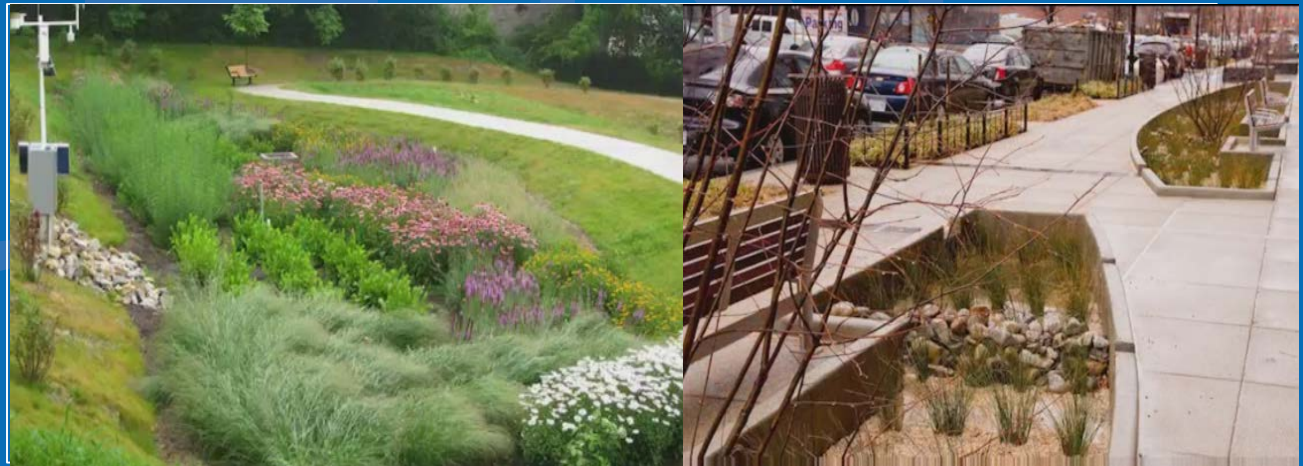
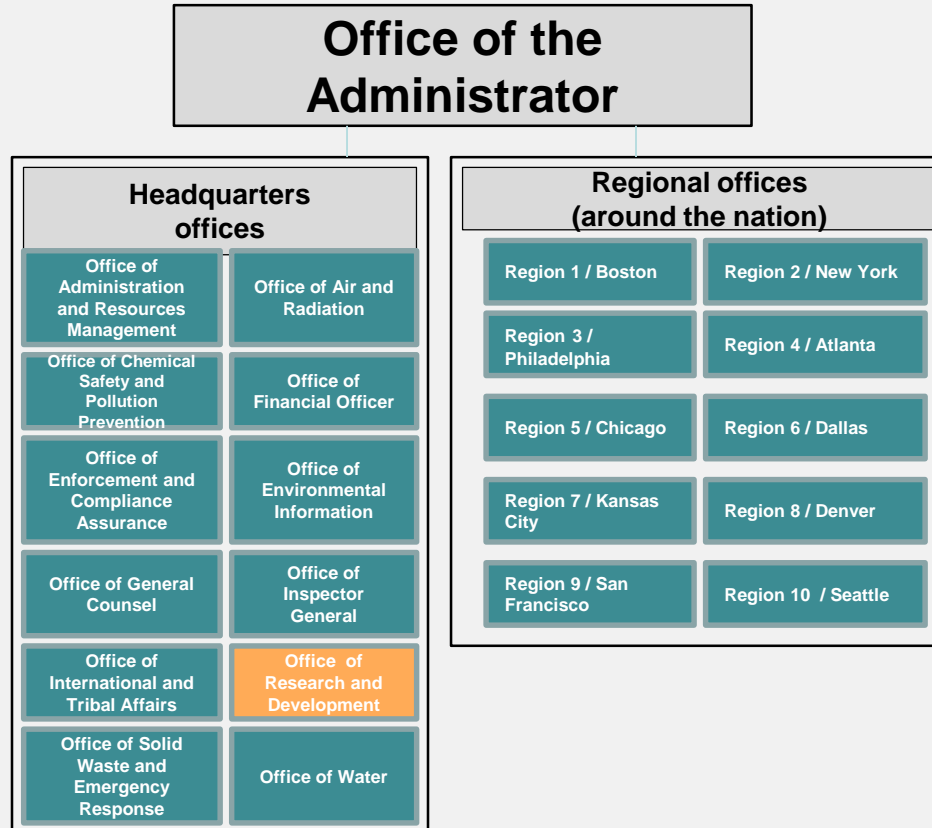


STAR Progress Review for Philadelphia Green Infrastructure Grants

*James H. Johnson, Jr., Ph.D.
Director, National Center for
Environmental Research*



U.S. EPA Organization Chart



NCER – Where we Fit

Immediate Office of the Assistant Administrator

Office of the
Science Advisor

National Program Directors

- Air, Climate & Energy
- Chemical Safety for Sustainability
- Safe and Sustainable Water Resources
- Sustainable and Healthy Communities
- Human Health Risk Assessment
- Homeland Security

Headquarters Offices

Administrative offices
Office of Science Policy– RSL/STL

National Research Laboratories and Centers

Health and
Environmental
Effects Lab

Exposure
Research
Lab

Risk
Management
Lab

Environmental
Assessment
Center

Computational
Toxicology
Center

Homeland
Security
Center

Environmental
Research
Center

Office of Research and Development Research Programs

Sustainable & Healthy Communities Research

Protecting children
and other susceptible
populations

Supporting citizen decisions to foster
community health and sustainability

Cleaning up contamination
for productive sites



Air, Climate & Energy Research

Addressing changes in
climate and air quality

Assessing impacts of air pollutants
and climate change

Preventing and reducing emissions



Safe & Sustainable Water Resources Research

Supporting the nation's
water infrastructure
systems

Protecting our
coastal and
inland waters

Ensuring drinking water
quality and availability



Human Health Risk Assessment Research

Supporting communities with
environmental and health risk
assessments

Developing
assessments
for improved
public health

Providing
the science
to support
the air
quality
standards

Modernizing risk
assessment



Chemical Safety for Sustainability Research

Providing 21st century data on
chemical risks to health and
environment

Facilitating faster
and more effective
chemical safety
assessments

Advancing sustainability by
using green chemistry principles



Homeland Security Research

Characterizing
contamination and
determining risks

Securing and sustaining
water systems

Remediating
indoor and
outdoor
locations



<http://epa.gov/research>

NCER Mission & Vision

Mission:

To support **high**-quality research by funding the nation's leading scientists and engineers to improve EPA's scientific foundation for decisions

Vision Statement:

NCER engages the scientific community to advance research for sustainable solutions to human health and environmental challenges

Mantra:

Researching a sustainable tomorrow, today



Science To Achieve Results (STAR)

Mission: Include this country's universities and non-profit institutions in EPA's research program and ensure the best possible quality of science in areas of highest risk and greatest importance to the Agency

Implementation: Through competitive grants, STAR program supports the priority research areas in the ORD Strategic Plan and ultimately the Agency's Strategic Goals.

STAR research is designed to complement the ORD Research Programs.



- Homeland Security (HS)
- Air, Climate & Energy (ACE)
- **Safe & Sustainable Water Resource (SSWR)**
- Sustainable & Healthy Communities (SHC)
- Human Health Risk Assessment (HHRA)
- Chemical Safety for Sustainability (CSS)

Why Philadelphia?

- Has one of the oldest sewer systems in the country.
- EPA and Philadelphia signed a unique Federal-City Partnership in 2012
- Collaborative research partnerships



Green City, Clean Waters

Meeting Goals

- Present progress to date focused on the five research themes from the 2012 RFA
- Foster collaboration and interactions between grantees and EPA scientists





Tom Ballestero

University of New Hampshire

Taking it to the Streets: Green Infrastructure for Sustainable Philadelphia Communities – R835578



Laura Toran

Temple University

An Integrated Strategy to Improve Green Infrastructure
Approaches in Philadelphia – R835557



Robert Traver **Villanova University**

Next Generation Volume Reduction Green
Infrastructure Stormwater Control Measures in Support
of Philadelphia's Green City Clean Waters Initiative –
R835556



David Hsu

MIT/University of Pennsylvania

Enabling Citizens and Owners to Invest in Green
Infrastructure in Philadelphia - 835554



Arthur McGarity Swarthmore College

Performance and Effectiveness of Urban Green Infrastructure: Maximizing Benefits at the Subwatershed Scale through Measurement, Modeling, and Community-Based Implementation - 835555

