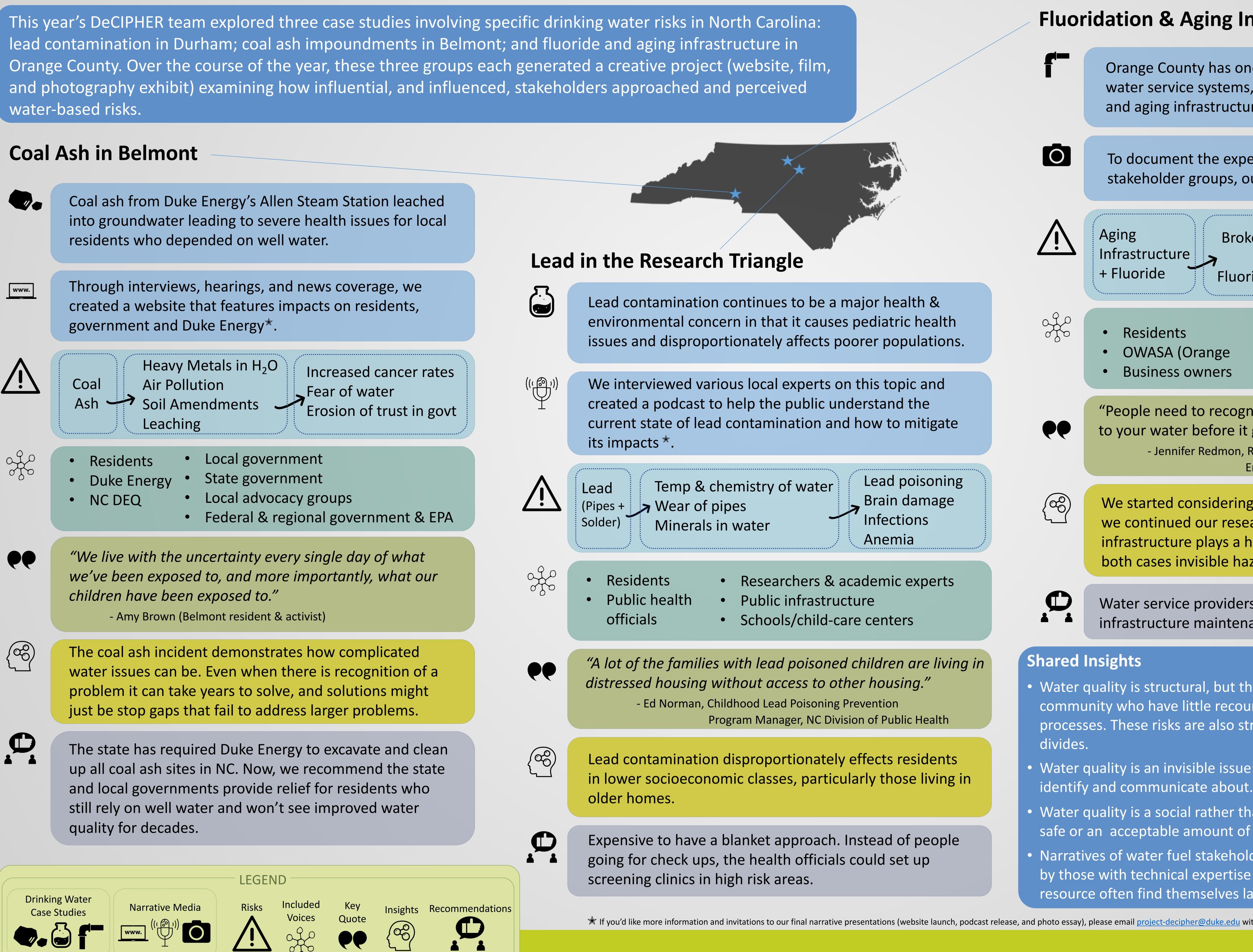


BASS CONNECTIONS



From Source to Tap: DeCIPHERing Risks of Drinking Water in North Carolina

Shabib Ansari, Nicholas Anuzis, Mark Borsuk, PhD, Kathleen M. Burns, MA, Ryan Calder, ScD, Nadratun Chowdhury, Richard T. Di Giulio, PhD, Tyler Felgenhauer PhD, Piyush Gambhir, Christine Ogilvie Hendren, PhD, Grace Jeffrey, Rupanjali Karthik, Kailai Lin, Yue Lin, Carly Osborne, Jandé Thomas, Priscilla Wald, PhD, Samantha Wind, Jonathan B. Wiener, JD, Clara Yoon, Hannah Zhuang

Acknowledgements: Thank you to Bass Connections and the faculty, experts, and community members who made these projects possible.

* If you'd like more information and invitations to our final narrative presentations (website launch, podcast release, and photo essay), please email project-decipher@duke.edu with subject line "Water Narrative" and we will be sure to share information!

Bass Connections in Energy & Environment

Fluoridation & Aging Infrastructure in Orange County

Orange County has one of the country's most reliable water service systems, yet issues with over-fluoridation and aging infrastructure led to water service interruptions.

To document the experiences of residents and other stakeholder groups, our team created a photo essay*.

> Broken main pipe Fluoridating agent

Lack of water + High levels of fluoridating agent (carcinogen)

• Experts in dentistry, water resources, and engineering • Government (Federal and State)

"People need to recognize that there's a lot that happens to your water before it gets to the tap."

- Jennifer Redmon, Resident & Research Triangle Institute **Environmental Risk Assessor**

We started considering an over-fluoridation incident and as we continued our research, learned that aging infrastructure plays a huge role in water system failures; in both cases invisible hazards led to visible, real risks.

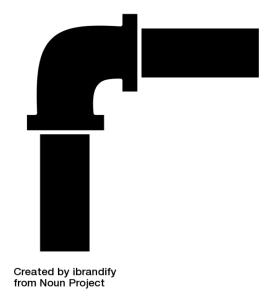
Water service providers and their funders should make infrastructure maintenance and replacement a high priority.

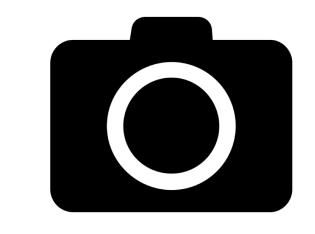
• Water quality is structural, but the burden of risks is on consumers and the community who have little recourse and power In decision-making processes. These risks are also stratified along socioeconomic and racial

• Water quality is an invisible issue: omnipresent yet unseen, it is difficult to

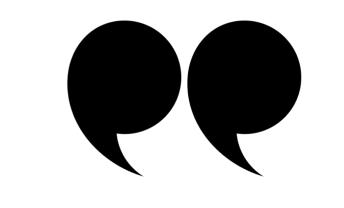
• Water quality is a social rather than technical issue. What is considered safe or an acceptable amount of risk is decided by society.

• Narratives of water fuel stakeholder perspectives and are largely controlled by those with technical expertise and finances; consumers of this public resource often find themselves lacking understanding and agency over it.





Created by iejank from Noun Project



Created by A.Varghese from Noun Project

