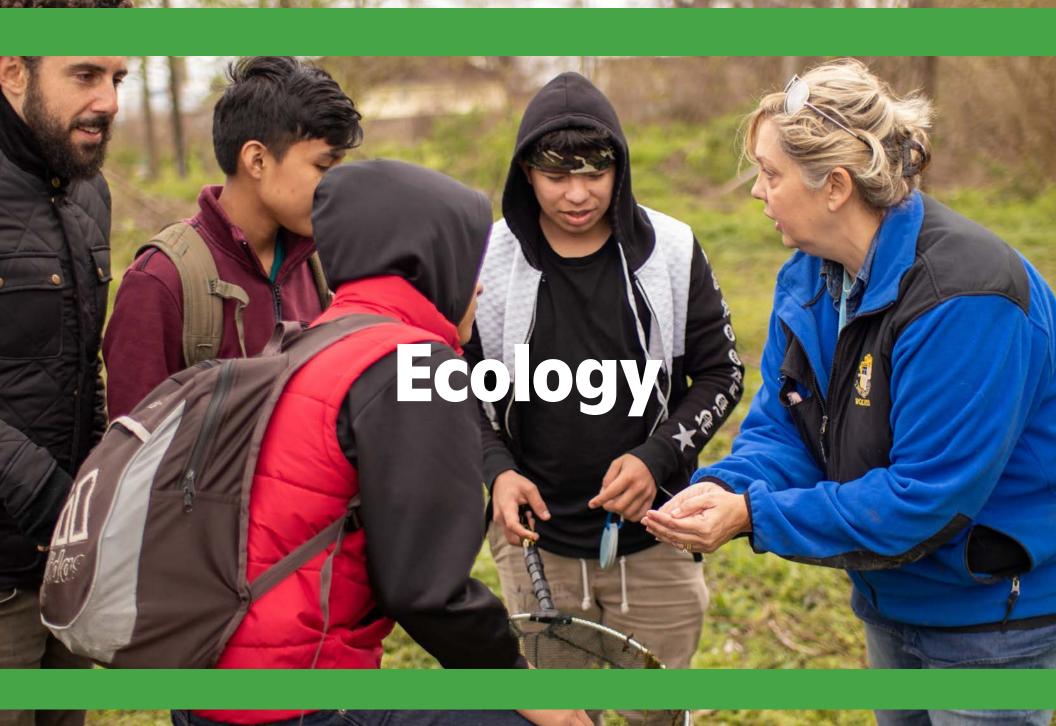
- Reduction in property damage during rain events
- Reduction of temporary road closures during rain events
- Increased feelings of safety and security among residents for self and property
- Reduction in flood insurance premiums
- Increased property value

Resilience Outcomes at the Wetland Park

The Wetland Park project would:

- Store **8 million** gallons of water
 - » Change a 5.37-inch rain event into a 1.58inch rain event over 2 years of construction
- Remove over 3,000 invasive plant species
- Plant 40 acres of native vegetation with 10,000 cypress and tupelo trees





sankofa

Wetland Park & Alature Trail
Fun Facts











Wetland Ecologies

- Wetlands are among the most productive ecosystems in the world, comparable to rain forests and coral reefs.
- Wetlands create a habitat and provide shelter for thousands of species of plants and animals.
- Trees, plants and other wetland park features (detention basins, bioswales, rain gardens) slow and clean stormwater runoff.
- Plants in the wetland park can clean groundwater, which can reduce the effects of land subsidence.





Native Plants

- Provide shelter and food for wildlife
- Help reduce air pollution
- Require less water than lawns and help prevent erosion
- Do not require fertilizers and require fewer pesticides than lawns
- Promote biodiversity
- Increase scenic values and beautification
- Trees protect neighborhoods during hurricanes and heavy rain events

Conservation Outcomes at the Wetland Park

The Wetland Park project would:

- In the Short-Term: Restore 32 acres of the Wetland Park in 2 years
 - » Increase bird, fish, and wildlife species within the wetland park by 25% within 4 years of completion
- In the Long-Term:
 - » Increase the bird population using the park by 85%
 - » Will serve as a stopover location for migratory birds







"For decades, this section of Florida Avenue was an eyesore in the Lower Ninth Ward. It was [an] area of blight and illegal dumping. Through Sankofa's leadership, the area is being developed into [a] wetland park and nature trail. As a resident of the Lower Ninth Ward, I am thankful for the work Sankofa has completed in the transformation of [an] area of neglect into an area of beauty. I am excited about the future of the Wetland Park and the positive impact it will have on our community."

Dawn Davis, Lower Ninth Ward resident



Community Engagement and Leadership

- Regular input sessions will give community members the opportunity to provide feedback on park development
- Field trips for children and people
 of all ages involve activities related
 to water quality monitoring, species
 identification, green infrastructure,
 and the importance of wetlands

Workforce Development

- Will provide job training for 200 community members over two years
- Groundskeepers, horticulture workers, gardeners, plant and lawn specialists
- Will aim to place 160 trainees into green infrastructure jobs



Activities at the Park

- Saturday Sankofa Green Team
 - » Meets monthly to maintain trails, pull weeds, remove invasive plants, install native plants
 - » All ages
- Community clean-ups
- Bird watching
- Native species identification
- K-12 lessons





Kids Corner

An online hub for students, teachers, and others interested in growing their knowledge about wildlife, native plants, and the Sankofa Wetland Park.

- Students can submit any related question to the Sankofa team via email.
- Lesson plans adaptable for K-12 students are available to help train students as young scientists and promote stewardship through awareness that local environments function as part of larger, connected ecosystems.
- A native plant guide to learn more about the native plant species of the NOLA area as well as how to identify them.

Civic Outcomes at the Wetland Park

The Wetland Park project would:

- Provide opportunities for volunteering and leadership development
- Provide job training for 200 individuals within 2 years
- Provide educational opportunities and exposure to nature for youth







"The Sankofa Nature Trail and **Wetland Park will provide an** opportunity for youth to enjoy and learn their natural environment. It gives me joy to know there will be a nature park in the Lower Ninth Ward. The residents of the Lower Ninth Ward need a walking trail and a safe place to exercise. This park will provide beauty in a place that was once abandoned."

Gaynell Brady, Founder of Our Mammy's and a resident of the Lower Ninth Ward



Green Spacesand Health

Access to green spaces:

- Increases physical activity
- Reduces risk of chronic diseases, such as heart disease, diabetes, and cancer
- Builds bone density and increases
 Vitamin D exposure, which also
 supports bone health
- Improves sleep quality and ability to fall asleep
- Supports mental health and community and social cohesion

Health Outcomes at the Wetland Park

The Wetland Park project would:

 Provide recreational space for walking, jogging, kayaking and canoeing, and other physical activities





Economic Benefits

- Economic benefits that the park will create, according to an analysis by Earth Economics, include:
 - » Flood Damage Reduction
 - » Water Quality Improvement
 - » Reduced Strain on Pumping System
 - » Habitat Value
 - » Educational Value
 - » Recreational Value
 - » Public Health Value
 - » Carbon Sequestration
 - » Subsidence Risk Reduction
 - » Aesthetic Benefits

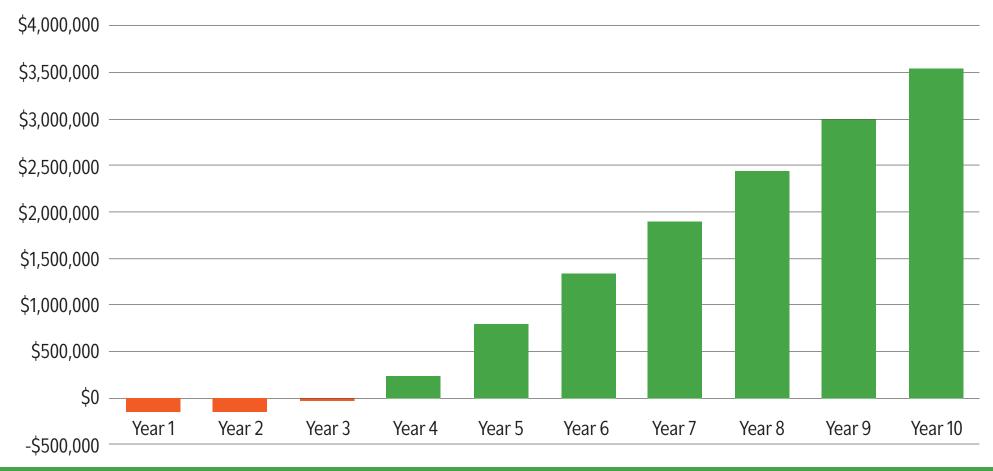


Cost Benefit Analysis

A cost-benefit analysis of a 4-acre expansion of the wetland park indicated \$393,634 in net present value (including all costs and benefits) for the 4-acre area.⁴

This means that every dollar invested in the expansion area is estimated to return \$3.45 in public benefits over a 30 year period.

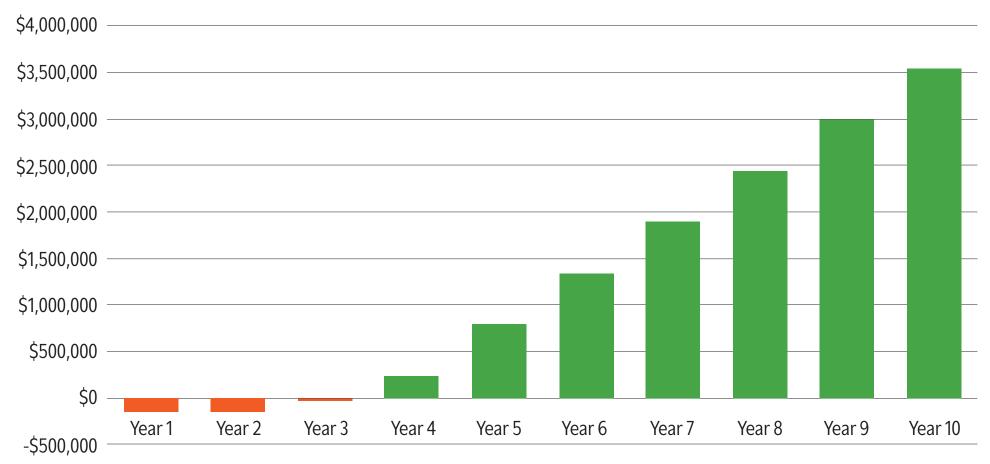
Net Return on Investment



Cost Benefit Analysis

An analysis estimates a total cost of \$1.2 million for constructing the entire 38-acre expansion for the wetland park. Using the estimated figure of \$3.45 in benefits per \$1 expenditure, the 32-acre expansion would have a Net Present Value of \$4.14 million, generating a net benefit of nearly \$3 million for the Lower Ninth Ward community.

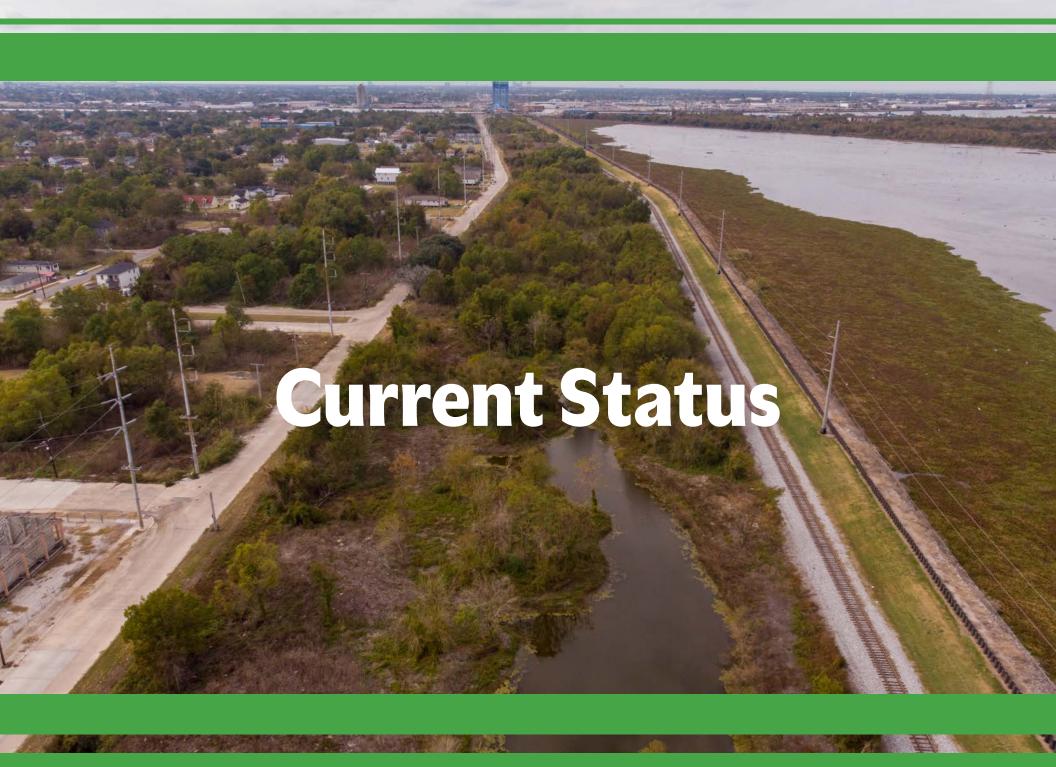
Net Return on Investment





Spillover Effects

- The economic net benefit of \$3 million only covers economic activities within the park
 - » It does not account for spillover economic effects in the area and the Lower Ninth Ward as a whole
- Additional economic benefits include:
 - » Increased economic activity due to visitors coming to the Wetland Park
 - » Increased property values and increased development activity due to the development of the Wetland Park
 - » Increased tax revenues
 - » Increased tourism revenue



Current Status

- Sankofa has completed a 2-acre pilot that demonstrates the project's viability
- Planted 400 native irises and 1,000 bald cypress trees
- Developed a retention pond on 8 acres of restored wetland
- Can currently retain 1.8 million gallons of water and increased wildlife species diversity within the park
- It is seen as a model for community-driven resiliency planning
- We are looking to expand along the site's remaining 38 acres



Thank You! sank Gfa COMMUNITY DEVELOPMENT CORPORATION

Rashida Ferdinand Founder & Executive Director

504.872.9214 | Rashida@sankofanola.org

Endnotes

- 1 US Environmental Protection Agency, "Wetland Functions and Values," last modified February 2016, https://www.epa.gov/sites/production/files/2016-02/documents/wetlandfunctionsvalues.pdf.
- 2 Sun, Fanglin, and Richard T. Carson. "Coastal wetlands reduce property damage during tropical cyclones." Proceedings of the National Academy of Sciences 117.11 (2020): 5719-5725.
- 3 Diana Robinson, "Lower Ninth Ward, New Orleans," Jan 4, 2011, https://bit.ly/3mkvTmV
- 4 Earth Economics, "Benefit-Cost Analysis of Sankofa Wetland Park."
- 5 The Caulfield Consulting Group, "Financing Options for a Wetland Park and Nature Trail Project," January 2019.