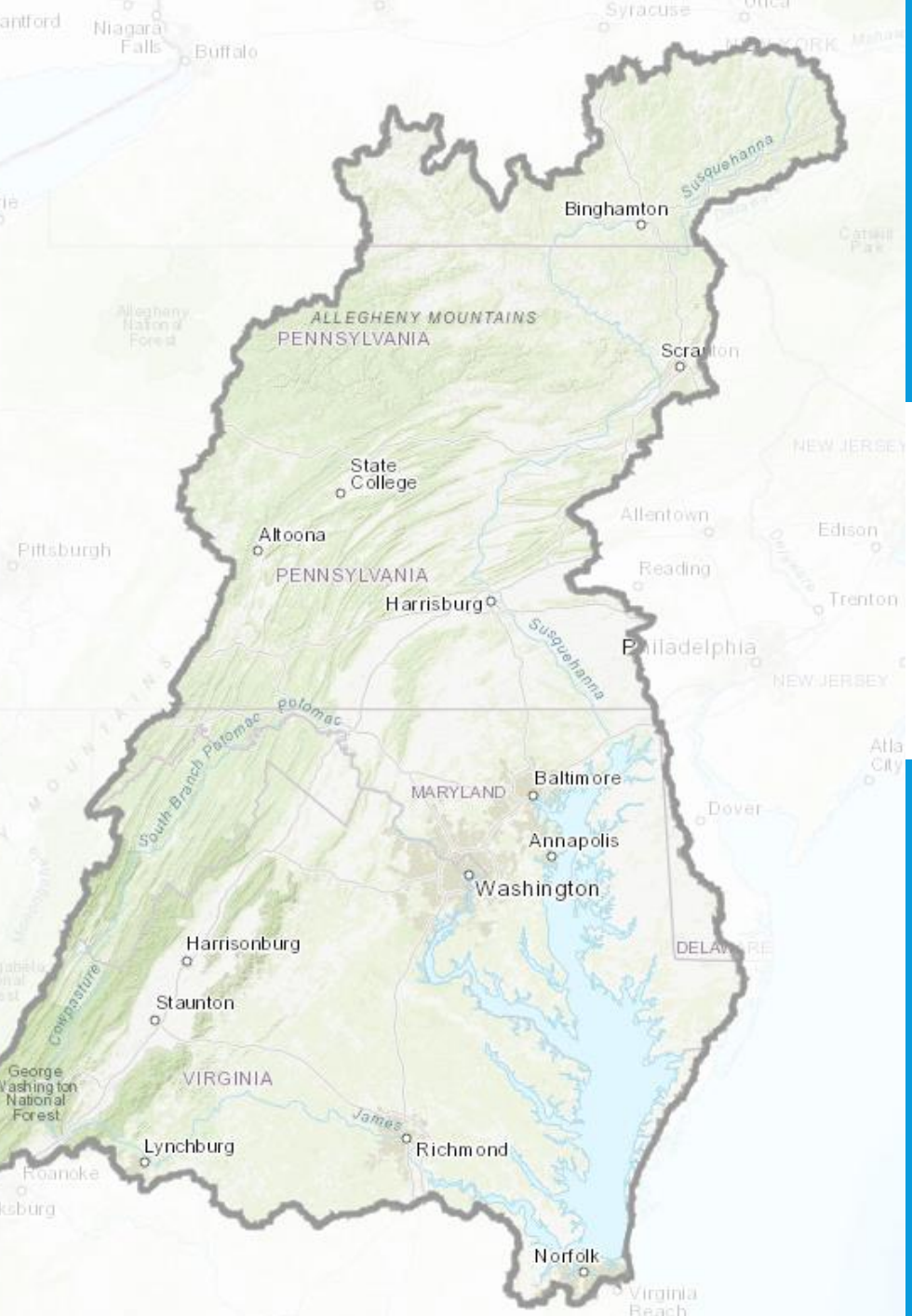


CHESAPEAKE EJ SCREEN

Chesapeake Bay Program - Diversity Workgroup

John Wolf

November 21, 2019

BACKGROUND

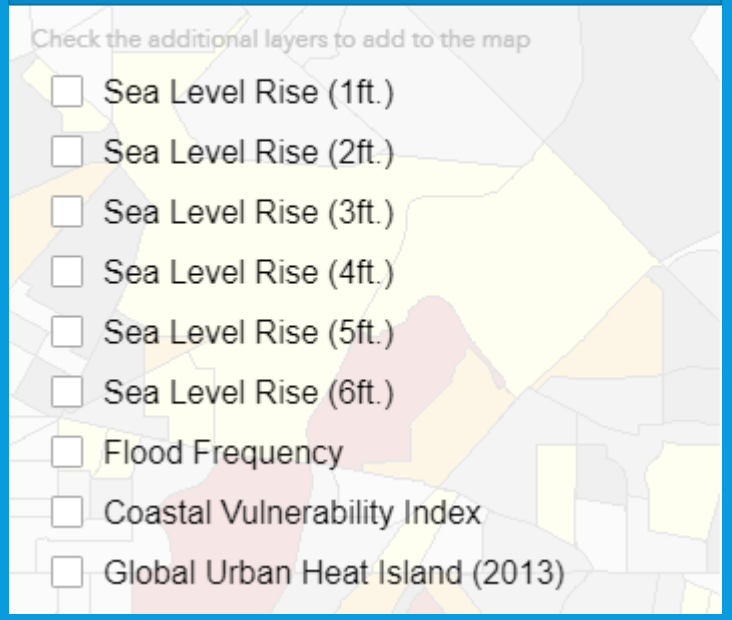
- FY 16 GIT Funded Project
- National EJ Screen Tool (EPA) customized to Bay Watershed
- Goal was to relate demographics and environmental conditions to to selected Watershed Agreement outcomes
- Designed as a pilot for expansion, with initial focus on subset of Outcomes
- One of first efforts to explicitly incorporate Cross-GIT interest into an Outcome decision support tool/framework

APPROACH

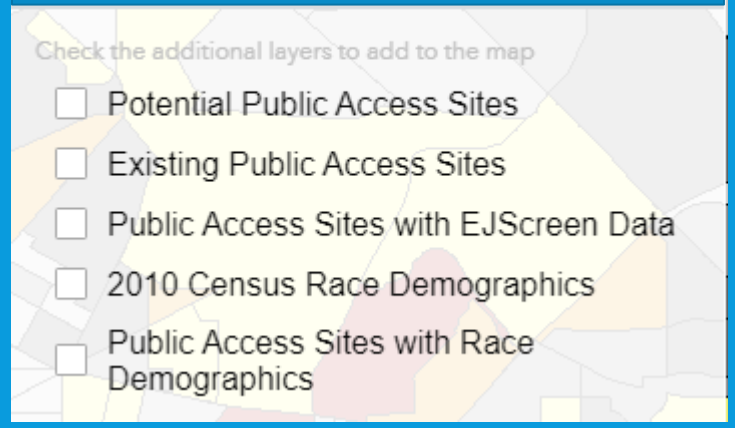
- Collaboration among Diversity Staffer and Coordinators/Staffers of…
  - Climate Resiliency Workgroup
  - Public Access Planning Team
  - Toxic Contaminants Workgroup
- Identified use cases/sample management questions
- Built on services and code of National EJ Screen tool
- GIT Funding used to hire contractor with expertise in geospatial web development

Focus Workgroup Data

Climate Resiliency



Public Access



Toxic Contaminants

SAMPLE MANAGEMENT QUESTIONS

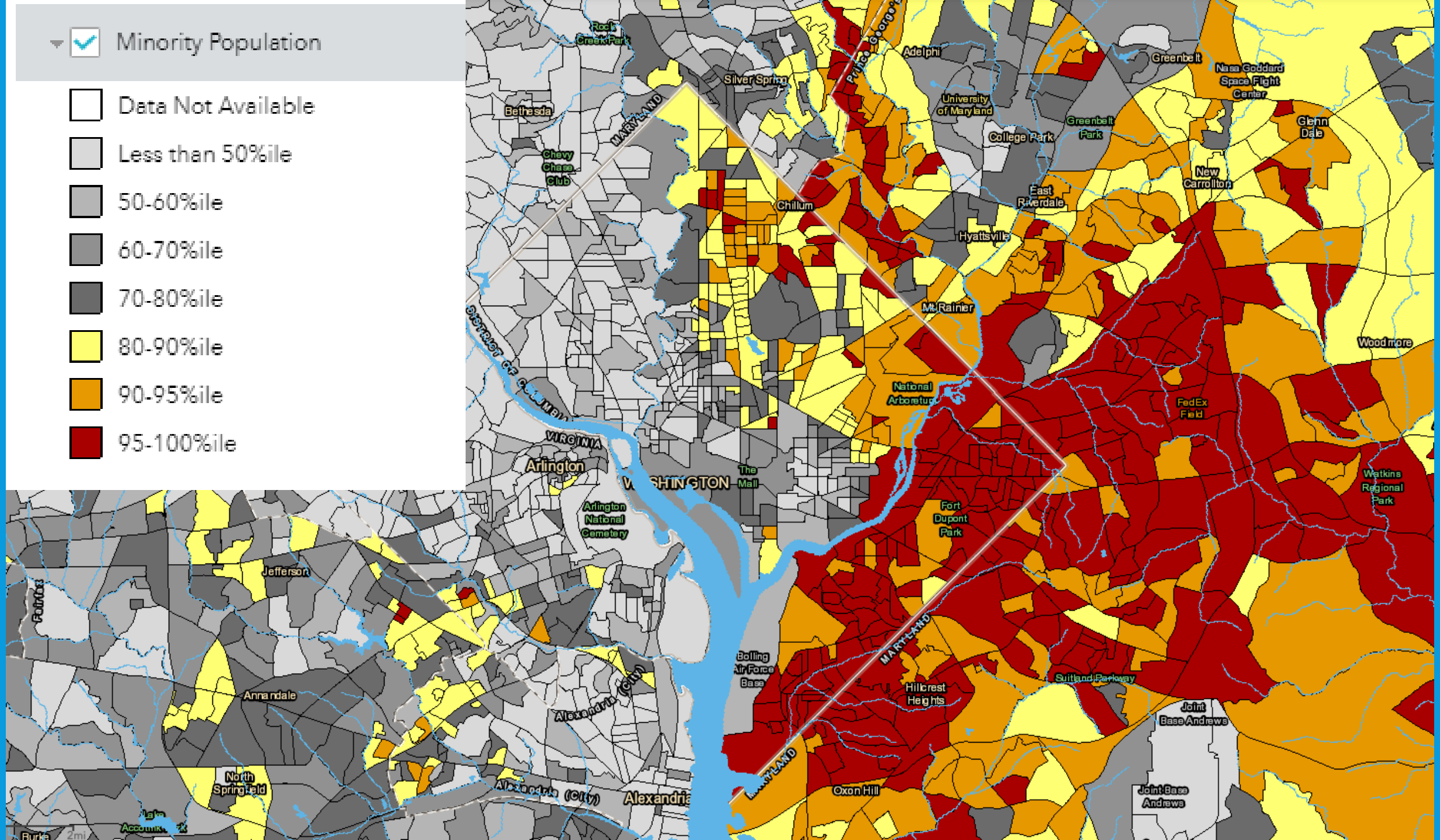
- What is the proximity of *minority populations* to *impaired waterways*?

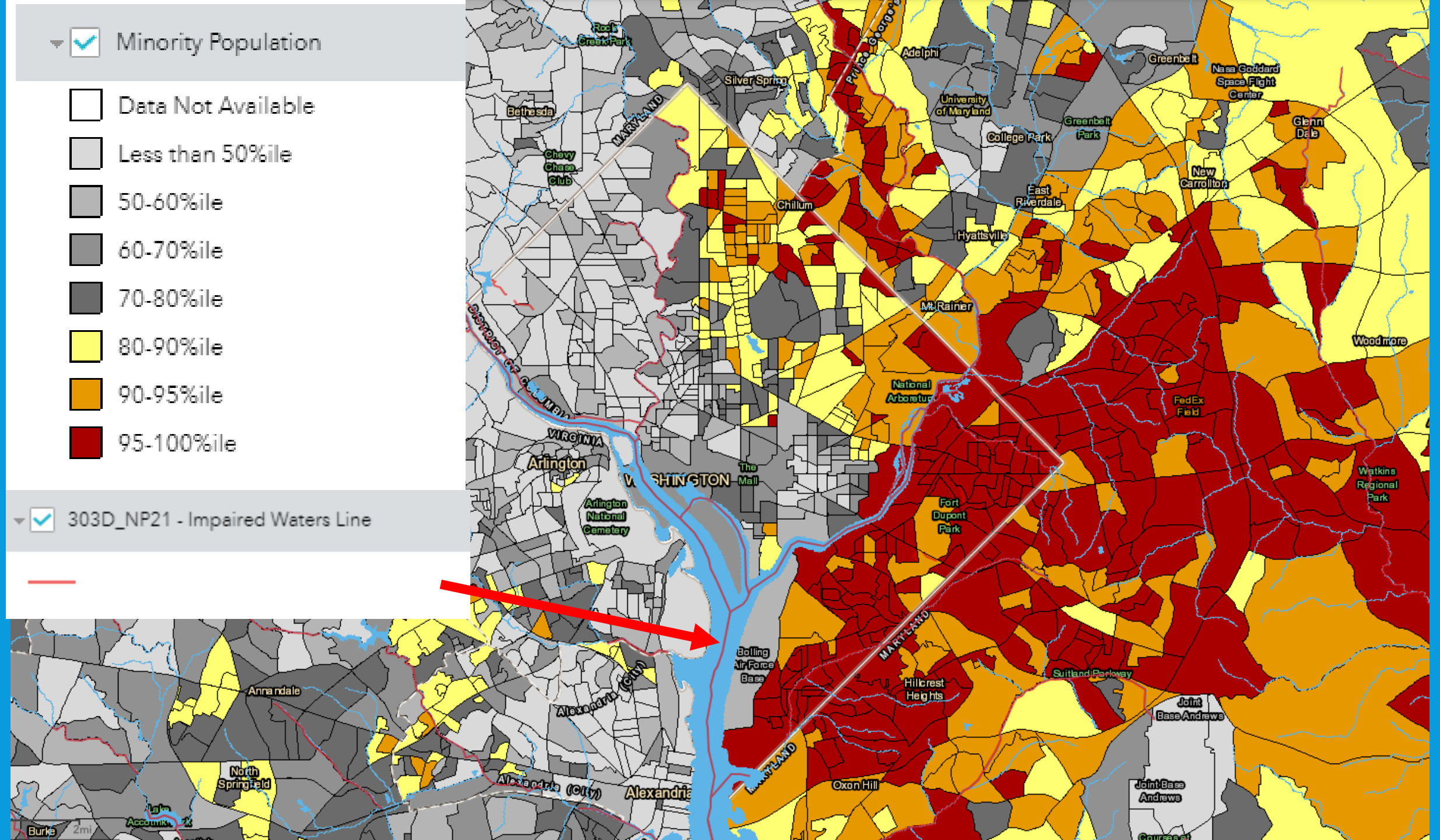
SAMPLE MANAGEMENT QUESTIONS

- What is the proximity of *minority populations* to *impaired waterways*?

National EJ Screen

Chesapeake Bay Data


Minority Population
Data Not Available
Less than 50%ile
50-60%ile
60-70%ile
70-80%ile
80-90%ile
90-95%ile
95-100%ile
Rock Creek Park
Silver Spring
Bethesda
Chevy Chase Club
MARYLAND
Adelphi
Greenbelt
Nasa Goddard Space Flight Center
University of Maryland
College Park
Greenbelt Park
Glenn Dale
New Carrollton
East Riverdale
Chillum
Hyattsville
Mt Rainier
Woodmore
National Arboretum
FedEx Field
VIRGINIA
Arlington
The Mall
Arlington National Cemetery
Fort Dupont Park
Watkins Regional Park
Jefferson
Annandale
Alexandria (City)
Bolling Air Force Base
Hillcrest Heights
Suitland Parkway
Joint Base Andrews
North Springfield
Oxon Hill
Alexandria
Burke
2mi


Minority Population
Data Not Available
Less than 50%ile
50-60%ile
60-70%ile
70-80%ile
80-90%ile
90-95%ile
95-100%ile
303D_NP21 - Impaired Waters Line
Rock Creek Park
Silver Spring
Bethesda
Chevy Chase Club
MARYLAND
Adelphi
Prince George's
Greenbelt
Nasa Goddard Space Flight Center
University of Maryland
College Park
Greenbelt Park
Glenn Dale
New Carrollton
East Riverdale
Chillum
Hyattsville
Mt. Rainier
Woodmore
National Arboretum
FedEx Field
VIRGINIA
Arlington
The Mall
Arlington National Cemetery
Fort Dupont Park
Watkins Regional Park
Bolling Air Force Base
Hillcrest Heights
Suitland Parkway
Joint Base Andrews
Oxon Hill
Annandale
North Springfield
Alexandria (City)
Alexandria
Burke
2mi

SAMPLE MANAGEMENT QUESTIONS

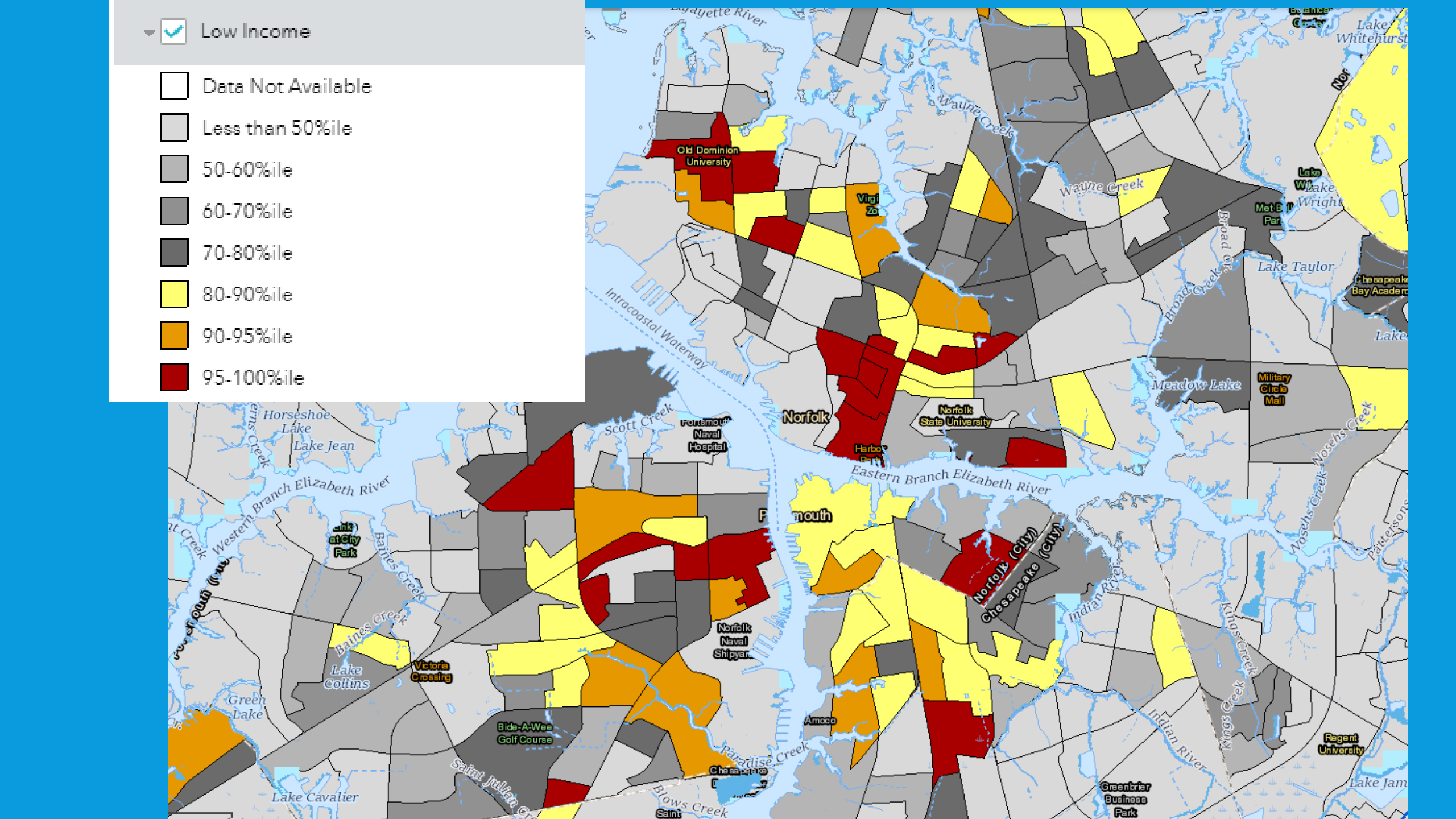
- What is the threat of *sea level rise or storm surge* to *low income populations*?

SAMPLE MANAGEMENT QUESTIONS

Chesapeake Bay Data

- What is the threat of *sea level rise or storm surge* to *low income populations*?

National EJ Screen


Low Income
Data Not Available
Less than 50%ile
50-60%ile
60-70%ile
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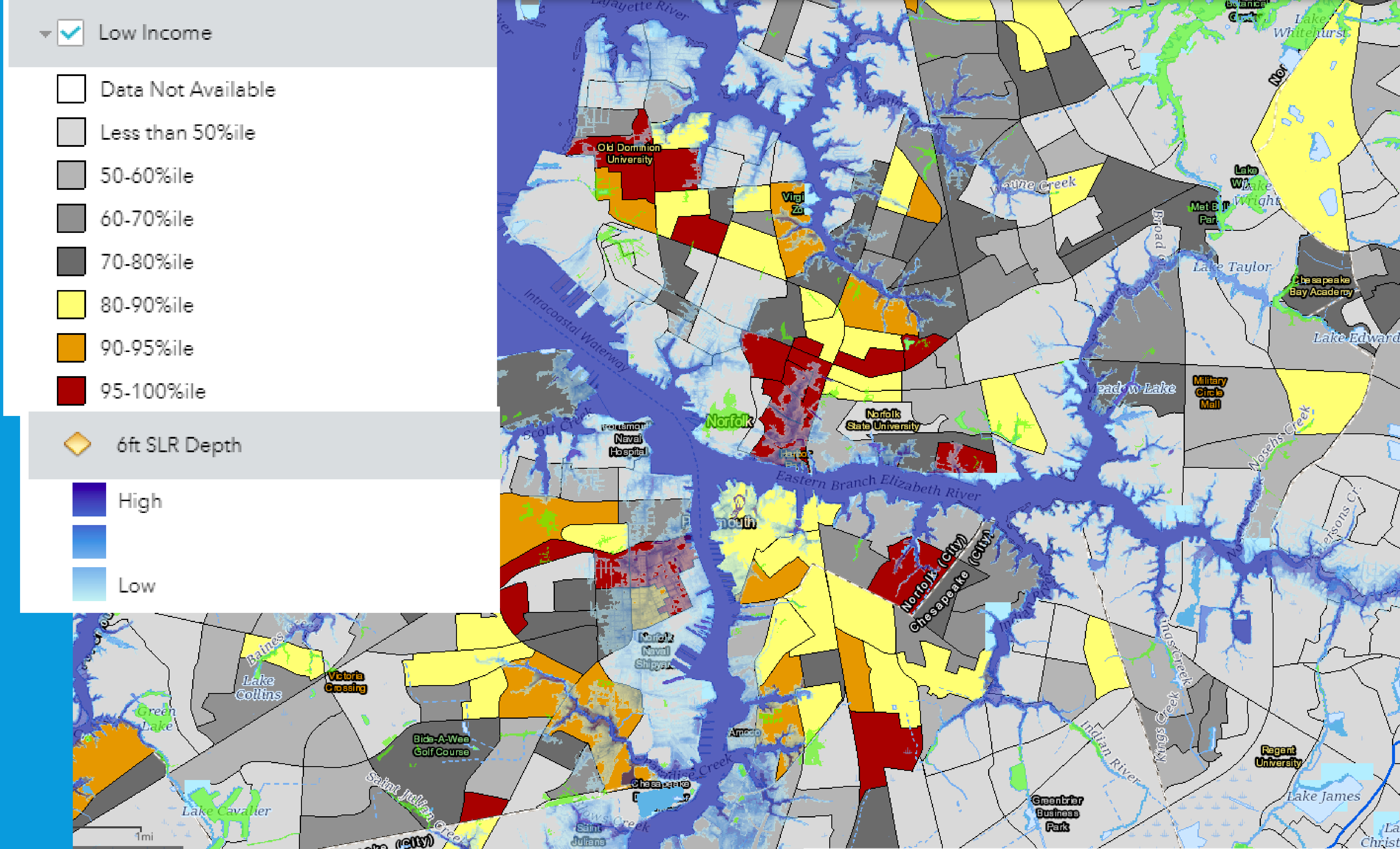
80-90%ile
90-95%ile
95-100%ile
Old Dominion University
Norfolk
Norfolk State University
Military Circle Mall
Meadow Lake
Lake Taylor
Waune Creek
Broad Creek
Intracoastal Waterway
Eastern Branch Elizabeth River
Western Branch Elizabeth River
Scott Creek
Nosehs Creek
Indian River
Kings Creek
Paradise Creek
Blows Creek
Baines Creek
Lake Collins
Lake Cavalier
Green Lake
Lake Jean
Horseshoe Lake
Portsmouth Naval Hospital
Norfolk Naval Shipyard
Victoria Crossing
Bide-A-Wee Golf Course
Amoco
Greenbrier Business Park
Regent University
Chesapeake Bay Academy
Lake Whitehurst
Lake Wright
Norfolk (City)
Chesapeake (City)


Low Income
Data Not Available
Less than 50%ile
50-60%ile
60-70%ile
70-80%ile
80-90%ile
90-95%ile
95-100%ile
6ft SLR Depth
High
Low
Lafayette River
Old Dominion University
Intracoastal Waterway
Norfolk
Norfolk State University
Portsmouth Naval Hospital
Eastern Branch Elizabeth River
Lake Taylor
Chesapeake Bay Academy
Lake Edward
Military Circle Mall
Meadow Lake
Norfolk Naval Shipyard
Lake Collins
Victoria Crossing
Green Lake
Bide-A-Wee Golf Course
Lake Cavalier
Saint Julian Creek
Paradise Creek
Indian River
Kings Creek
Regent University
Greenbrier Business Park
Lake James
Norfolk (City)
Chesapeake (City)
Lake Whitehurst
1mi

SAMPLE MANAGEMENT QUESTIONS

- What is the proximity of *public water access sites* to *linguistically isolated populations*?

- Where are new sites being developed relative to these populations?

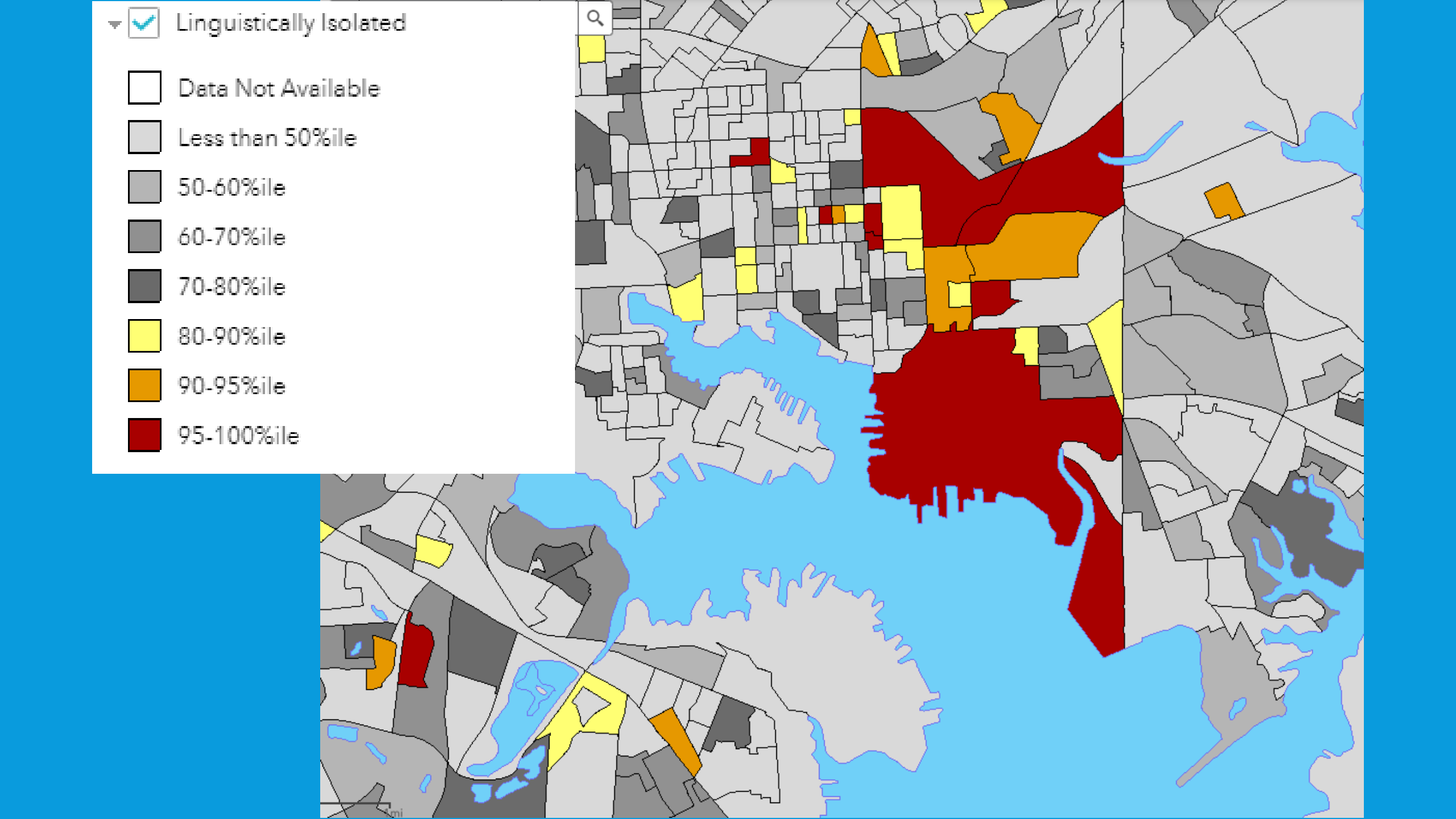
SAMPLE MANAGEMENT QUESTIONS

Chesapeake Bay Data

- What is the proximity of *public water access sites* to *linguistically isolated populations*?

National EJ Screen

- Where are new sites being developed relative to these populations?


Linguistically Isolated
Data Not Available
Less than 50%ile
50-60%ile
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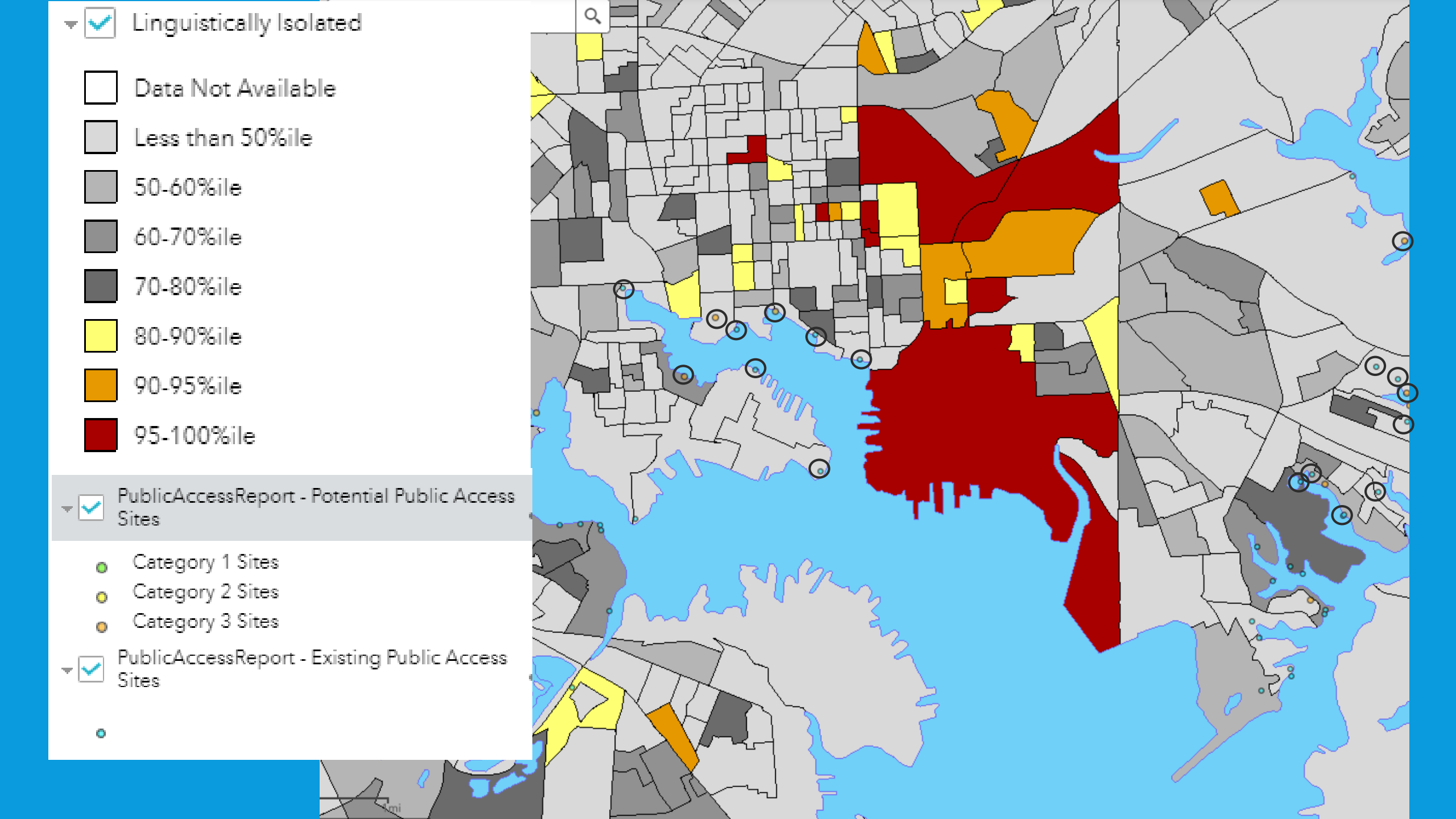
80-90%ile
90-95%ile
95-100%ile


Linguistically Isolated
Data Not Available
Less than 50%ile
50-60%ile
60-70%ile
70-80%ile
80-90%ile
90-95%ile
95-100%ile
PublicAccessReport - Potential Public Access Sites
Category 1 Sites
Category 2 Sites
Category 3 Sites
PublicAccessReport - Existing Public Access Sites

LESSONS LEARNED

- Tool contains a lot of useful information
- Pilot demonstrated the pros and cons of leveraging a national tool and building on top of it
- Difficult to navigate
- Low hanging fruit improvements were made by contractor prior to end of contract

OUTLOOK/LESSONS LEARNED

- Other improvements would likely require CBP to house significant parts of EPA national tool and invest additional resources into customization and maintenance
- During the course of the project, other Cross-GIT initiatives have emerged and are being pursued
  - *Cross-GIT Mapping Project*
  - *Ecosystem Services Mapping*
  - *Chesapeake Conservancy Collaboration*

LINKS

- Chesapeake EJ Screen Story Map Tutorial - https://gis.chesapeakebay.net/cbpejscreen/tutorial
- Chesapeake EJ Screen – https://gis.chesapeakebay.net/cbpejscreen/
- National EJ Screen - https://www.epa.gov/ejscreen