

Uniting Artists and Urban Residents for Green Infrastructure

Maryann Helferty

US EPA, Mid-Atlantic Region









Opportunity: Gray to Green Infrastructure

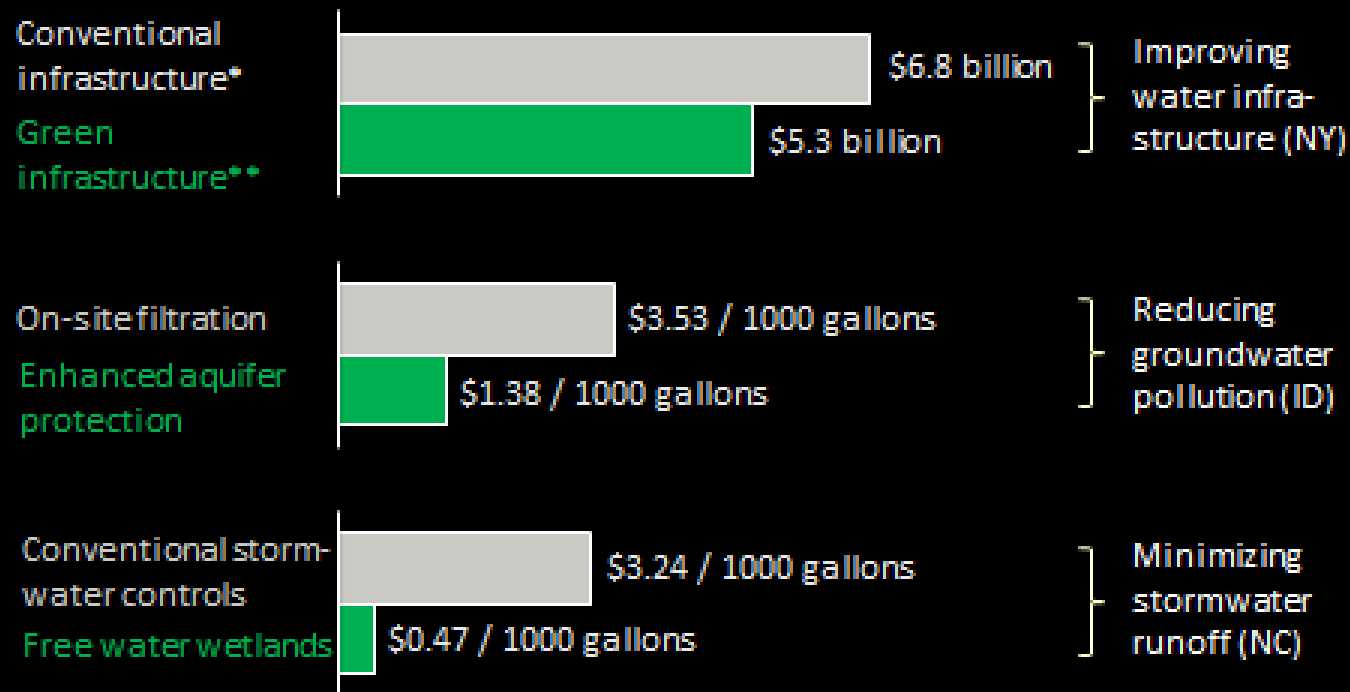


Opportunity: Drainage to Retention



Opportunity: Expenses become savings

Figure 1. Examples of green vs. gray infrastructure costs



* Includes tunnels, diversion structures, and other approaches.

** Restored stream buffers, bioswales, green roofs, and other approaches.

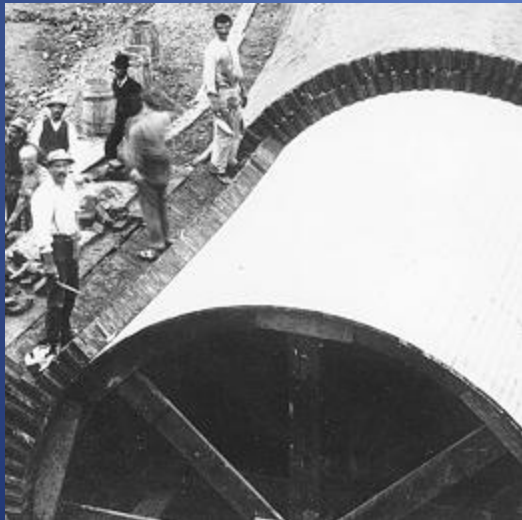
Source: PlaNYC 2011, BBC Research 2001, ACOE 2003



Combined Sewer Overflow



Degraded Waterways



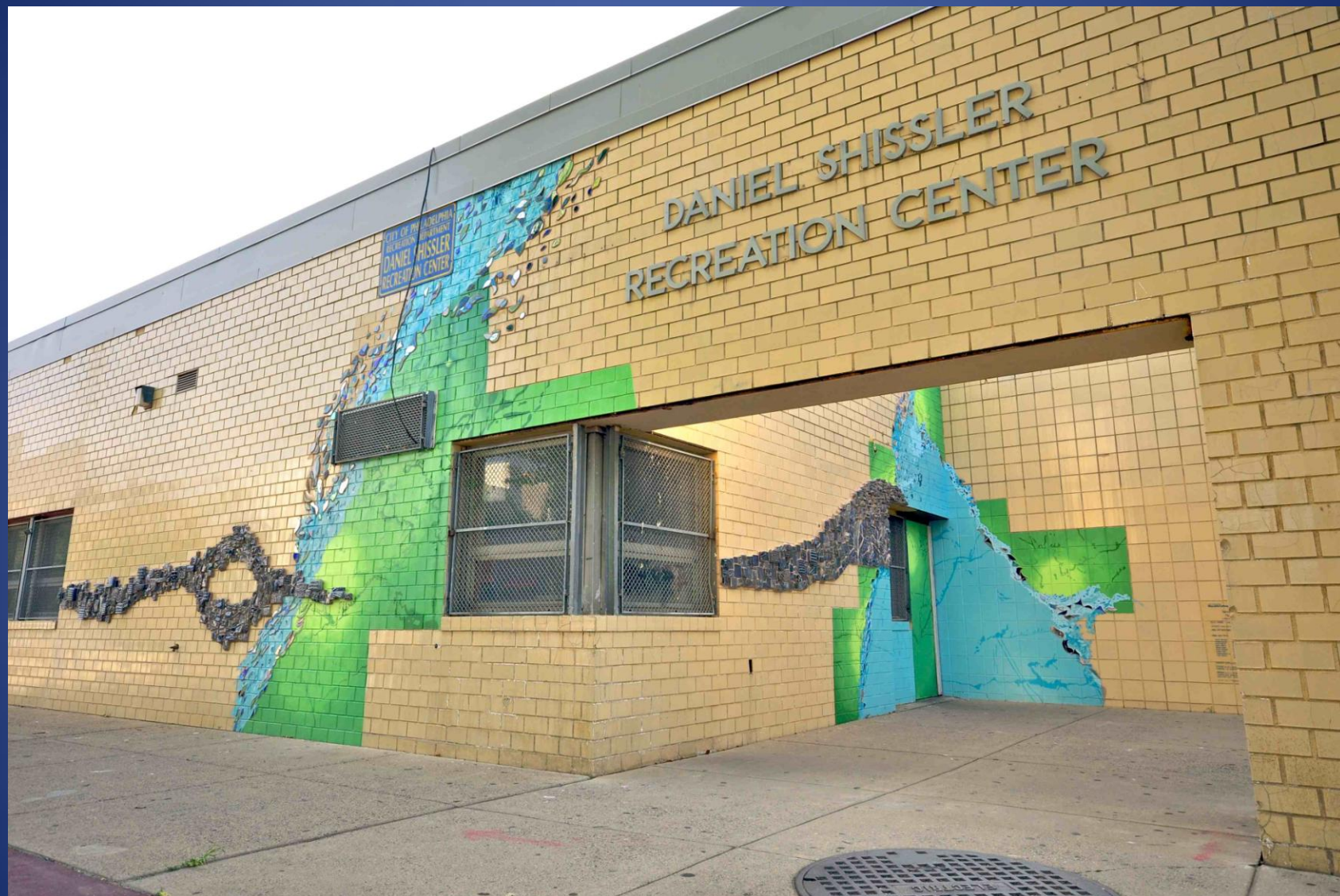
Aging Infrastructure

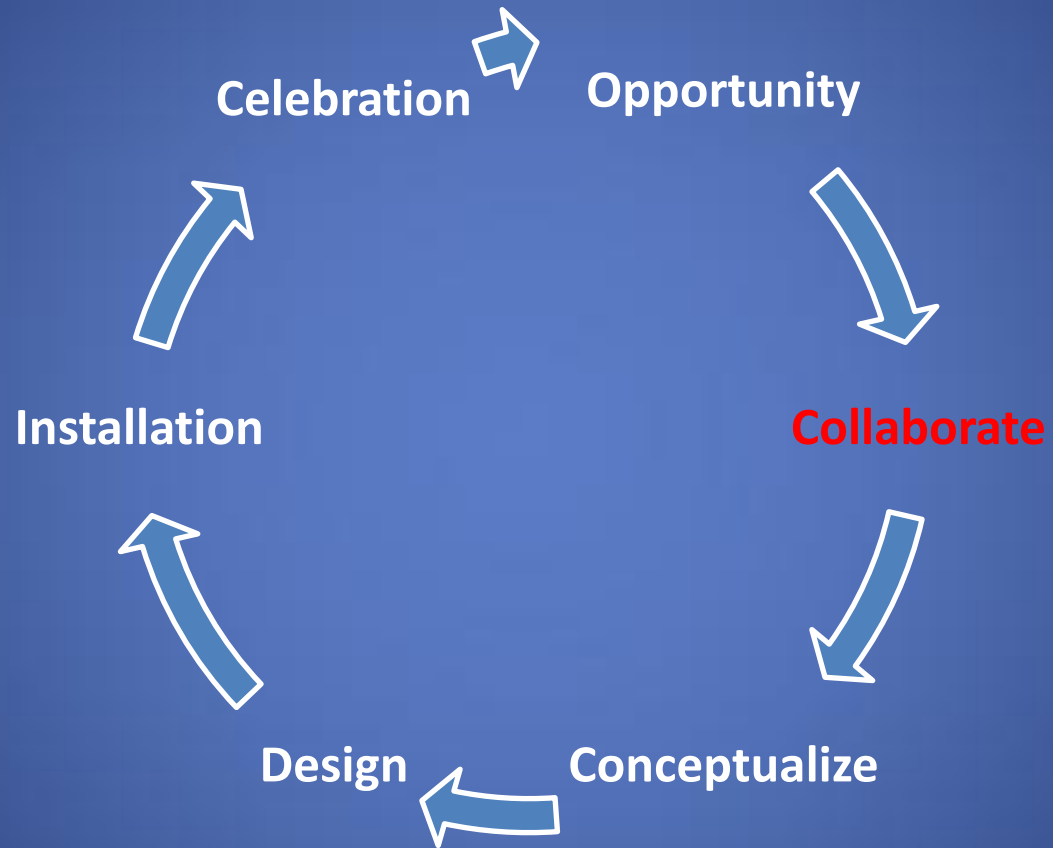


Source Water Quality









THE GUIDE TO
SUSTAINABLE
PHILADELPHIA

grid

HOW-TO

FOR A BOLD PLAN

ATTRACT INVESTORS
NASHA CRADOCK

HOW TO GROW THE

An Oasis *in* Overbrook

James Shabazz's vision
for an urban green building project
means an \$80 million job

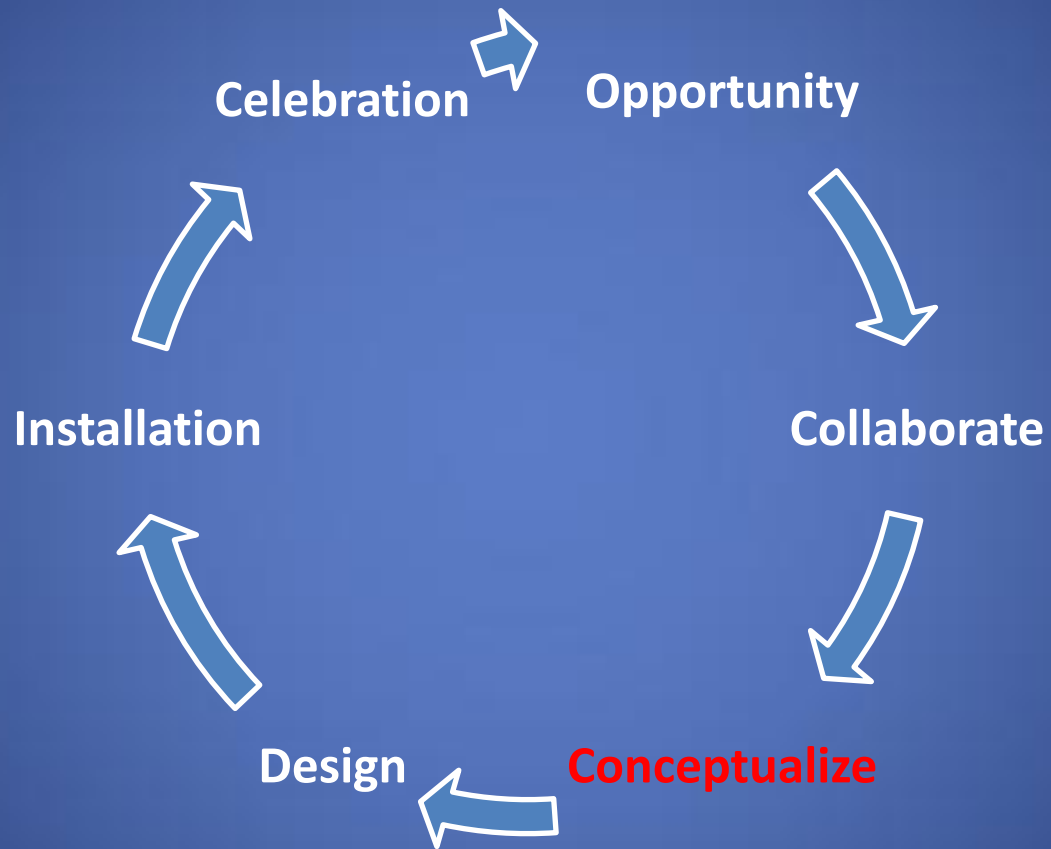
URBAN FARM DONAZZI

SALES, ADVERTISING, AND DESIGN, WILL GROW THEM
AND HAVE THEM GROW THEM TO MAKE THEM GROW





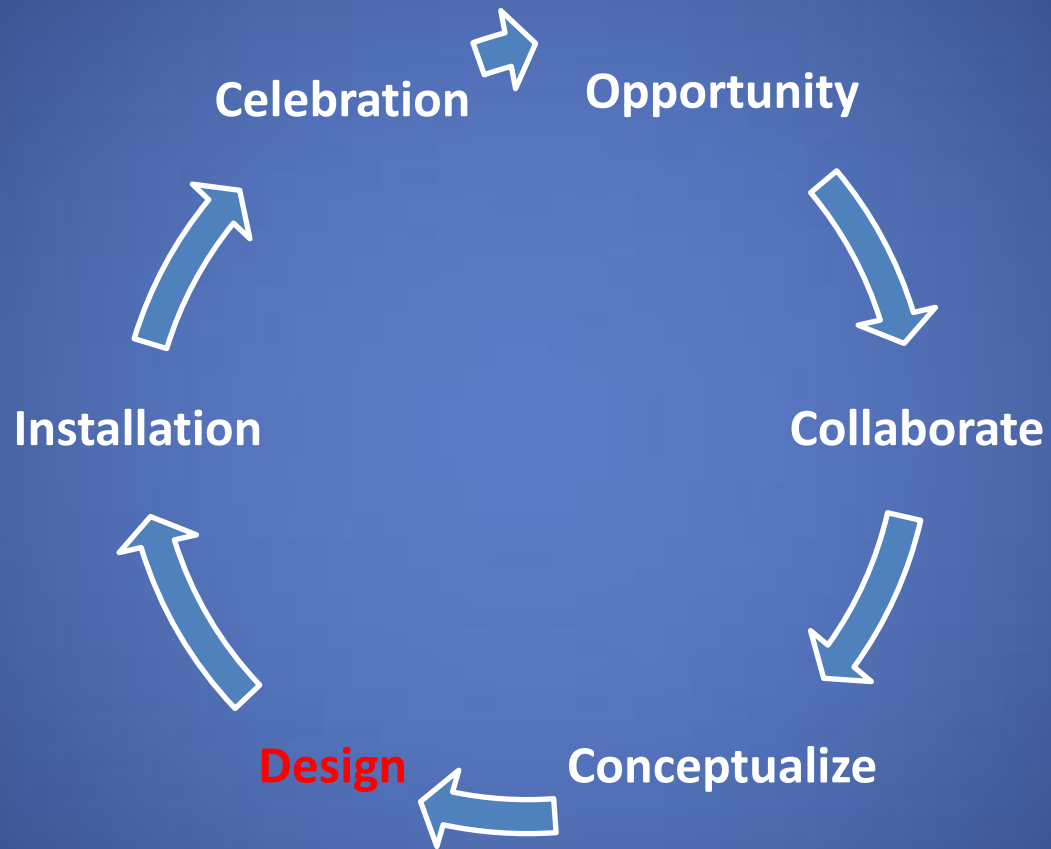






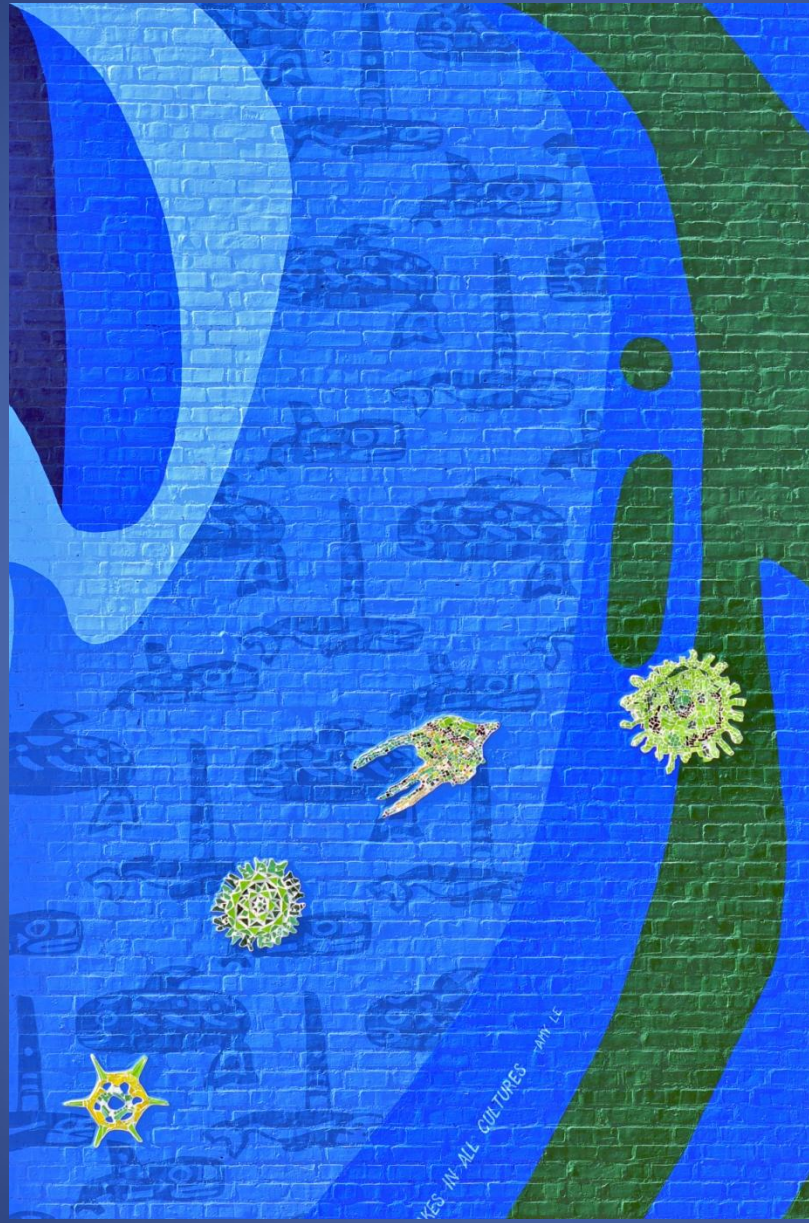














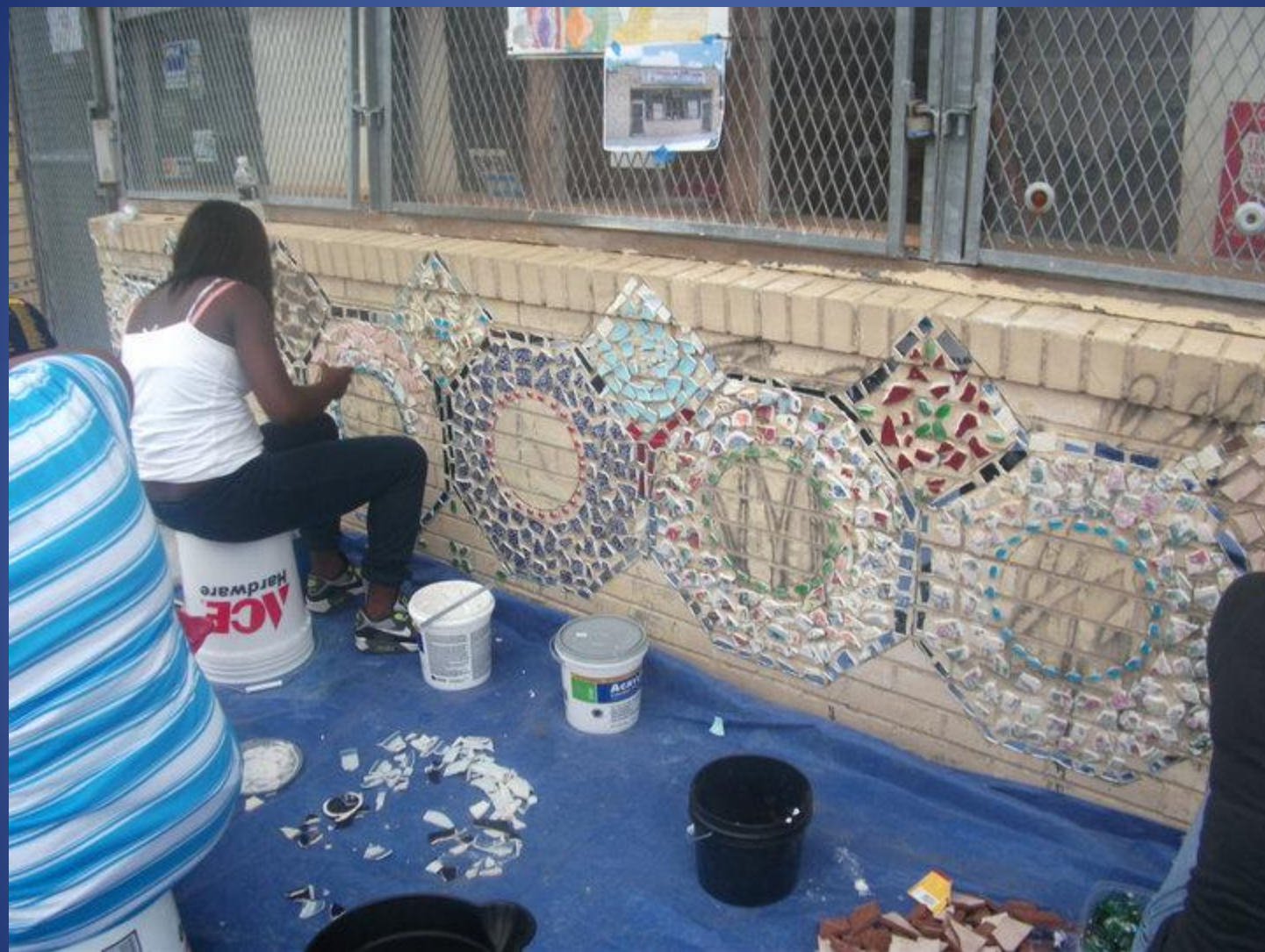








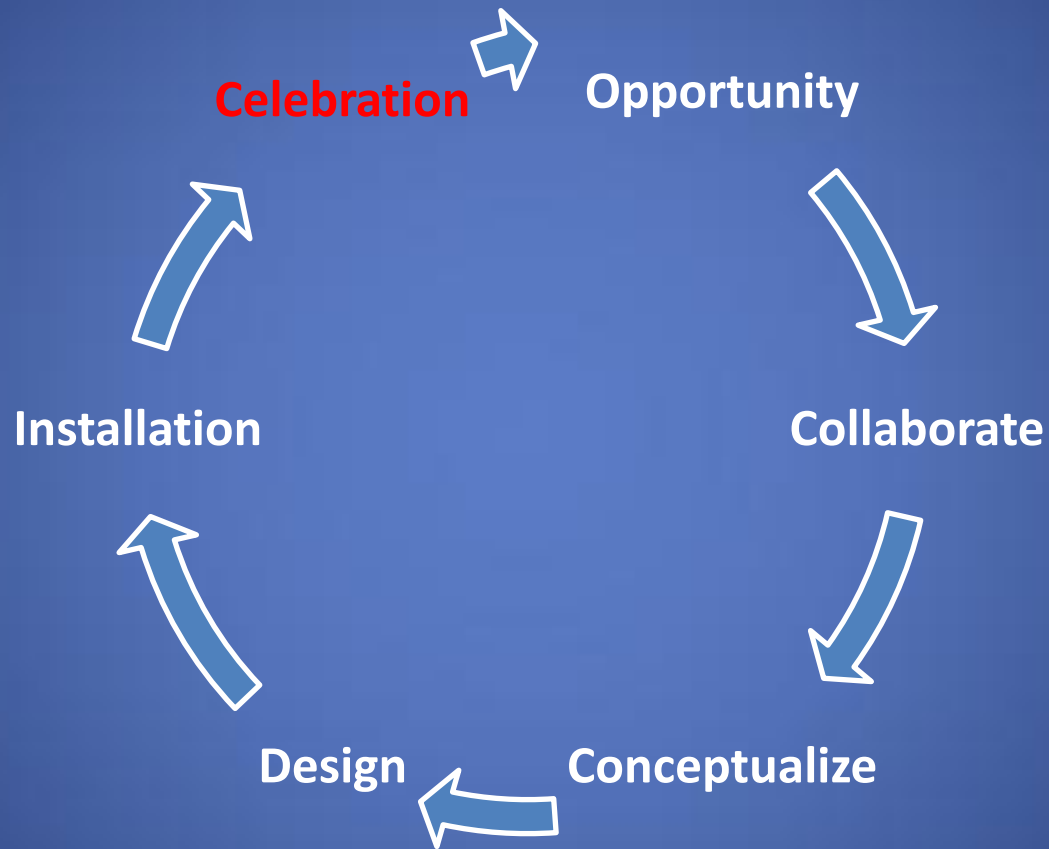








Delaware Bay Hydrograph
At Bodine High School







THOMAS JEFFERSON
PUBLIC SCHOOL



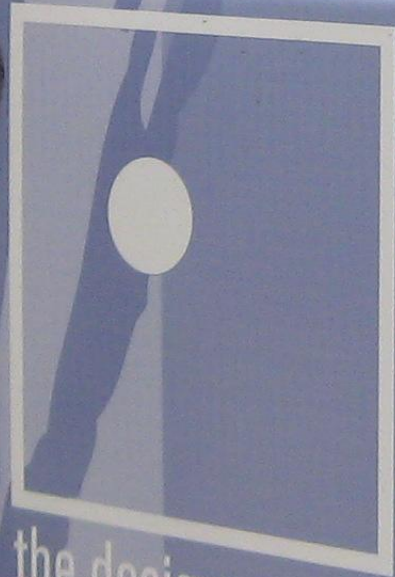
BODINE HIGH SCHOOL for
INTERNATIONAL AFFAIRS

VISITOR
ENTRANCE
1101 N



Opportunity: Boost Recycling Rates by Changing Public Perception of Sanitation





City of Philadelphia
Mural Arts Program
Title: *Draw your World*
Artist: Debra Bender and Big P
from West Philadelphia Elementary School
© 2009













MT. AIRY ART GARAGE
COMMUNITY CONNECTIONS AND ART













Opportunity: Urban Environmental Ed Centers are Incubators for Green Infrastructure









Rebuilding
Together®
Philadelphia

www.rebuildingphilly.org

215.568.5044









Urban Arts Centers: “Third Space” for Creating Community

Between Home and Workplace











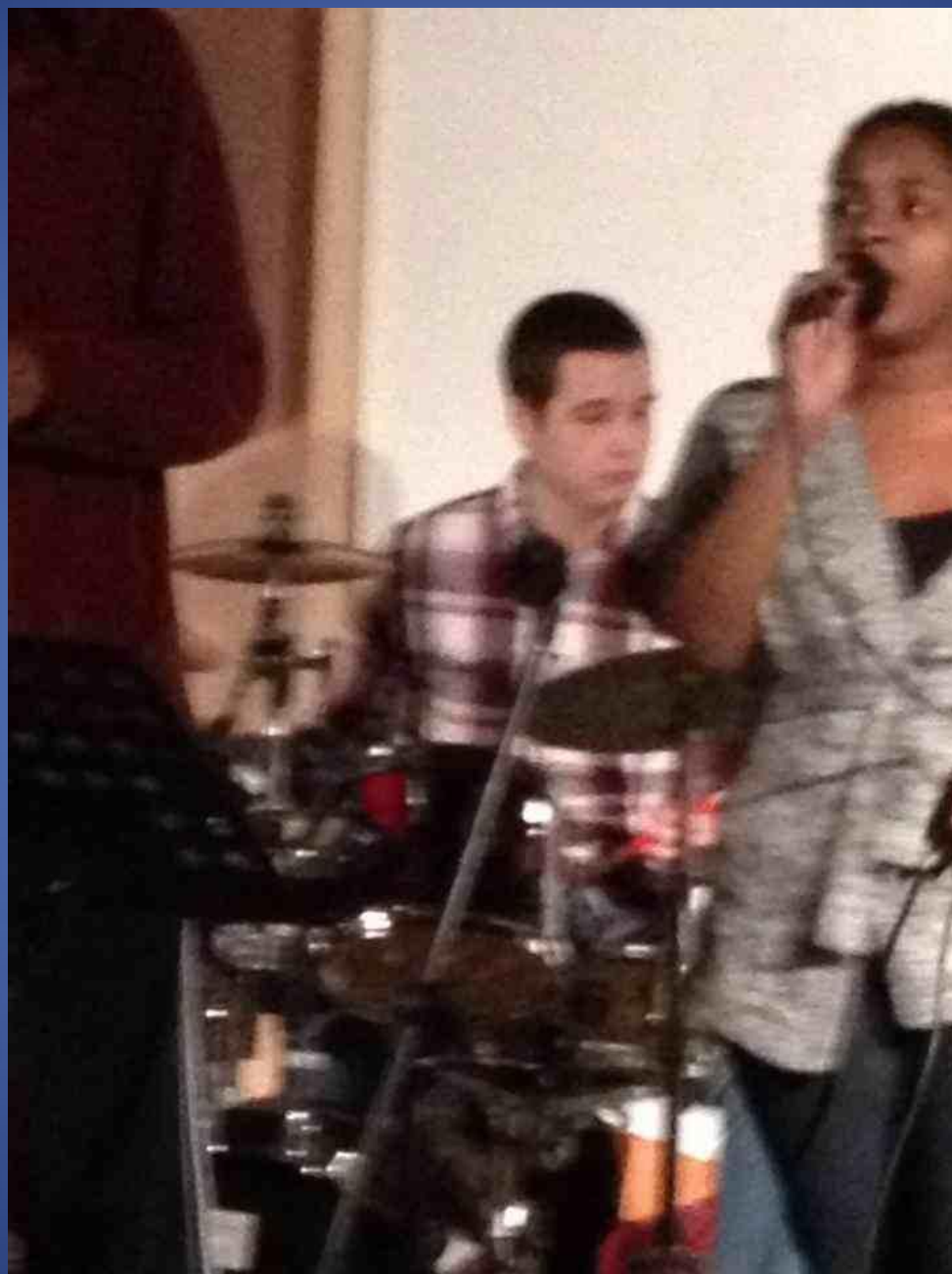
*Recapturing
Memories...*

October 21 – November 18, 2011

www.meeiling.com

An Art Installation Exhibit by Meei-Ling Ng

Opening Reception: Friday, October 21, 6 – 8 pm



MAAG Member & Friends
Thank-You Celebration!

POTLUCK

spectacular

Join us as we
celebrate the Mt. Airy
Art Garage and **YOU!**
We're throwing a party
to thank all our members
& supporters. Exciting
updates for 2013. Join or
renew your membership.
Meet fellow artists &
supporters. Come have
a good time!

Bring something to share!
Sat., Jan. 26, 6-9 pm

Mt. Airy Art Garage, 11 West Mt. Airy Ave., 19119

215.242.5074



Thanks to our partners!

- Mt. Airy Art Garage
 - <http://mtairyartgarage.org/>
- Overbrook Environmental & Art Center
 - <http://www.jastechdevelopment.org/oec/default.asp>
- Philadelphia Mural Arts Program
 - <http://muralarts.org/>
- Recapturing Memories
 - <http://Meeiling.com>
- Renewed Urban Studio Tent
 - <http://andyandyrust.com/>

For more information

Maryann Helferty

Sustainability Advisor

US EPA Mid-Atlantic Office

Office of Environmental Innovation

1650 Arch St. R3 3EA40

Philadelphia PA 19119

Helferty.maryann@epa.gov

2150814-3299

Using Social Media and High Touch Design To Connect Urban Residents and Wetlands

DRNREC's Office of Watershed Stewardship

Purify, Provide Protect Campaign

Delaware Wetlands

PURIFY

DELAWARE WETLANDS PURIFY OUR DRINKING WATER SUPPLIES BY FILTERING POLLUTANTS FROM WATERS UPSTREAM. IF YOU CARE ABOUT WATER QUALITY, ITS TIME TO CARE ABOUT WETLANDS. TO LEARN MORE ABOUT HOW WETLANDS WORK FOR US VISIT WWW.DNREC.DELAWARE.GOV/ADMIN/DELAWAREWETLANDS



PROVIDE

DELAWARE WETLANDS PROVIDE HABITAT AND SHELTER FOR RARE AND COMMERCIALY IMPORTANT FISH AND WILDLIFE. LET'S PROTECT THEM. TO LEARN MORE ABOUT HOW WETLANDS WORK FOR US VISIT WWW.DNREC.DELAWARE.GOV/ADMIN/DELAWAREWETLANDS

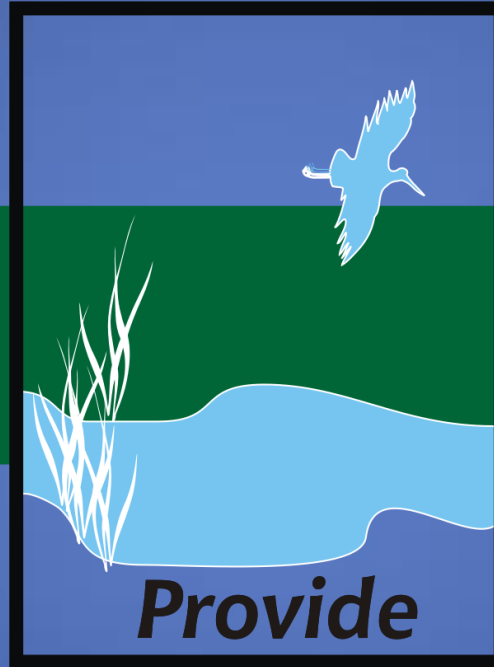


PROTECT

DELAWARE WETLANDS ACT LIKE SPONGES TO PROTECT YOUR HOME FROM FLOODING. ONE ACRE OF WETLANDS CAN HOLD UP TO 1 MILLION GALLONS OF STORMWATER. LET'S PROTECT THEM. TO LEARN MORE ABOUT HOW WETLANDS WORK FOR US VISIT WWW.DNREC.DELAWARE.GOV/ADMIN/DELAWAREWETLANDS



Delaware Wetlands



www.dnrec.delaware.gov/admin/delawarewetlands



**HAS
YOUR
WATER**



MITT
A
WETLAND
WETLAND