# Stream Restoration and Environmental Justice: Confluence or Countercurrent?



Sharon Moran, PhD

SUNY –Environmental Science and Forestry



Kathy Hoverman, P.E.

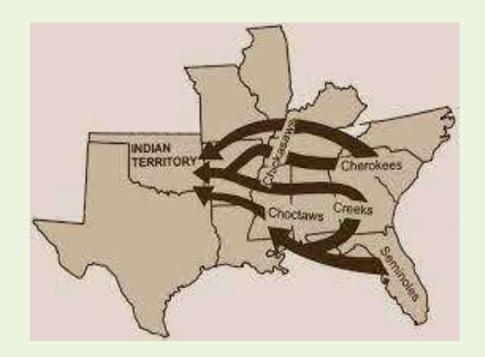
Resource Environmental Solutions



#### Land Acknowledgement

We collectively acknowledge that this location occupies the ancestral hunting and traditional Lands of the Cherokee, Shawnee, Choctaw, Chickasaw, and Creek peoples, groups that were subjected to forced removals from their Homelands.\*





# Stream Restoration and Environmental Justice: Confluence or Countercurrent?

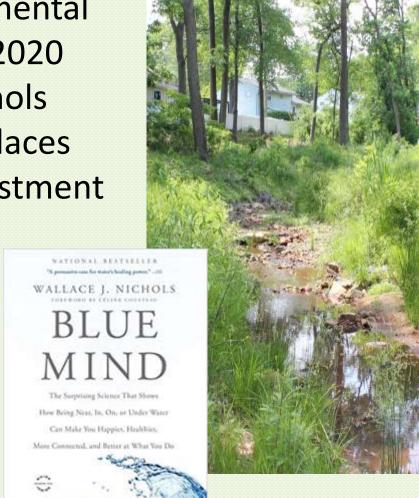
1 What People Think About It

2 The State of the Art

3 Directions Toward Change

#### Why is this a Topic at NSRC

- Social AwakeningEnvironmental Justice (EJ) knowledge in 2020
- Blue Mind, Wallace J. Nichols
  - My job makes happy places
- Who gets restoration investment
- Is EJ on anyone's mind in selecting projects



#### Survey Says

- Most respondents do not have EJ focus or projects
- Non-profits leading the way in EJ based projects
- Grant funding leading the "mandate" to include EJ
- Preventing more EJ investment
  - Urban locations
  - MS4 projects take priority/funding
  - Lack of uplift
  - Squeaky wheel, repairs
  - Property ownership

# Stream Restoration and Environmental Justice: Confluence or Countercurrent?

1 What People Think About It

2 The State of the Art

3 Directions Toward Change

#### Environmental Justice

"The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies" (US EPA 2017)



#### How to be an Anti-Racist (2019)



Ibram Kendi has shown how people can be unwittingly supporting racism through: ignorance, silence, not-the-time, notthe-place, not me.

To help achieve environmental justice, it is essential that environmental equity gets advanced, not just held asis, and certainly not reversed.

Using the lens of environmental justice, we identify several things about how stream restoration projects have been happening, and here are a few:

 Projects are not always as well-represented and communicated as they could be.

### Communication to People?



#### **Effective Messaging**



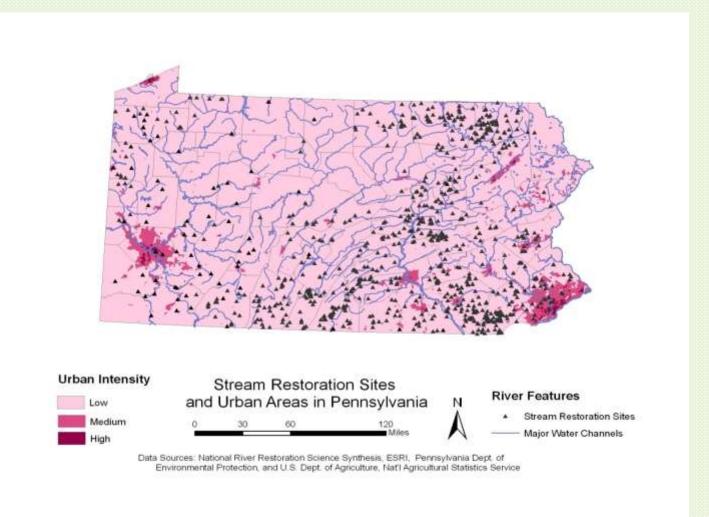
#### **WARNING!** Fish from these waters contain chemicals and should not be eaten by women or children. Others should limit what they eat. ती राजीत बारत साम्यानक राजारीक राजीत प्रमान करी बड़िया र ब्रमूपाने केल को हीक अपने के करे. soult alexandrate equipment or and contract the soul of the soul o ηθεοφαλες δοιλουσδορτοδοκοστικοδικών ακαρτικομές ne voca na voca voca na por menera na voca na voca na voca na voca na voca αδησομημεροκεδος υσίμους Peligral Las pesses de estes eques contienen químicos y na deben. car concumidos por mujeras o riños. Las damás parsonas debanlimiter la que comen. Para excepciones por favor visite la pégina: Para mas información: ex streatfut fired exter Learn More! Go to www.heelth.ny.gov/fish or cell the NYS Department of Health at \$18,400,7800

Using the lens of environmental justice, we identify several things about how stream restoration projects have been happening, and here are a few:

 Projects are not always as well-represented and communicated themselves as well as they could be.

• Projects goals may not target and advance environmental justice.

#### Who Benefits, Who Pays?



Using the lens of environmental justice, we identify a few things about how stream restoration projects have been happening, and here are a few:

 Projects are not always as well-represented and communicated themselves as well as they could be.

 Projects goals may not target and advance environmental justice.

 Existing project metrics may not be the best indicators of the extent to which environmental justice goals are being served.

### From 'Dead' to 'Life Sustaining'



# Stream Restoration and Environmental Justice: Confluence or Countercurrent?

1 What People Think About It2 The State of the Art3 Directions Toward Change

Gentrification is a major threat when a stream restoration improves a watershed, increasing the market value of properties, especially in a community lacking in planning capacity.

Regulators do have some planning tools to help head this off, and these tools would include: rent control, zoning, taxation, easement, partnerships with NGOs, and capacity building.

Nonetheless, they are not being used as effectively as we might hope, and perhaps better tools can be developed.



#### Racial Justice is Tough to Think about:

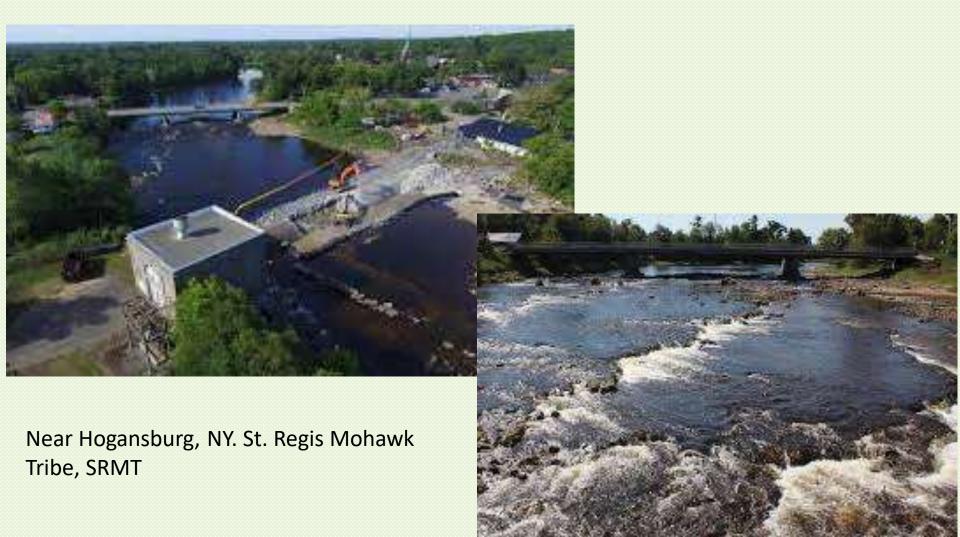
many of us simply want it now, already. We want the past stuff gone and behind us.
for white people there can be emotions including guilt, shame, and feeling overwhelmed.
and for BIPOC, thinking about racial justice can be enraging, exhausting, as well as overwhelming.
the only consolation for everyone listening is that while none of us get to influence what has already happened, we can help steer things in the future.

#### Important to track new information about:

- -structural racism
- -the doctrine of discovery
- -reparations
- -Indigenous environmental knowledge / belief systems -movements for land back / water back



## Dam removal, Akwesasne Indigenous Nation



### Targeted Community Engagement and Advocacy

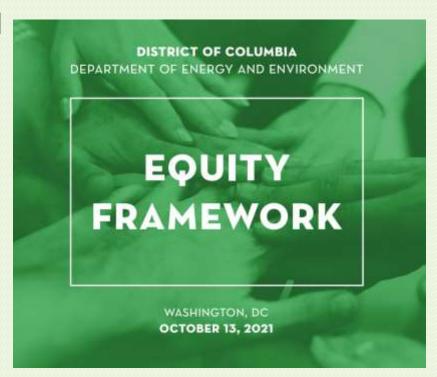




Atlanta, GA, South River Watershed Association

## Getting Serious about Environmental Equity/Justice Programmatically

- Example: Washington DC
  - Racial Equity Impact Assessment (REIA)
  - The Racial Equity Budget Tool (REBT)
  - Trainings on history, cultural, racial disparity issues



Getting Serious about Environmental Equity/Justice Culturally

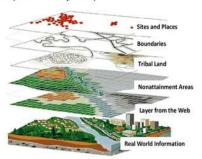
- Know your community
  - How are resources used
  - EJ Screen, EPA
  - Community leaders
- Partner with/Learn from Those Leading EJ Efforts



EJSCREEN has Many Other Map Layers

EJSCREEN adds many other types of data by overlaying various datasets (called "layers")







#### In Summary

Change is already happening, so there can be a confluence between stream restoration and environmental justice, but so far it has been slow and incremental.

For change to be sustained and durable, it will require improved systems and practices; without it, there will be backsliding.

The best way to get meaningful change will be with lots of input from communities, managers, and from practitioners representing a range of stream restoration specialties.



#### Image Sources

- National Park Service, https://www.nps.gov/trte/learn/historyculture/upload/The-Trail-Where-They-Cried-508.pdf
- Author photos
- US EPA
- Syracuse.com
- Onondaga Environmental Institute
- NYWEA
- American Rivers https://www.americanrivers.org/threats-solutions/restoring-damaged-rivers/
- South River Watershed Association https://www.southriverga.org/advocacy
- Anacostia River, Tyrone Turner/WAMU
- George Tames/NYT, https://www.nytimes.com/2017/02/18/us/martin-luther-king-resurrection-city.html
- Gerald Herbert/AP for the New York Times, <a href="https://www.nytimes.com/2022/01/26/climate/epa-environmental-justice-regan.html">https://www.nytimes.com/2022/01/26/climate/epa-environmental-justice-regan.html</a>
- Baltimore Sun

#### Continued Topic Engagement

Dr. Sharon Moran, Associate Professor (she/her pronouns) Department of Environmental Studies SUNY – Environmental Science and Forestry Syracuse, NY 13210 <a href="mailto:smoran@esf.edu">smoran@esf.edu</a> // <a href="https://www.esf.edu/faculty/moran/">https://www.esf.edu/faculty/moran/</a>

Kathy Hoverman, P.E., Senior Project Manager (she/her pronouns) **RES** | res.us | khoverman@res.us | https://www.linkedin.com/in/kathy-hoverman-p-e-16421215/