DEQ - North Carolina Community Mapping System & Environmental Justice Tool

Thursday October 20, 2022

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Title VI and Environmental Justice Coordinator

Environmental Justice

NC DEQ Program

- **Environmental justice** is 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: NCDEQ's EJ Program establishment

- 2018: NCDEQ"S Secretary's Environmental Justice and Equity Advisory Board establishment

- 2019: NCDEQ's Community Mapping System and EJ Tool Development

Stakeholder Engagement and Development Process

- **Academic Focus Groups**
  - Spoke with GIS and EJ scholars from NC State, Chapel Hill, Duke, UNCG, NC Central, UNC Charlotte, and App State
- Calls with **other states** that have developed EJ mapping tools
  - Meetings with Pennsylvania, California and EPA
- **Public Community Meetings**
  - Wayne County
  - Forsyth County
  - Rutherford County
- **6 Small Community Organization Meetings/Calls**
- **Website and Public Survey**

Initial Development

Goals

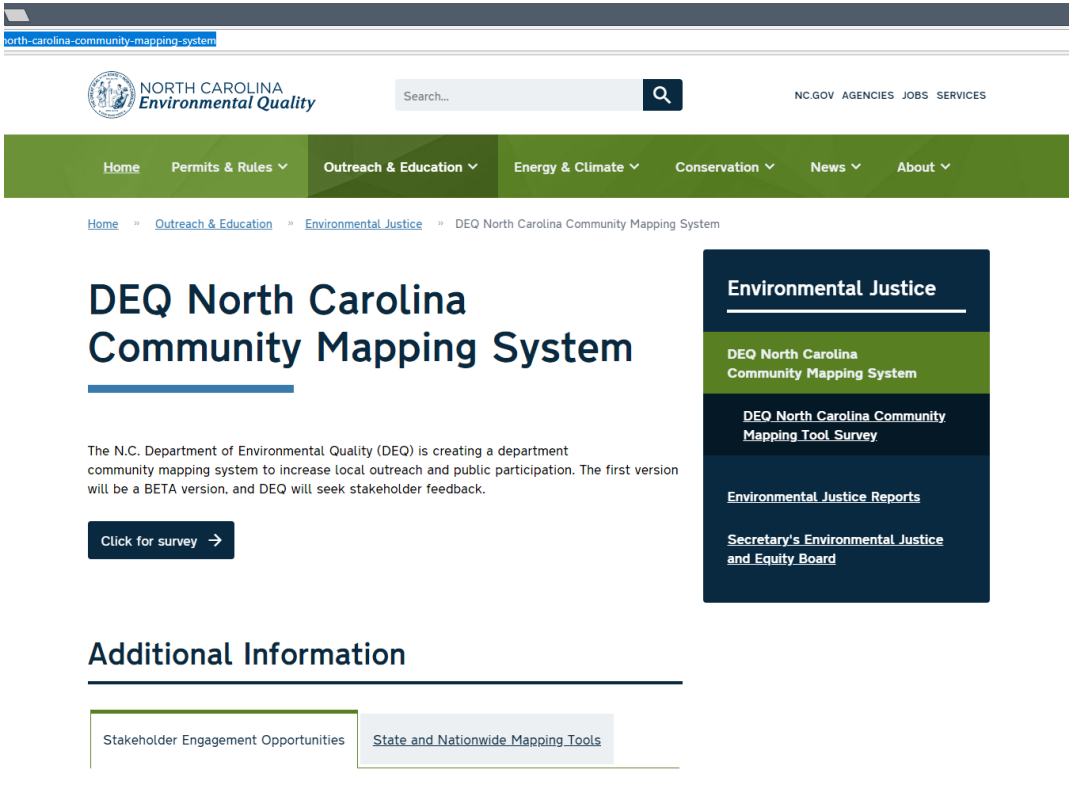
- Let the user define their community;
- Develop an interactive system;
- Ensure data are up-to-date;
- Show DEQ relevant data

Website

https://deq.nc.gov/outreach-education/environmental-justice/deq-north-carolina-community-mapping-system

Also on the Website:

- Other States
- Survey
- ‘How To’
- ‘Glossary of Terms’
- Background document



NORTH CAROLINA
Community Mapping System

Department of Environmental Quality

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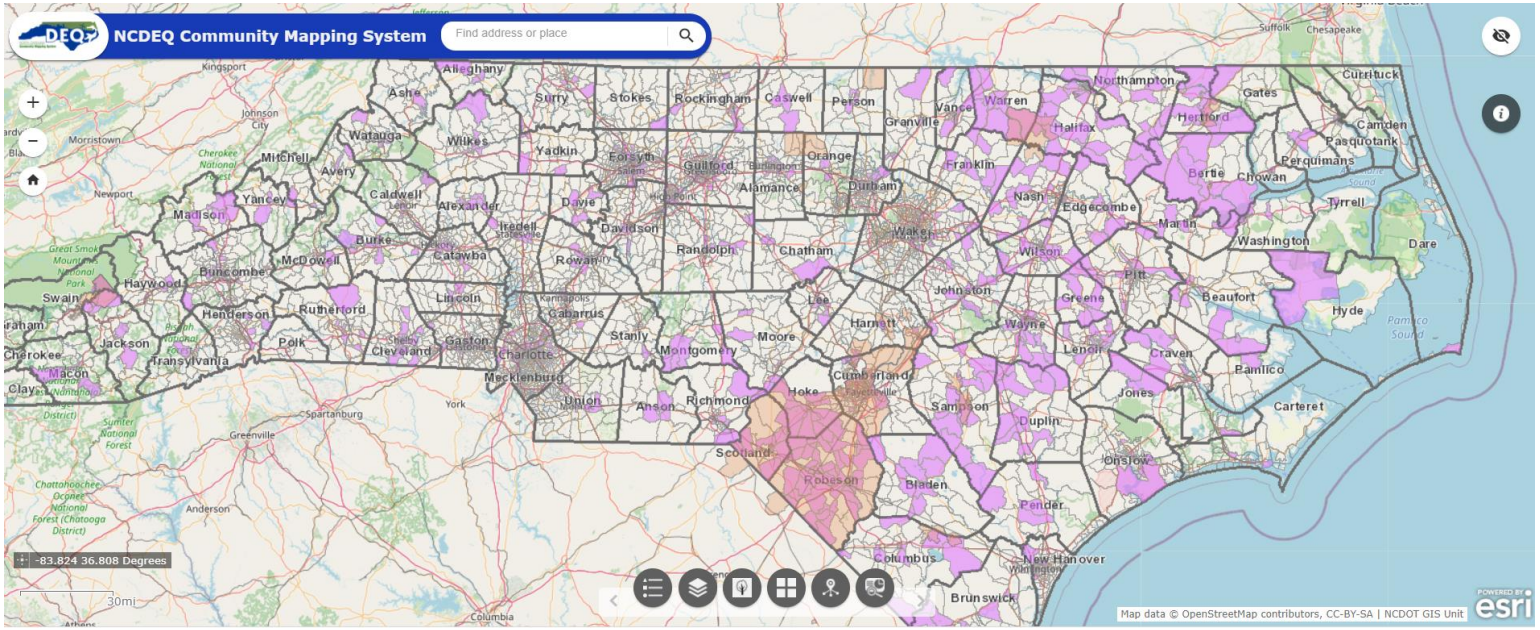
Community Mapping System



Racial/Ethnic composition:

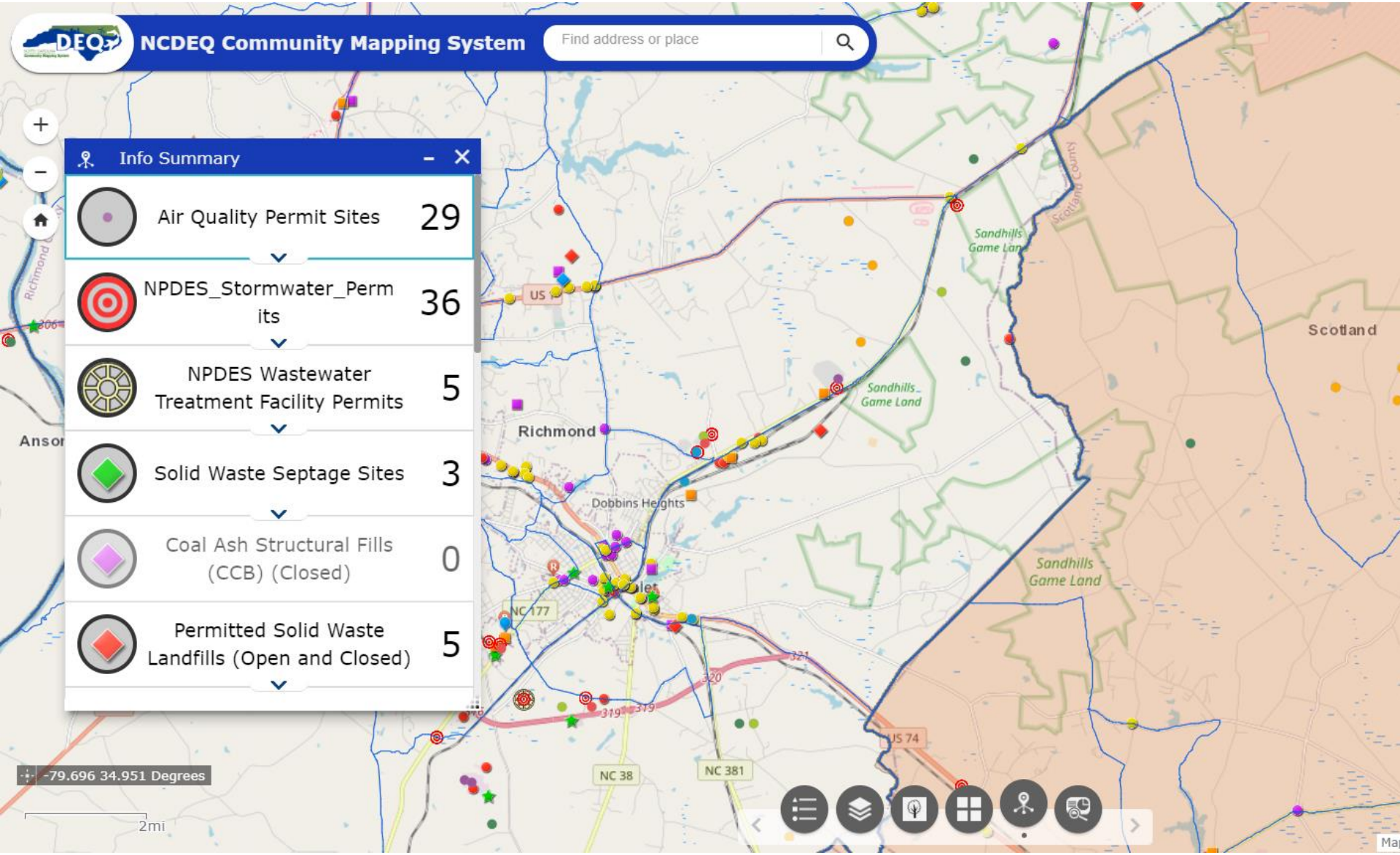
- Share of nonwhites and Hispanic or Latino (of any race) is over fifty percent OR
- Share of nonwhites and Hispanic or Latino (of any race) is at least ten percent higher than County or State share.

AND

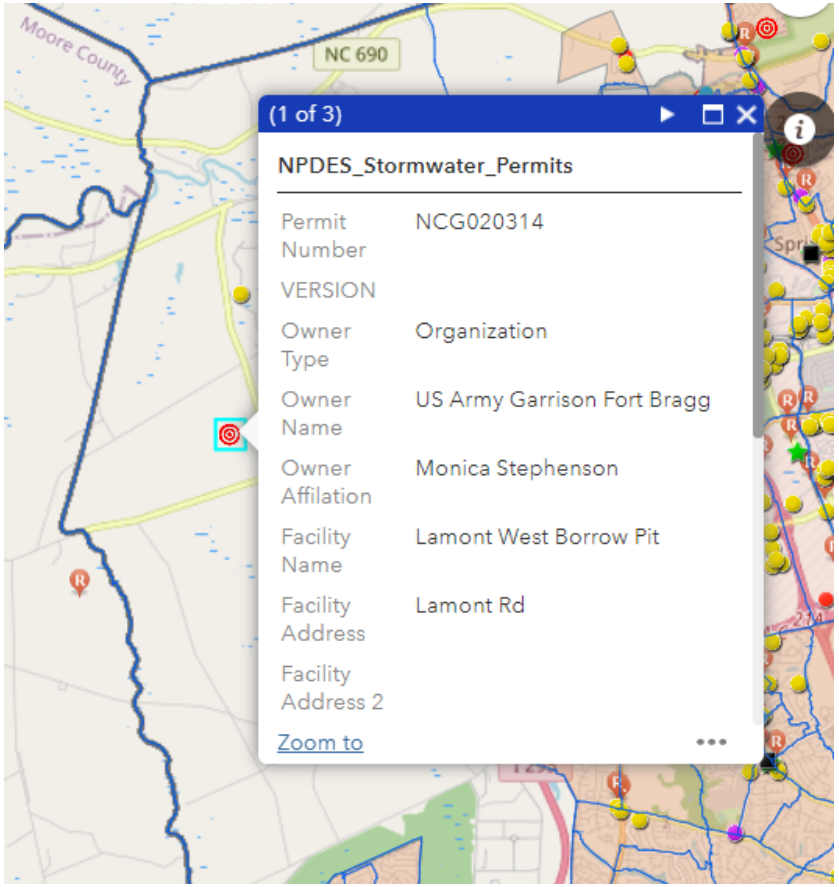
Poverty rate:

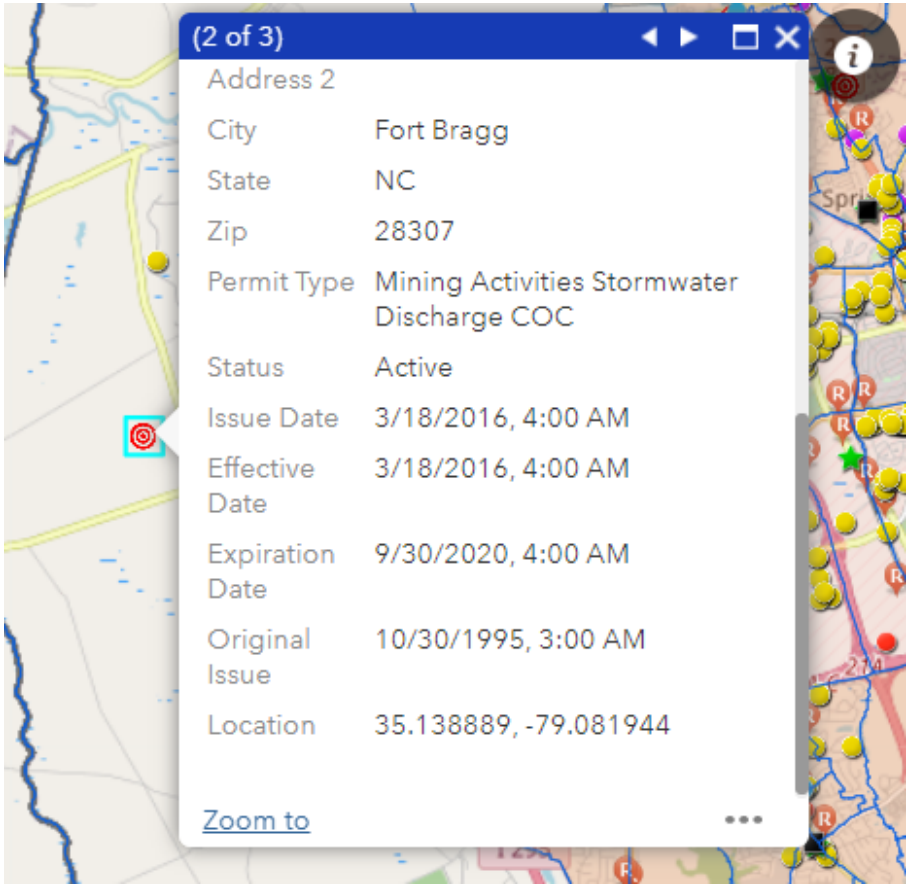
- Share of population experiencing poverty is over twenty percent AND
- Share of households in poverty is at least five percent higher than the County or State share.

Info Summary

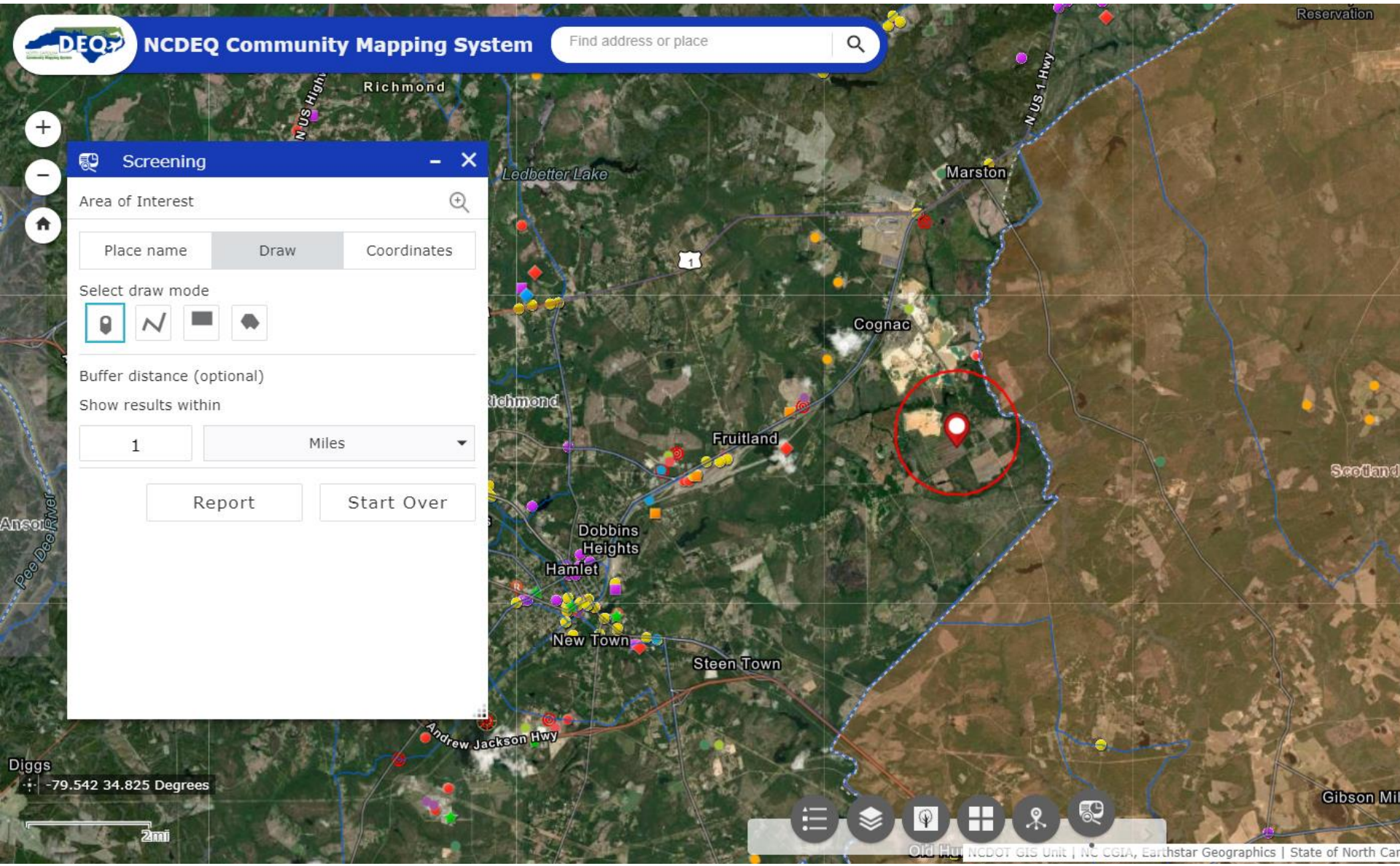


Permit Information

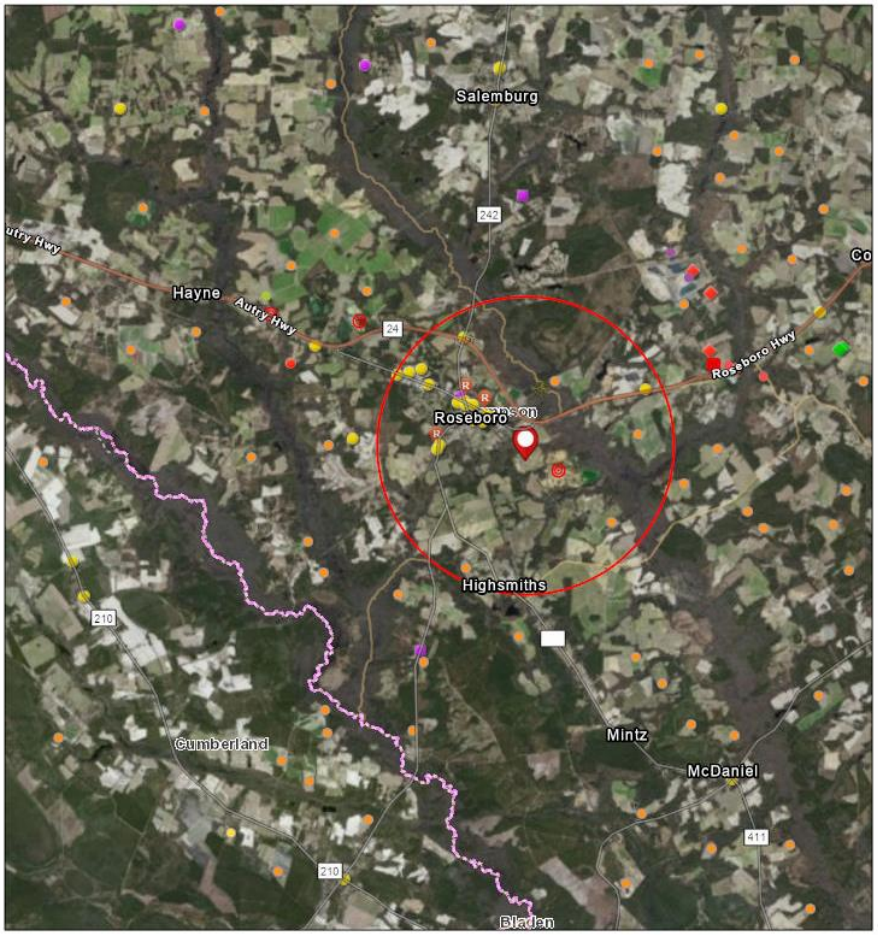




Screening Tool



Info Summary Report

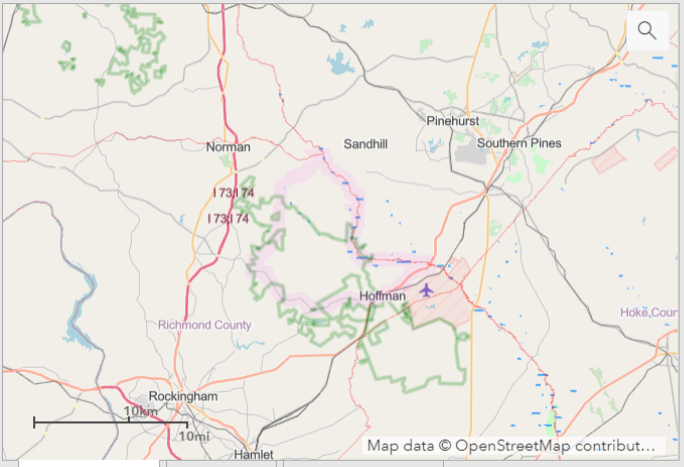


Summary

Name	Count
Animal Operation Permits	4
NPDES_Stormwater_Permits	1
NPDES Wastewater Treatment Facility Permits	1
Solid Waste Septage Sites	0
Coal Ash Structural Fills (CCB) (Closed)	0
Permitted Solid Waste Landfills (Open and Closed)	0
Land Clearing and Inert Debris (LCID) Notifications	0
Contaminated Dry-Cleaning Sites	0
Possible Dry-Cleaning Contamination	0
Inactive Hazardous Sites	0
Pre-Regulatory Landfill Sites	0
Brownfields Program Sites	0
Hazardous Waste Sites	0
Underground Storage Tank Incidents	18
Above Ground Storage Tank Incidents	1
Underground Storage Tank Active Facilities	4
Petroleum Contaminated Soil Remediation Permits	0
Land Use Restriction and/or Notices	3

EJ Tool

Initial Selection

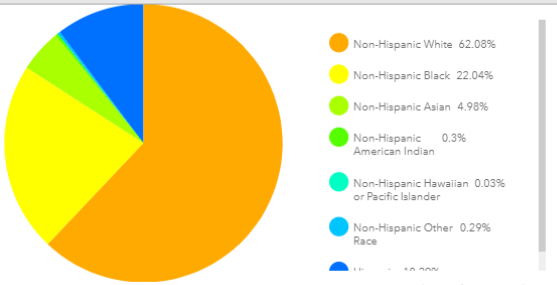


Community Map | Facility Map | Sensitive Receptors

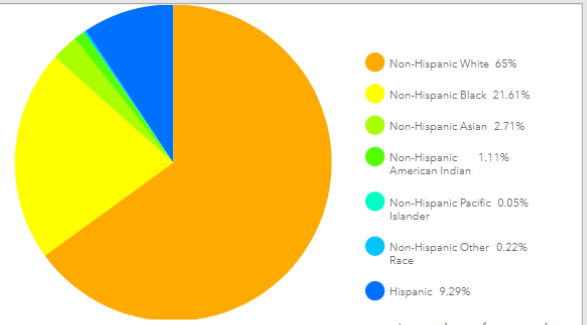
Environmental Justice Tool Maps
The three maps above can be toggled for additional information on demographics, facilities, and sensitive receptors (these are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants). Pop-ups on the map display the information. Click on a block group, or facility, sensitive receptor for more information.

Demographic and Health Data
The Demographic Dashboard displays information on the census block group level from the 2017 5-year estimate American Community Survey (ACS). The North Carolina Department of Health and Human Services (NCDHHS) provides health data at the county level, so data shown on the dashboard for health rates tell the overall county average, not the census block group average. The data shown in the graphics are an average of all the block groups (or counties for health data) included on the above map extent. Zoom in and out for information on a smaller or larger scale. More information can be found about how each demographic group is defined in the Glossary of Terms section.

Selected Area Demographics



Statewide Demographics



Health Dashboard

Average of Heart Disease Deaths
189.614
State Average 163.7
Last update: a few seconds ago
Heart Disease | Cancer | Diabetes

Average of PreTerm Birth Rate
10.543
State Average = 10
Last update: a few seconds ago
PreTerm Birth Rate | Infant Death Rate | Child Mortality Rate

Average Deaths caused by Stroke
46.343
State Average 43.1
Last update: a few seconds ago
Stroke | Cardiovascular Disease

Hospitalizations due to Asthma
16 (Ages 0-14) - State Average 28
61 (Total) - State Average 90
Last update: a few seconds ago
Asthma Hospitalizations | Number of Physicians

In a Greensboro community, a city park sits atop a toxic landfill

https://www.northcarolinahealthnews.org/2020/12/29/in-a-greensboro-community-a-city-park-sits-atop-a-toxic-landfill/

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Department of Environmental Quality

Questions

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