

Albemarle - Pamlico

National Estuary Partnership



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Communications and Outreach Intern

Development of Spatial Equity Tool

July 11, 2023
Leadership Council Meeting

Albemarle-Pamlico National Estuary Partnership (APNEP)



Who Am I?

- Rising Senior at North Carolina State University
- Majoring in Ecology, Evolution, and Conservation Biology
- Communications and Outreach Intern at APNEP

Broader Goals of the Project

- Learn how to apply introductory GIS software and data
- Consolidate six main environmental Justice screening tools laid out in Equity Strategy
- Expand list of equity tools
- Provide appropriate visualization for internal decision making and external education

Spatial Equity Tool

- Climate and Economic Justice Screening Tool (CEJST)
- EJScreen
- Title 1 Schools
- NC DEQ Community Mapping System (CMS)
- North Carolina Department of Commerce Development Tier Designation
- Southeast Crescent Regional Commission Designations



EJScreen: Total Thresholds Exceeded

About Content Legend

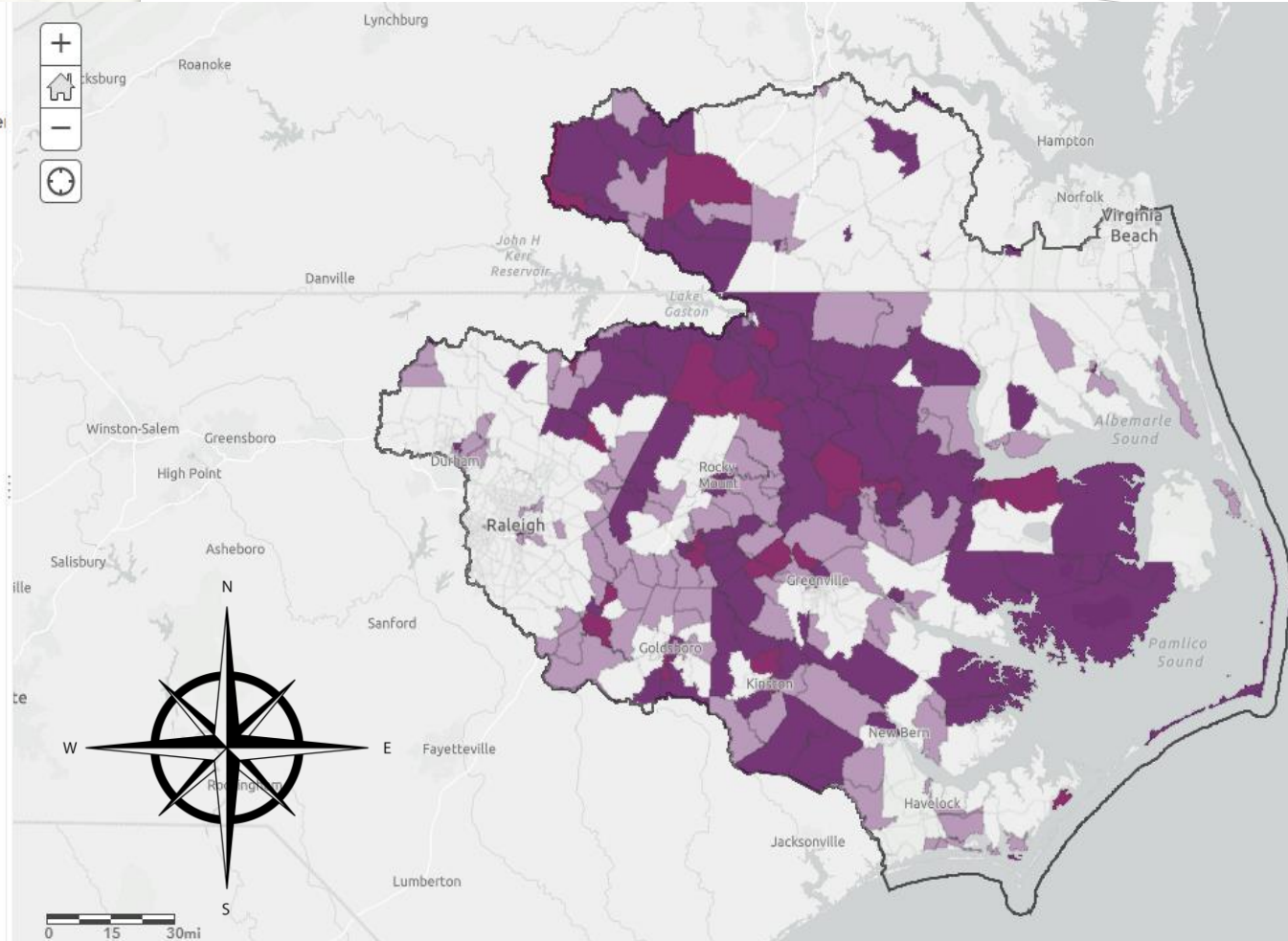
Legend

EJScreen_total_thresholds_possible_at_least_1_in_AP_water

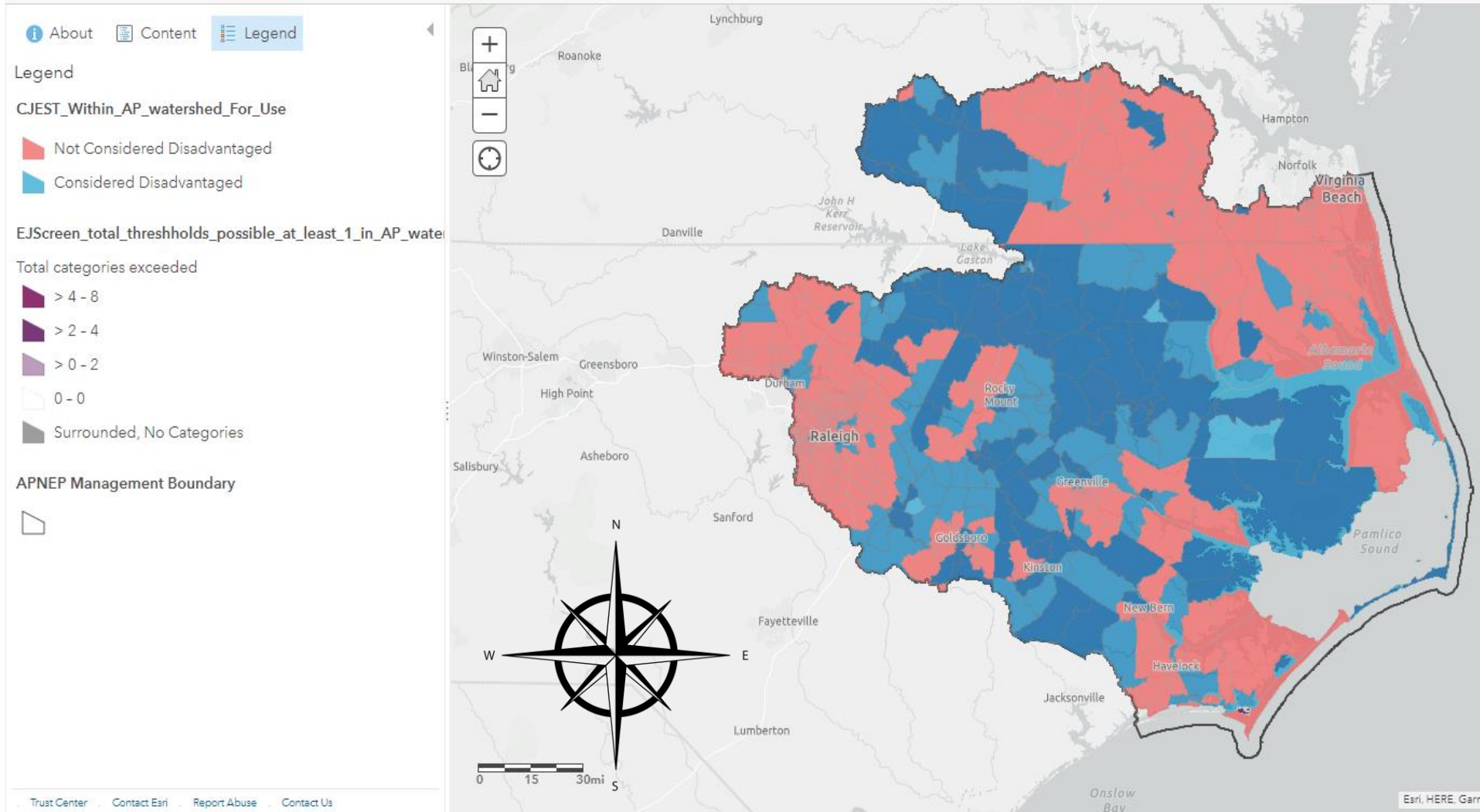
Total categories exceeded

- > 4 - 8
- > 2 - 4
- > 0 - 2
- 0 - 0
- Surrounded, No Categories

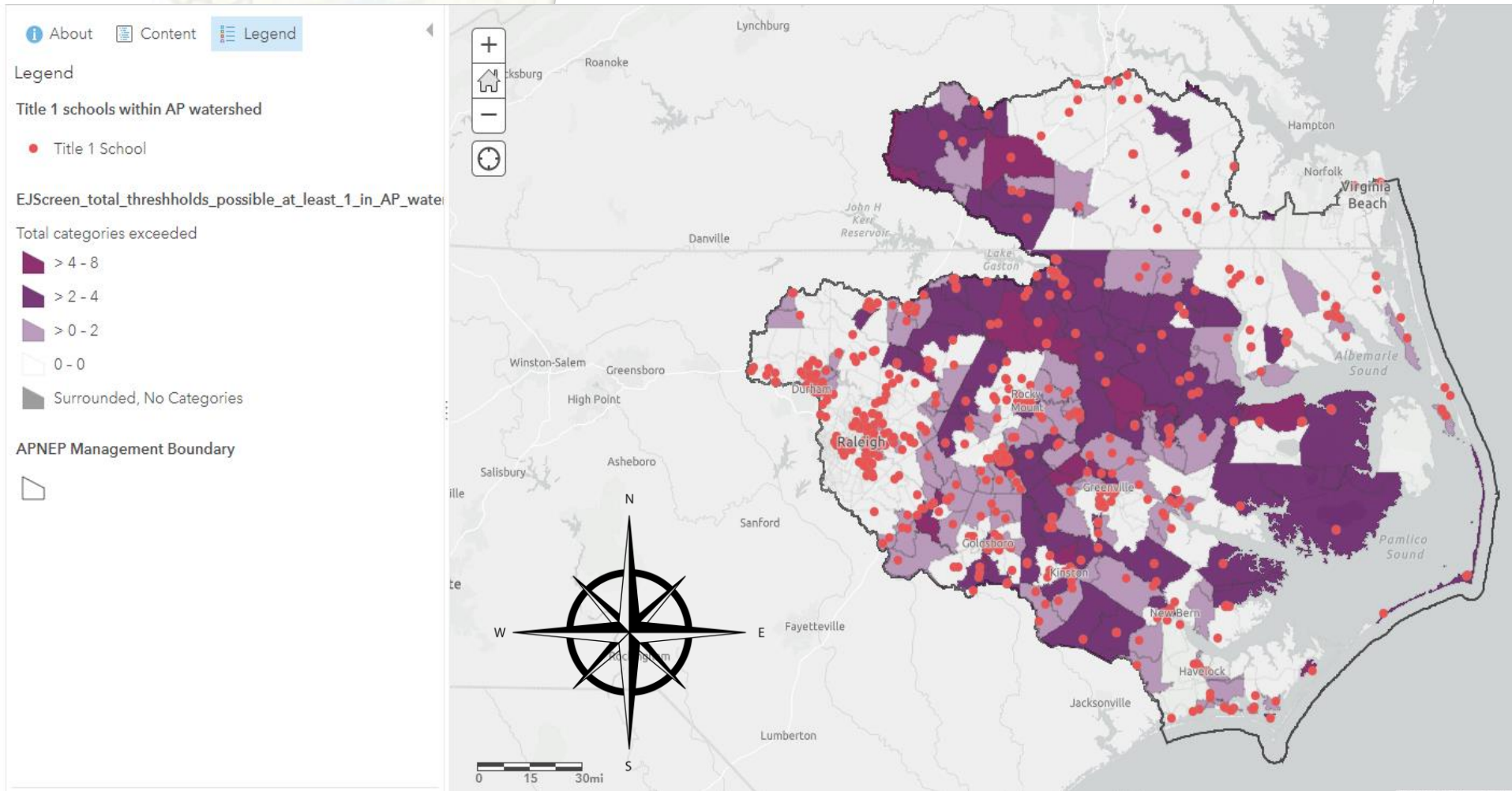
APNEP Management Boundary



EJScreen Overlayed with CEJST



EJScreen with Title 1 Schools



Spatial Equity Tool

- NC Coastal Area Management Act
- VA Coastal Zone Management Counties
- CDC Environmental Justice Index
- Rural Community Index
- Councils of Government (COGs)
- Planning District Commissions (PDCs)
- APNEP Projects
- NC and VA Counties



EJScreen with PDCs and COGs

Home ▾ APNEP Environmental Justice Map ✎

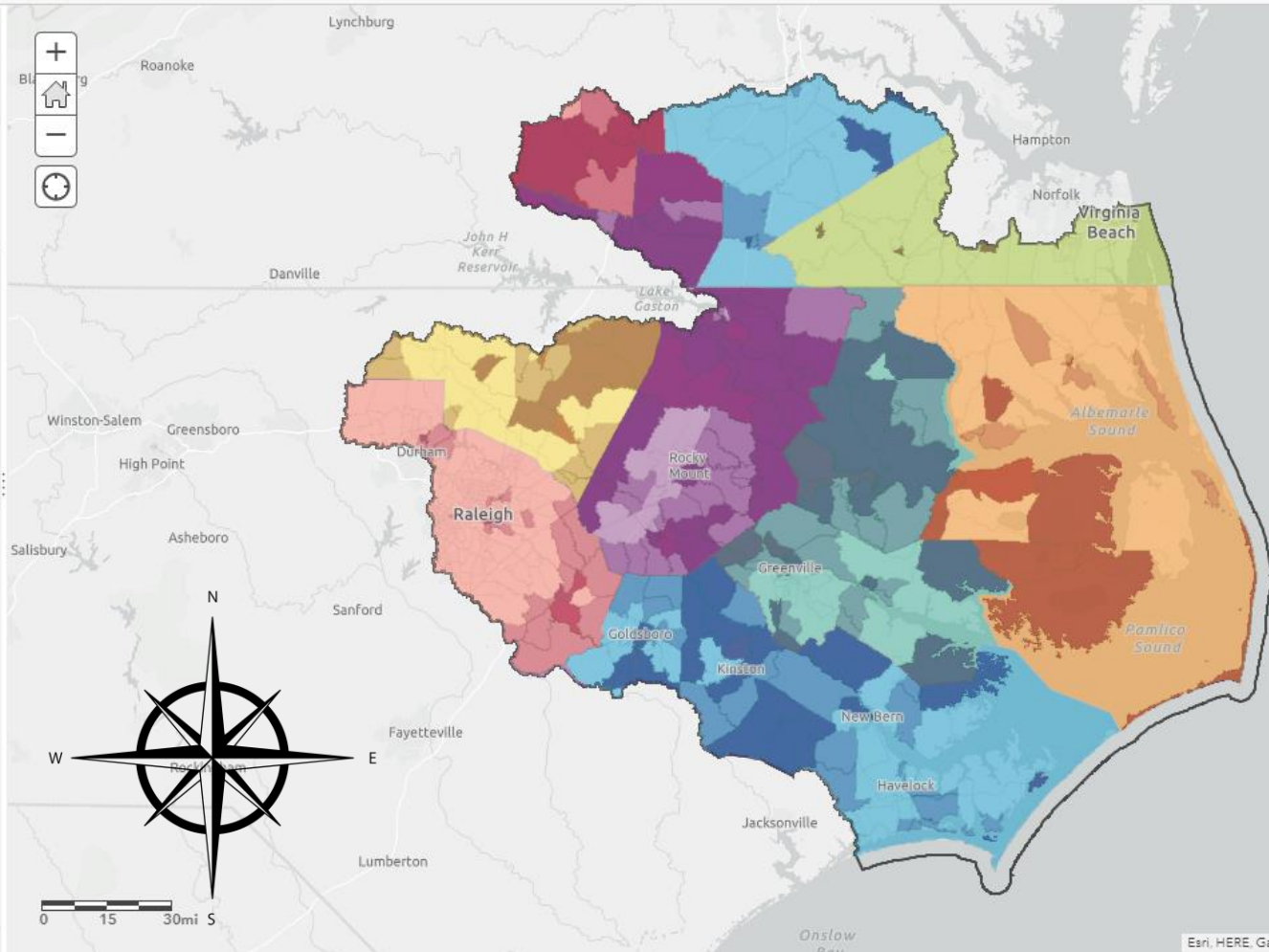
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Contents

- NC Coastal Area Management Act within AP watershed
- Title 1 schools within AP watershed
- 3 mile buffer around title 1 schools in AP watershed For Use
- NCDEQs Potentially Underserved Block Groups 2019 in AP watershed
- CDC Environmental Justice Index 2022 within AP watershed
- VA Planning District Committees (PDCs) within AP watershed
- NC Councils of Government (COGs) within AP watershed
- APNEP Projects (2012-2021) All Projects Trace downstream (early stages, not for use)
- All APNEP Projects (2012-2021) within 1 mile of Disadvantaged Communities v3
- APNEP Projects (2012-2021) - All Projects
- APNEP Projects (2012-2021) - Monitor
- APNEP Projects (2012-2021) - Restore



Moving Forward

- Decision Making
 - Using finer scales to locate need
 - Exploring whether APNEP projects are addressing need
- Engagement
- Educational Materials
 - Fact Sheets about Equity Strategy
 - Information and visualization on APNEP's BIL Long Term Strategy
- Website Content
 - Web App
 - Story Maps

Thank You For Listening

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- Melanie Williams
- Google

Please Reach out for any questions

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