

EnviroAtlas and Brownfields

www.epa.gov/enviroatlas

EnviroAtlas

- EnviroAtlas provides over 300 map layers that cover the contiguous US
- Additional fine-scale data (100 map layers) are provided for selected communities across the US – covering almost 1200 cities and towns (as of April 2019)
- Available data include environmental, demographic, and health-related indicators.
- These data, combined with information like the location of Regulated Facilities including brownfields, Superfund, and RCRA Hazardous Waste Sites can provide a powerful screening mechanism for evaluating community assets and vulnerabilities.
- This set of maps focuses on one area wide planning grant in the City of Wilmington, DE to address brownfields clean-up and area revitalization using EnviroAtlas data. This is an illustrative example that could be applied elsewhere.

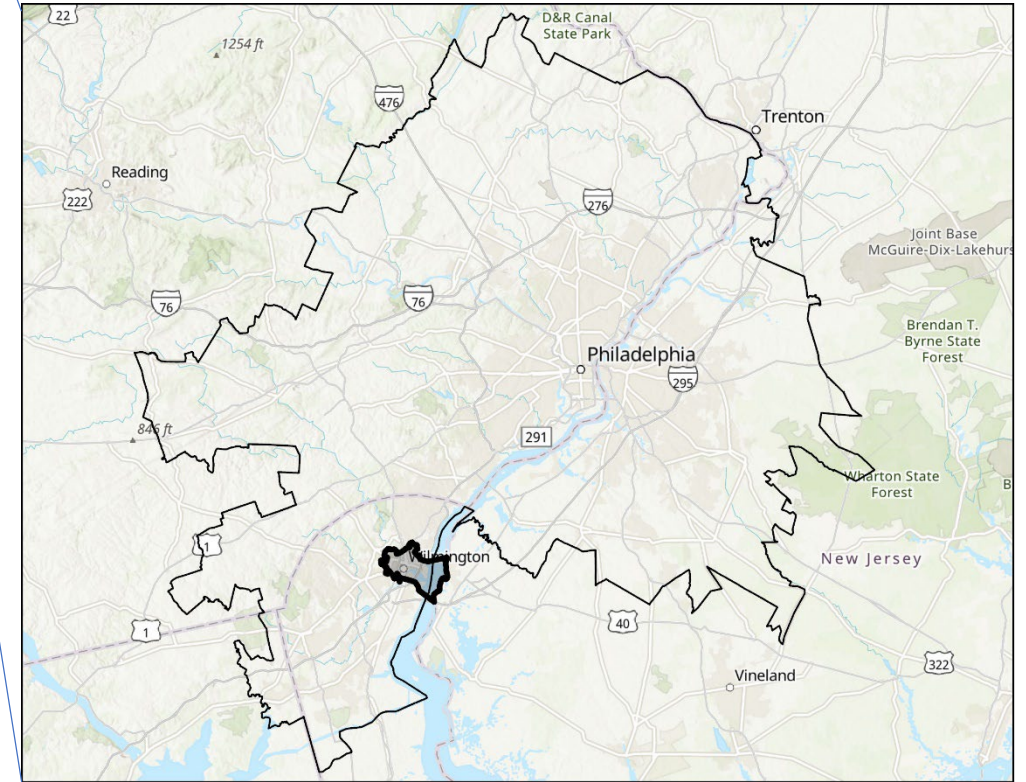
Brownfields and EnviroAtlas Community Data

City of Wilmington, DE
Brandywine Riverfront Northeast BF-AWP



● Brownfield Site (ACRES)

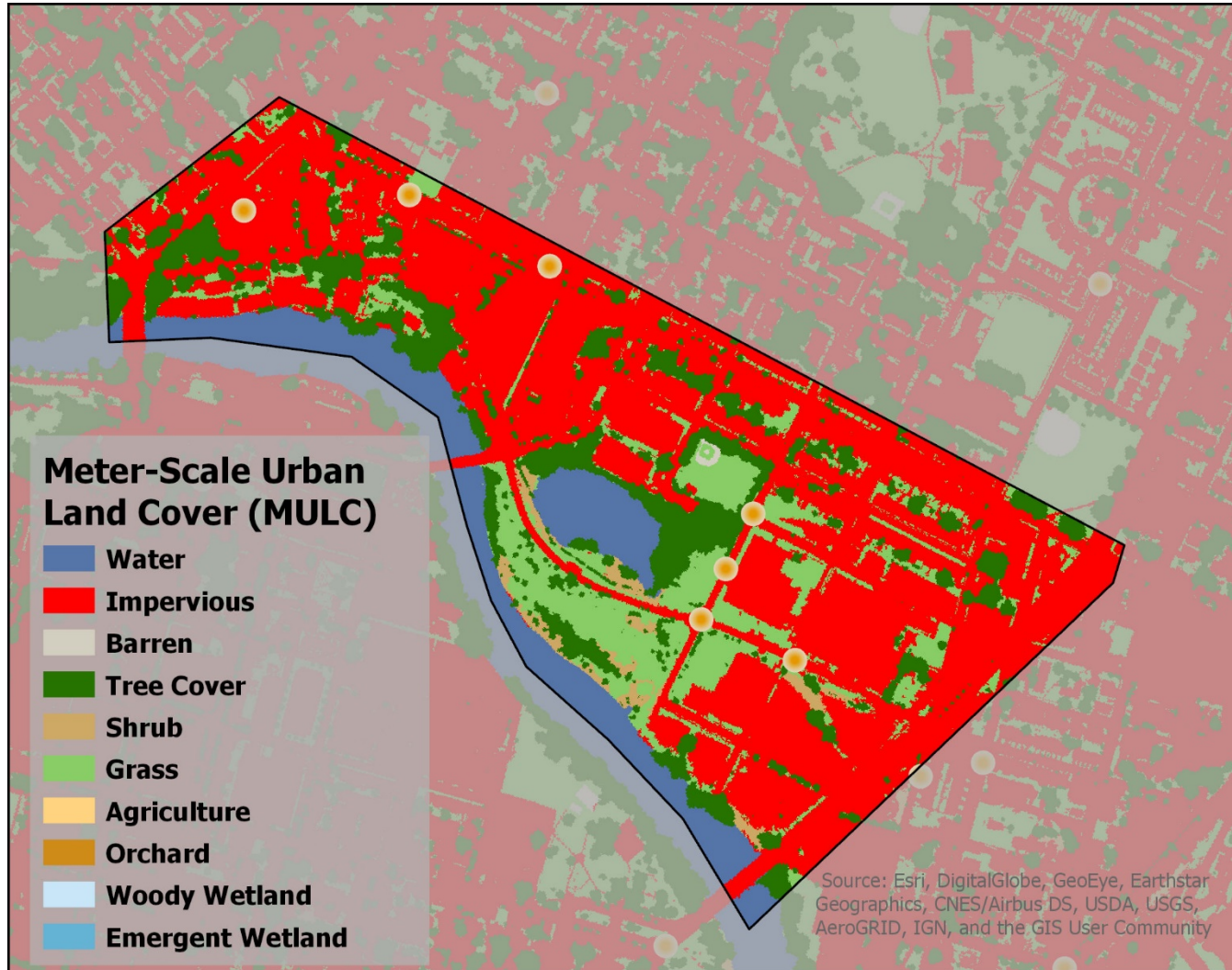
- Area-Wide Planning Grants (2017)
- **City of Wilmington, DE**



Philadelphia EnviroAtlas Community Area

This is an example of one area wide planning grant in the City of Wilmington, DE to address brownfields clean-up and area revitalization. The City of Wilmington is located within the Philadelphia EnviroAtlas community boundary.

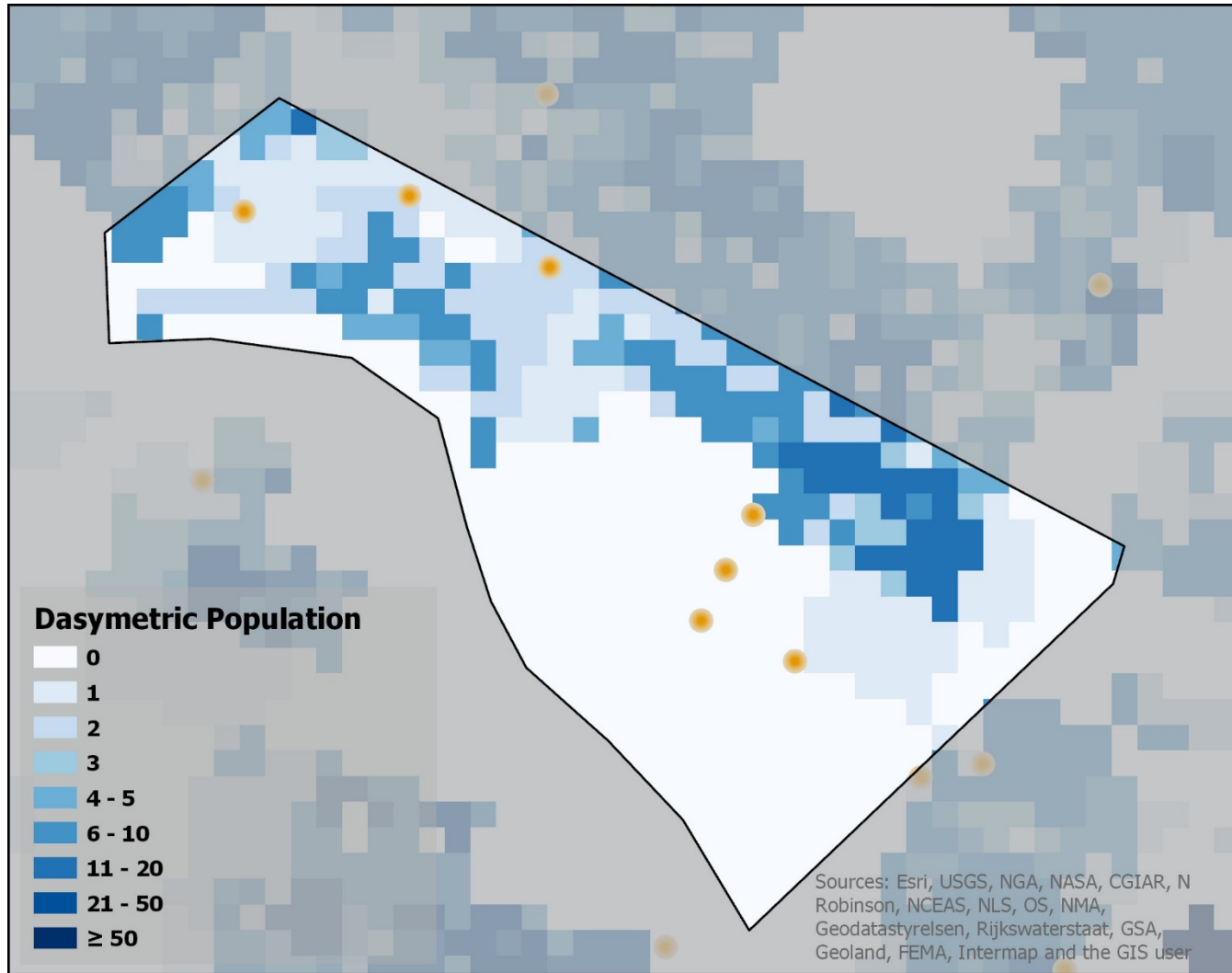
Brownfields and EnviroAtlas Community Data



- **Meter Scale Urban Land Cover (MULC)**
- Problem Accounting
 - Dasymetric population
 - Vulnerable populations
 - Infrastructure (Schools, Parks, Daycares)
 - FEMA floodplains
 - Urban heat islands
- Opportunities
 - Tree cover along walkable roads
 - Riparian buffers

This map shows the EnviroAtlas meter scale urban land cover data (MULC) for the area of interest, identifying natural assets as well as stressors like impervious surface.

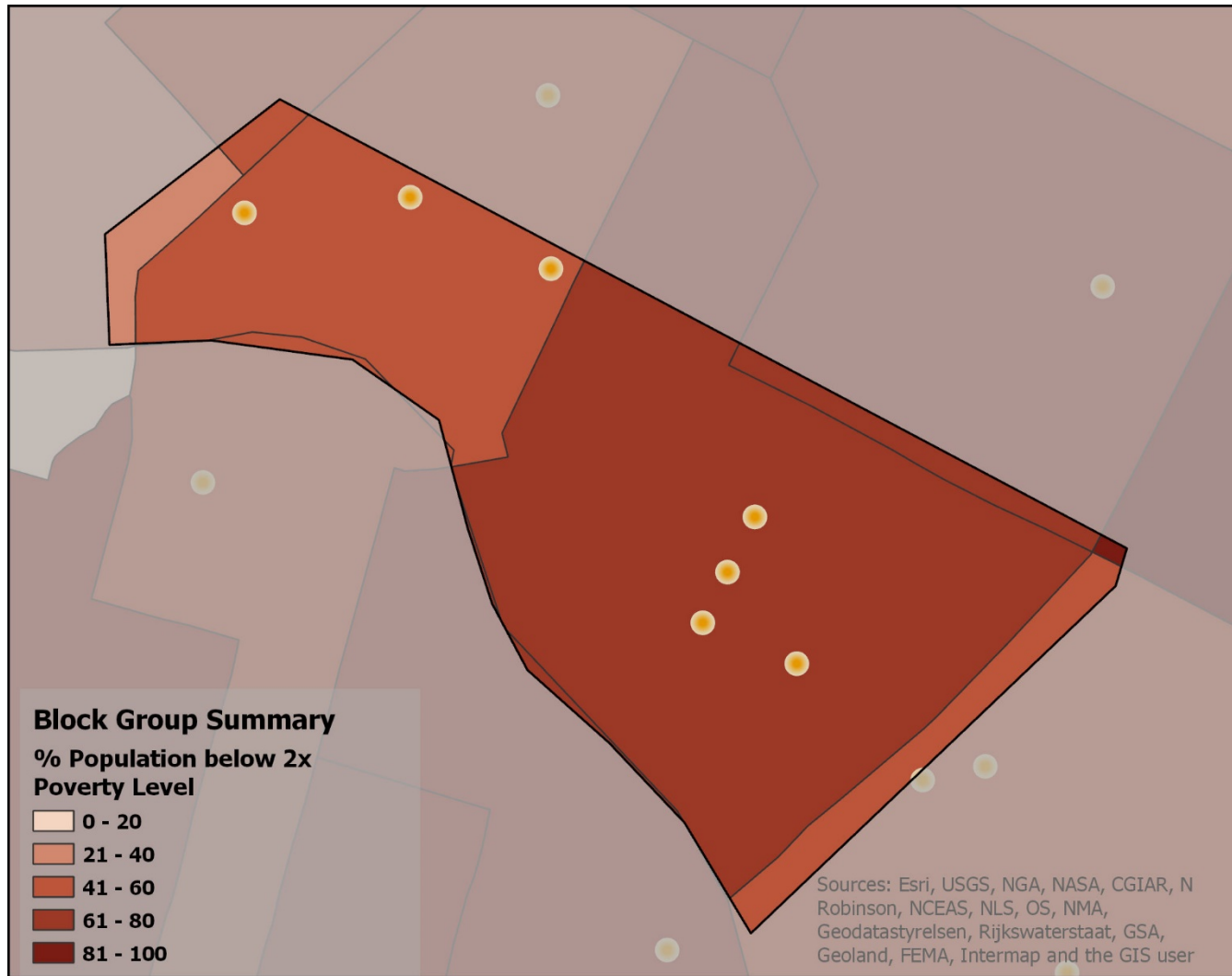
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This map illustrates the dasymetric allocation of population – or where the population is more likely to reside. The darker blue areas indicate more population. This map could be used for multiple planning efforts that need to take into account local population.

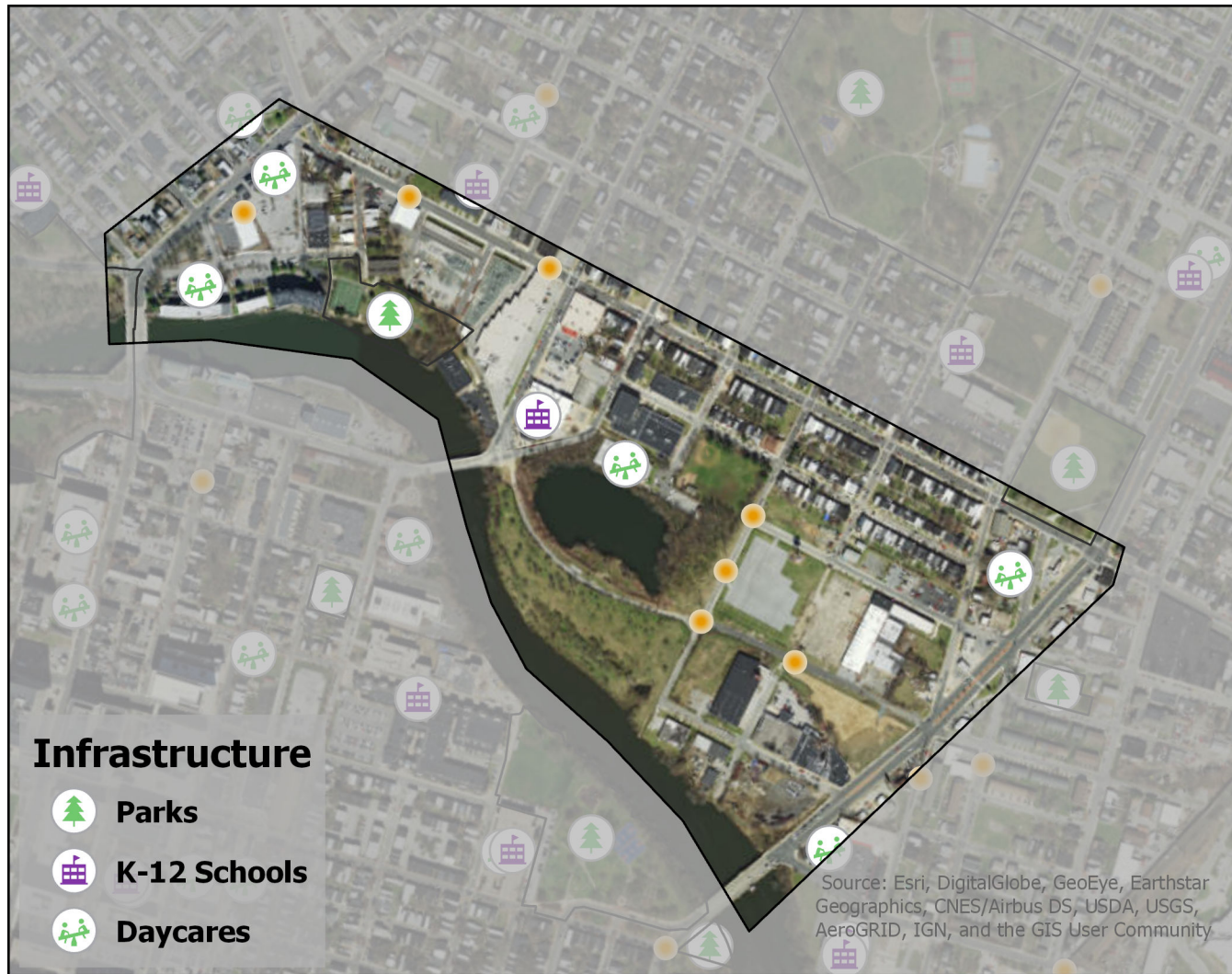
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This map shows the Percent of the Population below 2x the Poverty Level, identifying where this vulnerable population resides.

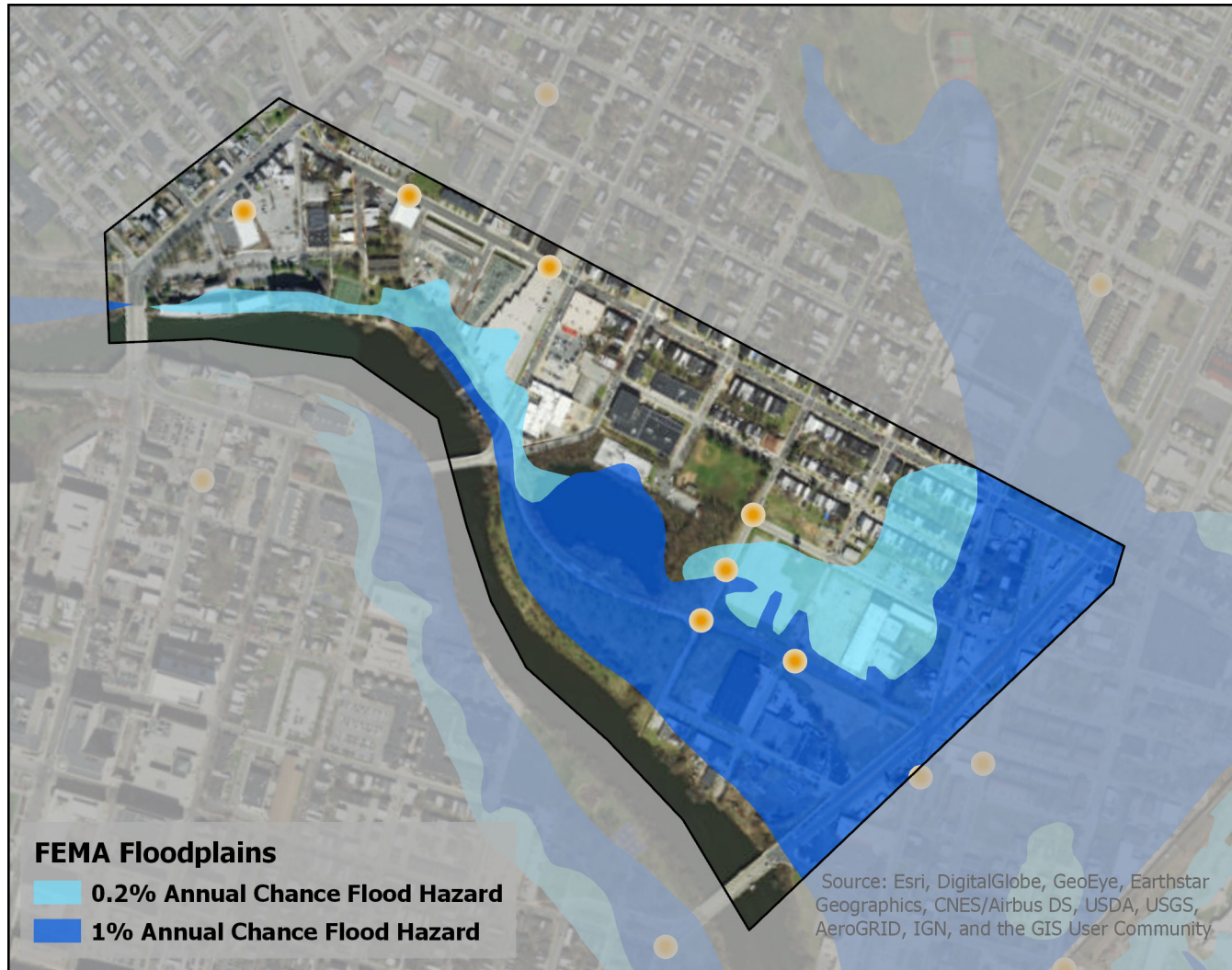
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This map shows local infrastructure, including parks, schools, and daycares in the area of interest. These points are not directly provided in EnviroAtlas, but are used in the creation of several EnviroAtlas datasets. Maps like these can be easily brought into EnviroAtlas via web services or directly uploaded and used in conjunction with EnviroAtlas data.

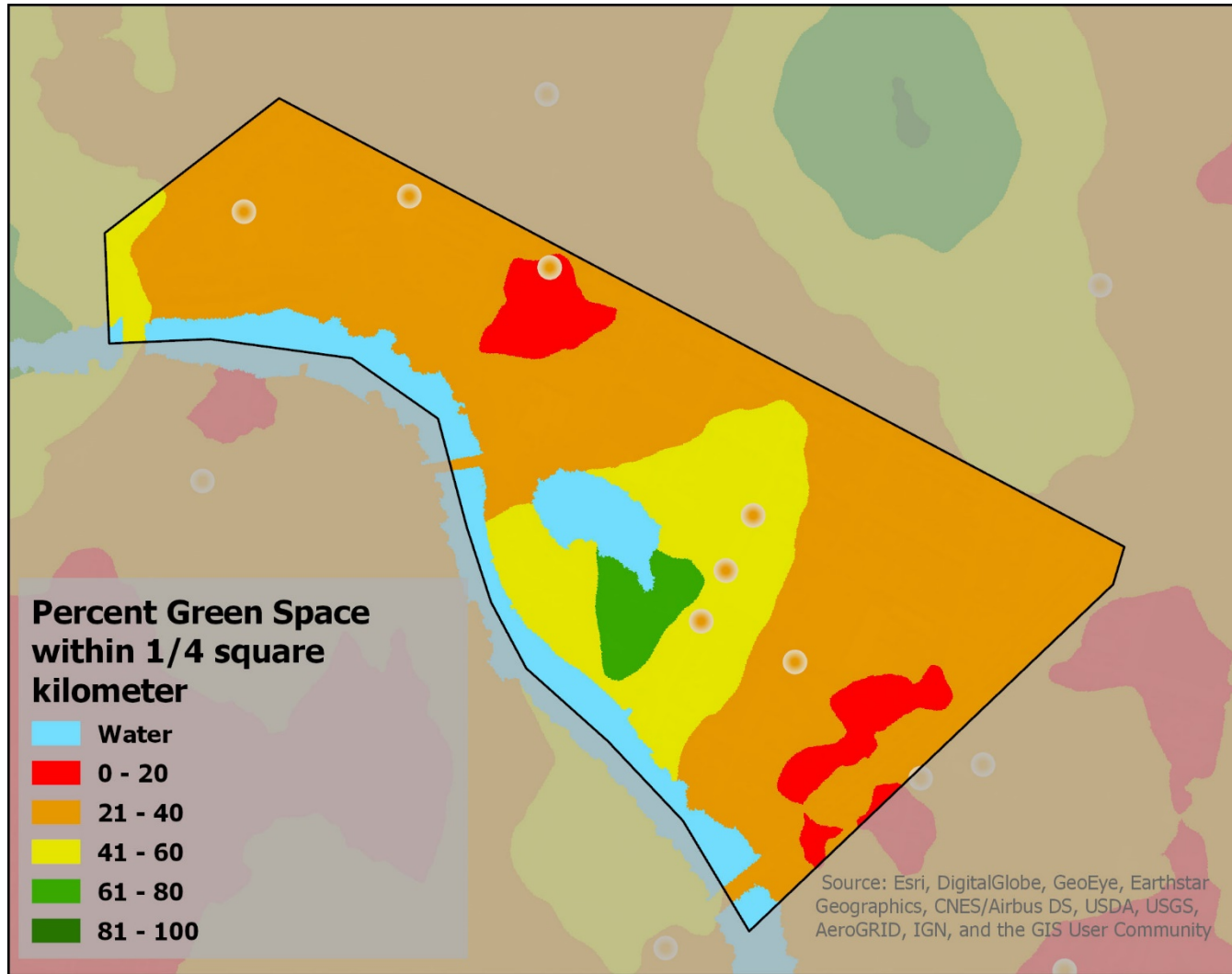
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This map shows the 0.2% and 1% annual chance flood hazard areas in the city of Wilmington, DE. These data are provided by FEMA. EnviroAtlas includes datasets that incorporate and add to FEMA available data, including: Estimated Floodplains for the CONUS (National), Impervious surface in 0.2% and 1% Annual Chance Flood Hazard area (community), Land area in 0.2% and 1% Annual Chance Flood Hazard area (community), Population in 0.2% and 1% Annual Chance Flood Hazard area (community).

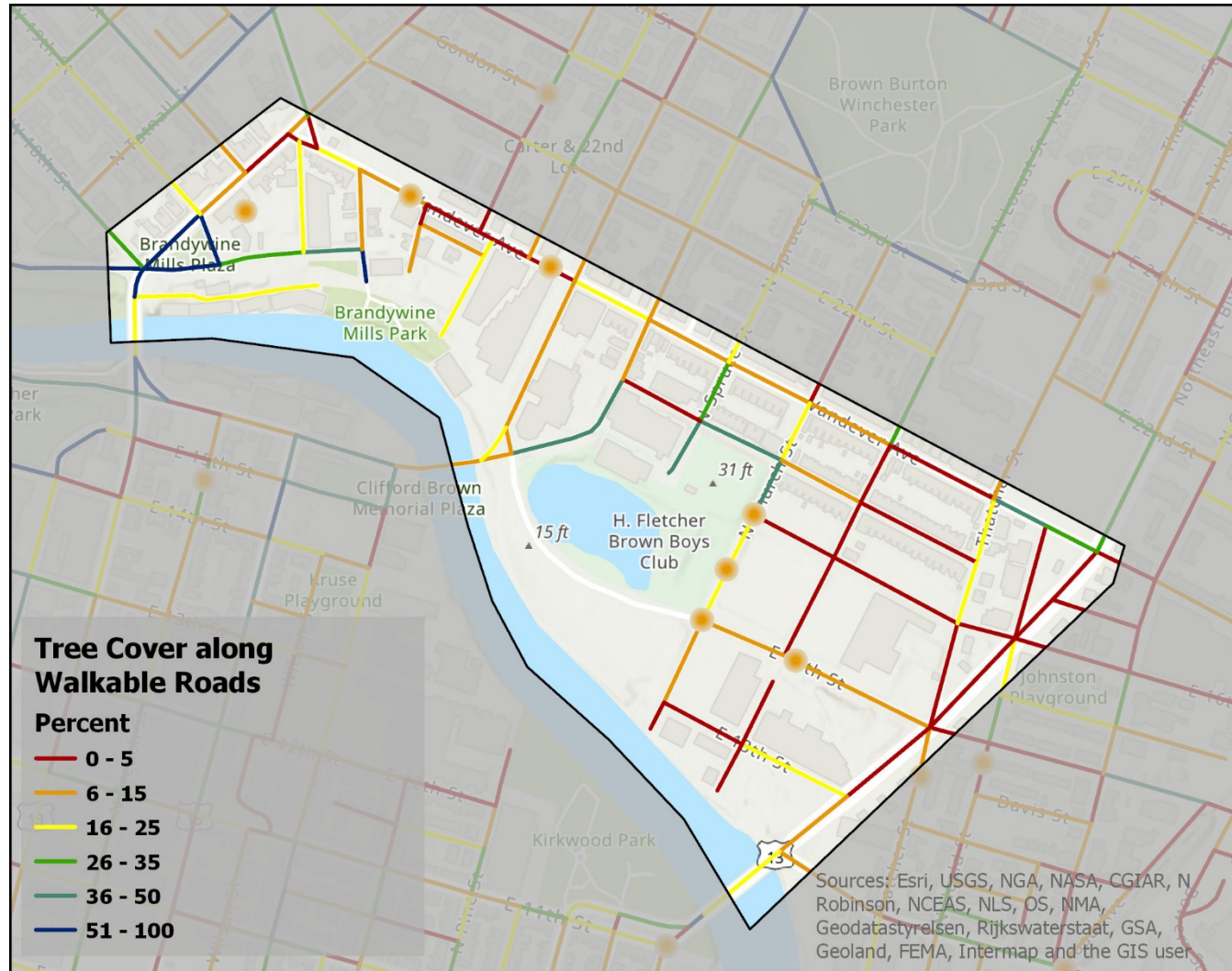
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This map shows the Percent Green Space within $\frac{1}{4}$ Square Kilometer, identifying areas in red that may be potential hotspots for the urban heat island effect.

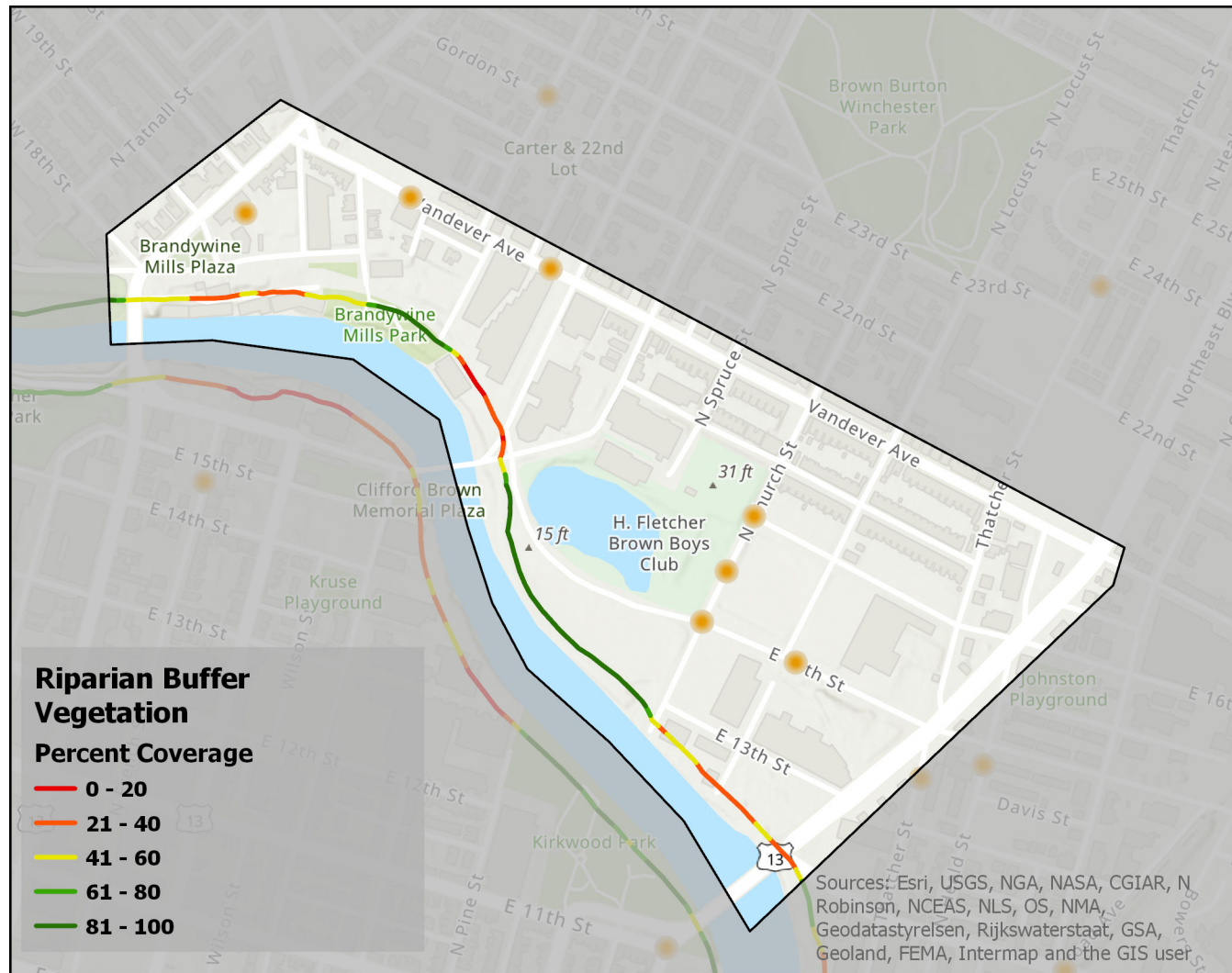
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The tree cover along walkable roads layer illustrates one way to revitalize a reclaimed brownfield site to improve livability and well-being.

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The riparian buffer map shows areas where vegetation may be increased to add buffering capability to waterways. This is another targeted way to add greenery in a community to address multiple benefits.