



A national network with deep local roots, we help communities to become healthier places to live, work, and play.



The Groundwork Network



Equitable Land Revitalization Technical Assistance

Promoting equity and environmental justice in land reuse efforts within and outside of the Groundwork network

- Workshops & Trainings
- Direct Technical Assistance
 - Visual Resource Library



Thank you to the EPA's Office Of Brownfields and Land Revitalization for providing grant funding to support Groundwork USA's brownfields and equitable development technical assistance program.

We are already experiencing climate-changed induced extreme weather events

Orange Skies and Burning

Eyes as Smoke York City

New Yorkers are accus weather. This was som





More Heat, and Little Respite, Is Expected in the Southwest

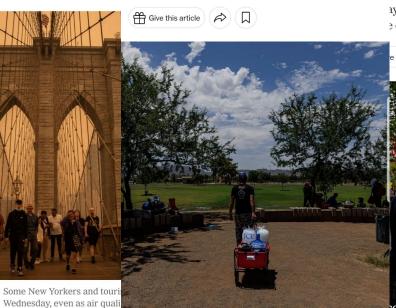
Forecasters predict that the heat wave could be "one of the longest," with monsoons running late and nights that stay warm.





rat to Know About mont's Devastating Floods

person died after the state was inundated ays of heavy rain that flooded rivers to e of their highest levels on record.



Wednesday, even as air qual Dave Sanders for The New York

A volunteer distributed water and ice on Monday in Phoenix, where the temperature was expected to reach 106 degrees. Adriana Zehbrauskas for The New York Times



A two-day storm dumped more than eight inches of rain on some parts of the state. Hilary Swift for The New York Times



Brownfields & Environmental Justice

Brownfields

- Over 450,000 brownfields in communities throughout the US
- Predominantly located in communities of color and low-income communities





Opportunity for Community
Benefit & Climate
Resilience!





Nature-Based Solutions

- Solutions to protect, manage, or restore ecosystems to address societal challenges, simultaneously providing benefits for people and the environment
 - Green neighborhoods
 - Cool spaces
 - Improve air quality
 - Mitigate flooding

Transforming Land and Communities!



Today's Speakers





Jonathan Phillips, Executive Director Groundwork Elizabeth



Todd Reynolds, Executive Director Groundwork New Orleans



EARTH =

ECONOMICS



Project Architect

DANA BRÖWN& Associates

HEALTHY SERVICES

Priority Project

















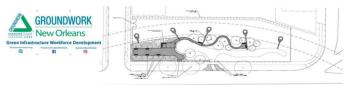
















WAGGONNER &BALL







Vision To Reality Stormwater Park

Phase 1

Construction Start: 10/1/2021

Construction Finish: 1/30/2022













Vision To Reality Stormwater Park

Phase 2

Construction Start: 3/1/23

Construction Finish: 8/1/2023

Trees - Native Plant Installation

October 2023















COMING SOON...Vision to Reality Storm Water Park











COMING SOON...Vision to Reality Storm Water Park











COMING SOON...

Vision to Reality Storm Water Park









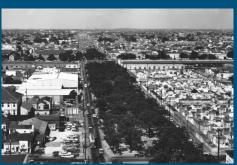
Vision To Reality Stormwater Park

History: For more than a century, Claiborne Avenue served as a center of New Orleans' Black economic and cultural life. As the main street in Tremé, one of the oldest African-American neighborhoods in the country, the tree-lined avenue hosted generations of family businesses and community gatherings. Then, in the late 1960s, everything changed. A federal infrastructure initiative leveled the large oak trees, azalea gardens, and more than 100 homes and businesses to make space for an elevated freeway to cut through the heart of the community. To add to the tragedy, the largely unwanted highway increased exposure in the surrounding communities to pollution, noise, and flooding.

While debates about the future of the freeway have been reinvigorated by the passing of the latest infrastructure bill, Groundwork New Orleans and its network of community-based partners, including Healthy Community Services, aren't waiting for change to happen – they're making it happen. Working together, Groundwork New Orleans and Healthy Community Services, are taking the future into their own hands by putting shovels in the ground to address much-needed climate resilience challenges – including flooding and extreme heat –and creating beautiful outdoor spaces for the community to once again gather. At the top of their priority list is the 7th Ward Priority Project.









Vision To Reality Stormwater Park

Future: Phase one of the work – the installation of green infrastructure – may have wrapped up in January 2022, but there is a bigger vision for this space and the broader transformation of Claiborne Ave. Ultimately the goal is to not just address the stormwater challenges, but creating active parks for gathering and recreation at this site and at other sites along the historic avenue.

The next phase of work on this site will focus on activating the space through the installation of additional stormwater features, public seating to create gathering spaces, and additional fencing and signage to increase the sense of place and safety.

While this won't bring back the tree-lined Avenue in the short term, projects like the 7th Ward Priority Projects go a long way towards repairing the epic environment, social and health damage done to this community – one block at a time.







Groundwork Elizabeth August 2, 2023

Harnessing Nature Based Solutions for Climate Resilience and Brownfield Restoration in Elizabeth, N.J.







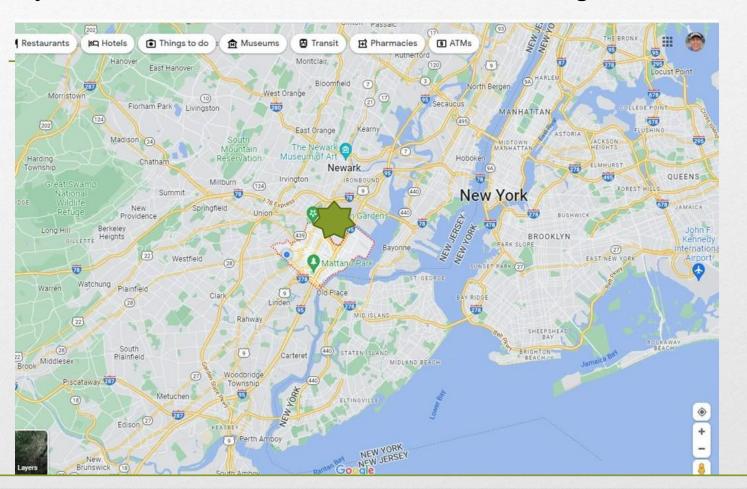


- Imagine a world where everyone has a healthy place to live, work and play. We do AND WE CAN!!!
- Groundwork Elizabeth is dedicated to pursuing a future in which everyone's neighborhood environment is green, healthy and resilient and lives are uplifted as a result. HOW?
- We work on projects and programs that provide a healthy physical environment and strive to mitigate environmental issues that affect those who often bear an unfair burden of Environmental INJUSTICE.



OUR WORK IS LOCAL

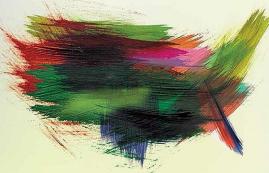
Where is Elizabeth, N.J.? The City of Elizabeth, NY Metro Area Population 135,000, Union County 572,000



Demographics



DIVERSITY EXPLOSION



HOW NEW RACIAL DEMOGRAPHICS
ARE REMAKING AMERICA

WILLIAM FREY

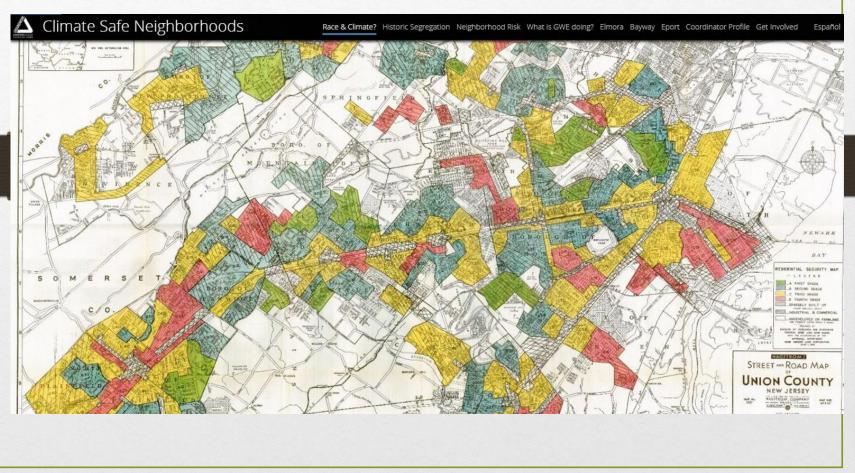
Demographics

- 64% of residents are Hispanic/Latino of any race; 19% Black or African American
- significantly lower in high school graduation rates,
- Significantly lower for residents with a bachelor degree, household income, and
- home ownership rates

Elizabeth is significantly higher than the state median in persons below poverty level, violent crime, and crimes per square mile.

The long term issues of environmental injustice affect those most at risk and those that are in the weakest position to change their circumstances.

Redlining and Environmental Justice (HOLC)



To HAVE A Healthy Community we need a Climate Safe Elizabeth and Environmental Justice WHAT CAN WE DO?





3 sample projects and programs to help advance EJ and promote a healthier environment

- MicroForests for MacroSolutions
- Phil Rizzuto
 Riverbank
 restoration project:
- Engaging our community in the process: Next
 Generation of Community Leaders



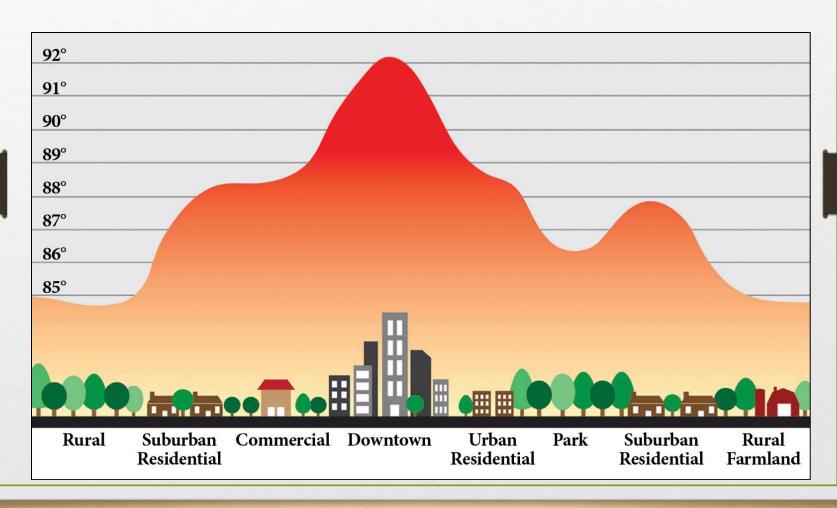




Environmental issue: FLOODING



Environmental Issue: Heat Island Effect and Air Quality





Planning occurs at the Groundwork Elizabeth MicroFarm and Environmental Center



MicroForests offer a hands on way to control flooding, fight heat islands, improve air quality









Groundwork Elizabeth in partnership with GW USA, NJ Conservation Foundation and others to build up to 6 MicroForests locally.

First Microforest in Elizabeth, Union County, N.J.





MicroForests for **MacroSolutions**

URBAN MICRO FORESTS

CLIMATE CHANGE MITIGATION & BIODIVERSITY RESTORATION



Around the world, there's a growing movement to create tiny forests in cities to improve their livability and help fight climate change. The idea is simple - take brownfield sites, amend the soil, plant them densely with a wide variety of native seedlings, and let them grow with minimal intervention. The result is complex ecosystems that grow quickly and are perfectly suited to local conditions. Micro forests do most of the things large forests do: absorb carbon from the air, soak up storm water, provide habitat for wildlife, cool the air in summer and they can also help muffle city noise. As the nation's most urbanized state, New Jersey has many places just perfect for tiny forests.

FOSTERING FCOSYSTEM SERVICES

Urban micro forests provide valuable ecosystem services such as air pollution removal, carbon storage, oxygen production, and stormwater runoff prevention. The species, size and distribution of the trees are significant factors that determine the present and future supply of ecosystem

Considerable attention is needed when selecting plants for forest establishment, protection, and management in order to meet current and future demands on the ecosystem services as the need to mitigate climate change increases in densely



FUNCTIONAL BENEFITS OF URBAN FORESTS

- . Carbon Sequestration: Trees reduce the carbon in the atmosphere by sequestering it in new growth every year. The amount of carbon annually sequestered increases with the size, age, and health of the trees. Carbon storage ha attracted significant attention due to climate change.
- Oxygen Production: Oxygen is needed by all humans and wildlife and is one of the most commonly cited benefits of urban trees.
- Climate Management: Urban vegetation provides direct and indirect deficits. Write providing shade, trees also undergo the proces of evapotranspiration which regulates heat and
- Air Pollution Removal: Air quality is improved by reducing air temperature, directly removing pollutants from the air through tree leaves and offsetting carbon dioxide emissions (reducing
- runoff can cause concern in many urban areas as it can contribute to the pollution streams, wetlands, rivers, lakes, and oceans.
- Energy Savings: Trees reduce building energy use in warm months and allow warmth from



URBAN MICRO FORESTS GROW







































Planting Impact Tree Planting Event

Sunday, March 26 1pm to 5pm Groundwork Elizabeth
MicroFarm
740 West Grand St. • Elizabeth, NJ



Conservation and Restoration: Phil Rizzuto Park

Welcome to the Trotters Creek Trail







Sponsored by the Union County Board of Chosen Freeholders

UNION COUNTY
We're Connected to You!

Take time to visit Trotter's Creek Trail, Elizabeth's Last Woods, and learn about what's in your ecosystem!

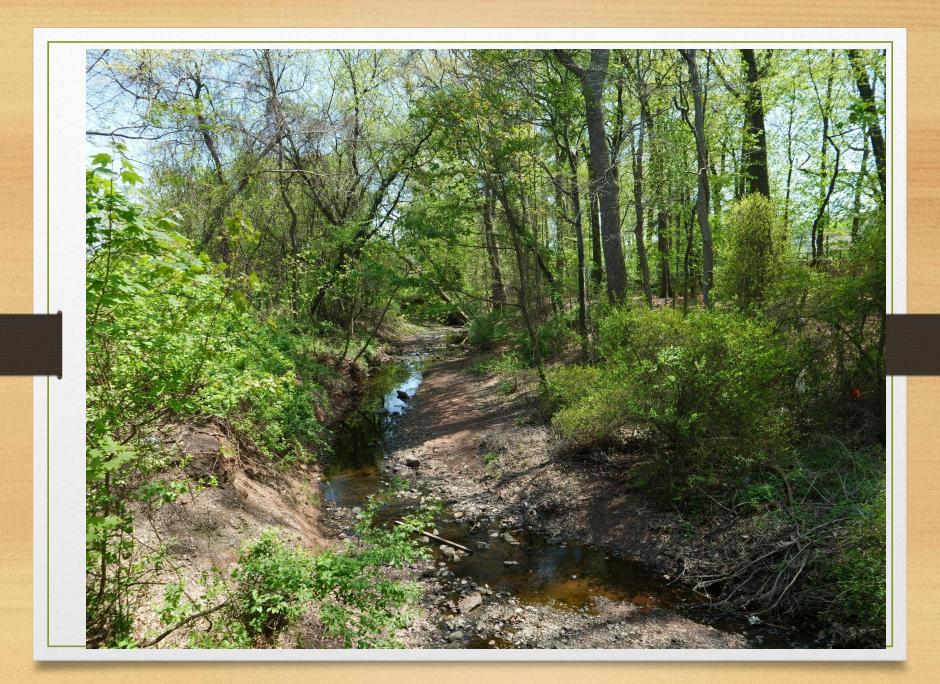




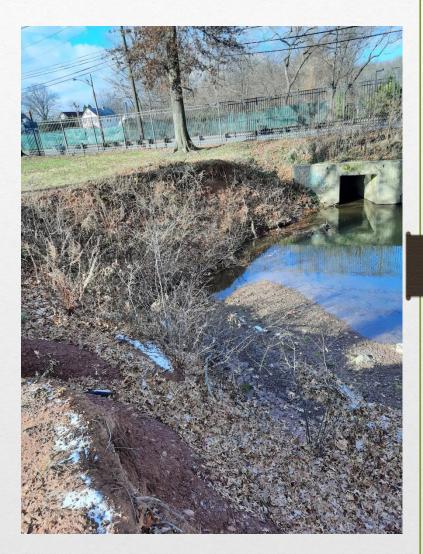
Special Thanks to Kean University (SESS) students for providing content throughout the trail.

For more information: www.groundworkelizabeth.org

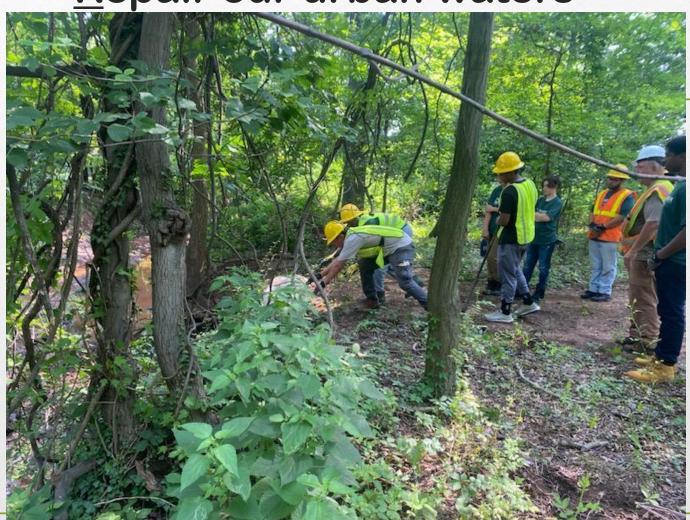








Just as we plant MicroForests, we Repair our urban waters



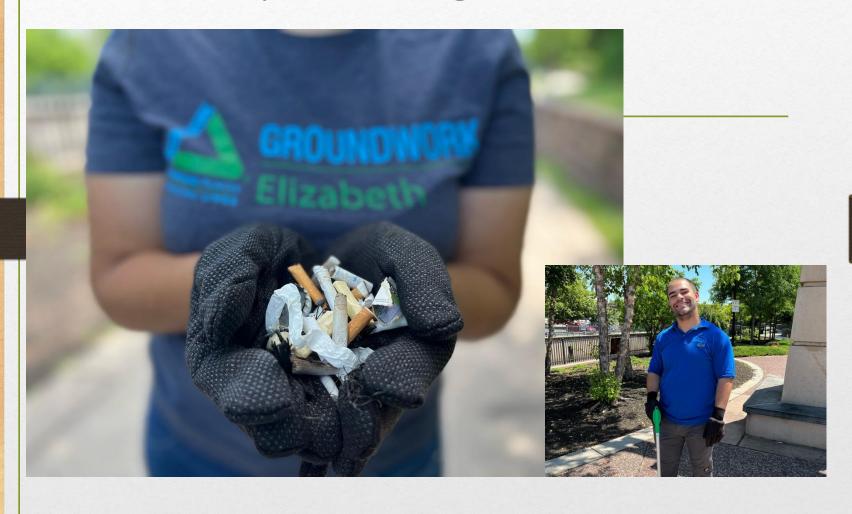


To promote community support and EJ, we engage community through events and programs along urban waters





Cleanups along riverbanks







SUSTAINABILITY!! Youth participation, our next Generation





Next Generation of Community Leaders





Mayor's Youth Council and our GREEN TEAM





Quick recap:

- Improve EJ communities with more trees, MicroForests
- Restore and repair riverbanks, reduce flooding, enhance natural environment
- Get community educated and motivated to continue the progress.







QUESTIONS and contacts

URBAN MICRO FORESTS

CLIMATE CHANGE MITIGATION & BIODIVERSITY RESTORATION



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URBAN MICRO FORESTS GROW











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- · Air Pollution Removal: Air quality is improved by reducing air temperature, directly removing pollutants from the air through tree leaves and offsetting carbon dioxide emissions (reducing energy consumption in buildings consequently reduces air pollutant emissions from the power sources).
- Stormwater Management: Surface stormwater runoff can cause concern in many urban areas as it can contribute to the pollution streams,
- · Energy Savings: Trees reduce building energy use in warm months and allow warmth from sunlight in winter while protecting from wind

























Questions?



Thank you!

You can reach us at:

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Check out our:

Free Technical Assistance Offerings https://groundworkusa.org/ta-services/

Brownfield Newsletter https://groundworkusa.org/

