

**TRANSPORTATION EQUITY ANALYSIS
OF THE
CHESAPEAKE BAY CROSSING STUDY
ALTERNATIVES RETAINED FOR DETAILED STUDY
APPENDIX B**



JANUARY 2026

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1 PRIMARY INDICATORS

1.1 Minority Race and Ethnicity

Minority race and ethnicity includes all non-white populations¹, including persons belonging to one or more of the following groups:

- Black or African American: a person having origins in any of the black racial groups of Africa;
- Asian: a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent;
- American Indian and Alaska Native: a person having origins in any of the original people of North America or South America (including Central America), and who maintains cultural identification through Tribal affiliation or community recognition; or
- Native Hawaiian and Other Pacific Islander: a person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands; or.
- Hispanic or Latino ethnicity: a person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

Race and ethnicity data for the Analysis Area, Counties, and State was collected using U.S. Census ACS 5-Year Data (2018-2022). The minority population in Anne Arundel County (35 percent) and Queen Anne’s County (16 percent), are lower than the State minority percentage (51 percent). The percent minority race and ethnicity by Analysis Area community is found in **Table 1**.

Table 1: Analysis Area Minority Population

Analysis Area Community	Percent Minority Race and Ethnicity
Arnold	25%
Cape St. Claire	22%
Broadneck	17%
Kent Island	15%
Kent Narrows/Grasonville	18%
Queenstown	30%

Source: American Community Survey Five-Year Estimates (2018-2022).

¹

https://mde.maryland.gov/Environmental_Justice/Documents/Environmental%20Justice/EnviroScreen/FINAL__6.20.25_Maryland%20Department%20of%20the%20Environment%20MDEnviroScreen%20Tool%20Documentation%20V3.pdf

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1.2 Median Household Income

A “low-income” individual is defined as a person whose median household income is at or below the HHS poverty guidelines. U.S. Census ACS 5-Year Data (2018-2022) on incomes below poverty level, average household size, and median household income were collected at the census block group level for the analysis area, Anne Arundel County, Queen Anne’s County, and the State of Maryland. Within the analysis area, the average household size is three persons.

Two methods were considered in identifying low-income populations, as described below:

- (a) HHS Poverty Guidelines provide a threshold median income for low-income household identification by size of household. The threshold median income for the average-sized household within the analysis area (three-person) was \$23,030 in 2022. These guidelines are calculated on a national average and, therefore, may not accurately identify low-income block groups if the analysis area is within a region with a high cost of living.
- (b) If the analysis area is identified as having a cost of living higher than the national average and if no low-income populations are identified by HHS poverty guidelines, a more conservative analysis based on the HUD 2022 Income Limits Survey can be performed. The HUD Income Limits Survey calculates the threshold for a low-income household (a family earning 80% or less of an area’s median family income) at the Metropolitan Fair Market Rent (FMR)/Income Limits Area-level. These calculations are based on the number of persons in a household.

The HUD FY 2022 Income Limits Survey FMR/Income Limits Area-Level was collected for the Baltimore-Columbia-Towson, MD Metropolitan Statistical Area (BCT MSA) which includes Anne Arundel County and Queen Anne’s County. In the BCT MSA, the FMR/Income Limits (low-income limit) for a three-person household is \$80,500.

A comparison of the HHS median household income (\$23,030) and the HUD FMR/Income Limits for the BCT MSA (\$80,500) shows the HHS Poverty Guideline threshold is not appropriate for the analysis area because of the high cost of living; therefore, the FMR/Income Limits threshold of \$80,500 was used to identify low-income populations. An analysis area community is considered low-income if the median household income was at or below the low-income limit for a three-person household.

The median household income in the analysis area (\$129,121) is higher than the median household income of Anne Arundel County (\$116,009), Queen Anne’s County (\$108,332), and the State (\$98,461). The HUD FY 2022 Income Limits Survey FMR/Income Limits Area-Level for the BCT MSA for a three-person household of \$80,500 was used to identify low-income households using the FY 2022 median household income by analysis area community.

The median household income by community is described in **Table 2**.

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Table 2: Analysis Area Median Household Income

Analysis Area Community	Median Household Income
Arnold	\$136,251
Cape St. Claire	\$127,337
Broadneck	\$180,607
Kent Island	\$119,180
Kent Narrows/Grasonville	\$126,769
Queenstown	\$92,981

Source: American Community Survey Five-Year Estimates (2018-2022).

1.3 Households with Disability

People with disabilities face a variety of barriers within the built environment that can limit access to services, jobs and transportation. Lack of access to such services can also contribute to health issues and increase risks related to natural disasters. Household with disability data for the Analysis Area, Counties, and State was collected using U.S. Census ACS 5-Year Data (2018-2022). Within the Analysis Area and Queen Anne’s County, 21% of households have one or more persons with a disability; 22% of households in Anne Arundel County and 23% of households within the State have one or more persons with a disability.

The percentage of households with one or more persons with a disability by Analysis Area community is found in **Table 3**.

Table 3: Analysis Area Households with Disability

Analysis Area Community	Percent Households with 1 or more persons with a disability
Arnold	20%
Cape St. Claire	26%
Broadneck	17%
Kent Island	22%
Kent Narrows/Grasonville	18%
Queenstown	27%

Source: American Community Survey Five-Year Estimates (2018-2022).

1.4 Population Age 17-Years and Under

Youth are more vulnerable to environmental and health issues, including air pollution caused by vehicular traffic, and are often not considered in participation and decision making due to their nonvoting status. Additionally populations age 17 and under can be limited in access to transportation and are reliant on others or transit. The percentage of the population 17-years and under was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022). The Analysis Area has a higher population of persons 17 and under (24%) compared to Anne Arundel County (22%), Queen Anne’s County (21%) and the State (22%).

The percentage of the population age 17 years and under by Analysis Area community is found in **Table 4**Table 7.

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Table 4: Analysis Area Population Age 17 Years and Under

Analysis Area Community	Percent Population Age 17-Years and Under
Arnold	26%
Cape St. Claire	27%
Broadneck	26%
Kent Island	20%
Kent Narrows/Grasonville	22%
Queenstown	18%

Source: American Community Survey Five-Year Estimates (2018-2022).

1.5 Population Age 65-Years and Over

Persons aged 65-years and over can experience increased social vulnerabilities stemming from lack of access to transportation, healthcare and other services. Additionally, there may be barriers to participation in decision-making and community activities as a result of limited access to such services. The percentage of the population age 65-years and over was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022). The Analysis Area has a higher age 65 and over population (18%) compared to Anne Arundel County (15%) and the State (16%) but lower than Queen Anne’s County (20%).

The percentage of the population age 65 years and over by Analysis Area community is found in **Table 5**Table 7.

Table 5: Analysis Area Population Age 65 Years and Over

Analysis Area Community	Percent Population Age 65-years and Over
Arnold	15%
Cape St. Claire	16%
Broadneck	23%
Kent Island	21%
Kent Narrows/Grasonville	21%
Queenstown	23%

Source: American Community Survey Five-Year Estimates (2018-2022).

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1.6 Population Density

The population density of the Analysis Area is 658 persons per square mile, which is greater than Queen Anne’s County (135 persons per square mile) and less than Anne Arundel County (1,418 persons per square mile).

Table 6: Analysis Area Population Density

Analysis Area Community	Population Density per Square Mile
Arnold	2,287
Cape St. Claire	5,119
Broadneck	473
Kent Island	641
Kent Narrows/Grasonville	473
Queenstown	63

Source: American Community Survey Five-Year Estimates (2018-2022).

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2 SECONDARY INDICATORS

2.1 Zero-Vehicle Households

Zero-vehicle households can experience limited access to jobs, education, healthcare and other services, particularly in rural areas or areas with limited transit networks. High numbers of zero-vehicle households can also indicate the presence of low-income populations. The percentage of zero-vehicle households was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022). The percentage of zero-vehicle households within the Analysis Area (2%) is less than Anne Arundel County (4%), Queen Anne’s County (3%) and State (9%).

The percentage of zero-vehicle households by Analysis Area community is found in **Table 7**.

Table 7: Analysis Area Zero-Vehicle Households

Analysis Area Community	Percent Zero-Vehicle Households
Arnold	1%
Cape St. Claire	1%
Broadneck	4%
Kent Island	3%
Kent Narrows/Grasonville	5%
Queenstown	1%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.2 Limited English Proficiency (LEP) Households

Populations who face language proficiency barriers may be limited in their access to jobs and services, as well as to information that may only be available in English such as emergency service notifications. Additionally, limited English proficiency can be a barrier to full participation in understanding environmental studies and limit opportunities to provide feedback. Elevated LEP populations may also indicate the presence of minority populations. The percentage of LEP households was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022). The percentage of LEP households within the Analysis Area (1%) and Queen Anne’s County (1%) is less than Anne Arundel County (2%) and the State (3%).

The percentage of LEP households by Analysis Area community is found in **Table 8**Table 7.

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Table 8: Analysis Area LEP Households

Analysis Area Community	Percent LEP Households	Majority LEP Type
Arnold	<1%	Other Indo-European languages; Spanish
Cape St. Claire	<1%	Asian and Pacific Island languages
Broadneck	<1%	Other Languages; Other Indo-European languages
Kent Island	1%	Other Indo-European languages; Asian and Pacific Island languages
Kent Narrows/Grasonville	1%	Spanish
Queenstown	1%	Spanish

Source: American Community Survey Five-Year Estimates (2018-2022).

2.3 Population Born Outside of the United States

The percentage of the population born outside of the United States was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022). The percentage of persons born outside of the United States within the Analysis Area (6%), Queen Anne's County (4%) and Anne Arundel County (9%) is less than the State (16%).

Table 9: Analysis Area Population Born Outside of the United States

Analysis Area Community	Percent Population Age 17-Years and Under
Arnold	8%
Cape St. Claire	7%
Broadneck	7%
Kent Island	5%
Kent Narrows/Grasonville	3%
Queenstown	7%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.4 Unemployment

People who are unemployed may be impacted by social stigma around unemployment, which can lead to disengagement in the community. Unemployment can also increase stress which further increases health risks and financial limitations may prohibit access to services and participation in community activities. Unemployment, which is calculated using the number of employed persons divided by the total persons in the labor force, was collected for the Analysis Area, Counties, and State using U.S. Census ACS 5-Year Data (2018-2022) data. The unemployment rate in the Analysis Area and both counties is 4%, which is lower than the state at 5%.

Unemployment rate by Analysis Area community is found in **Table 10**Table 7.

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Table 10: Analysis Area Unemployment

Analysis Area Community	Unemployment Rate
Arnold	3%
Cape St. Claire	5%
Broadneck	2%
Kent Island	4%
Kent Narrows/Grasonville	3%
Queenstown	4%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.5 Households without Internet

Lack of internet access can reduce a person's ability to seek resources, jobs and education opportunities. Additionally, it can be a barrier to participation in decision-making and community engagement and limit a person's ability to receive information during public emergencies. Areas with a high number of households without internet may also indicate the presence of low-income populations. The percentage of households without internet was collected for the Analysis Area, Counties, and the State. The percent of households without internet by Analysis Area community is found in **Table 11**Table 7.

Table 11: Analysis Area Households without Internet

Analysis Area Community	Percent Households without Internet Access
Arnold	1%
Cape St. Claire	2%
Broadneck	<1%
Kent Island	5%
Kent Narrows/Grasonville	9%
Queenstown	9%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.6 Internet Access

Methods of internet access vary across demographic populations and socioeconomic status. U.S. Census ACS 2018 data trends indicate that households with older populations, low-income populations, disabled persons, and minority populations are less likely to have a broadband Internet subscription. Additionally, households relying on cellular service providers for internet access were more likely to make \$25,000 less, be headed by someone under 35 years old, or have a Black or Hispanic householder².

The percentage of households accessing internet with a cellular data plan and no other type of internet subscription, and the percentage of households accessing internet without a subscription (i.e. using public Wi-Fi or the library) was collected for the Analysis Area, Counties, and the State. There are less households in the Analysis Area (6%) with only a cellular data plan compared to

² U.S. Census Bureau. 2021. Computer and Internet Use in the United States: 2018, American Community Survey Reports. Retrieved May 2024.
<https://www.census.gov/content/dam/Census/library/publications/2021/acs/acs-49.pdf>

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Anne Arundel County (8%), Queen Anne’s County (9%) and the State (10%). There are more households in the Analysis Area that access the internet without a subscription (3%) than Anne Arundel County (2%) and the State (2%) but less than Queen Anne’s County (7%).

The percentage of households access the internet by cellular data plan only or without a subscription by Analysis Area community is found in

Table 12Table 10Table 7.

Table 12: Analysis Area Household Internet Access

Analysis Area Community	Percent Households with Cellular Data Plan Only	Percent Households with Internet Access without a Subscription
Arnold	4%	1%
Cape St. Claire	7%	<1%
Broadneck	7%	3%
Kent Island	7%	8%
Kent Narrows/Grasonville	8%	3%
Queenstown	10%	4%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.7 Population with Income Below the Poverty Level

U.S. Census ACS 5-Year Data (2018-2022) block group level data for median household income, average household size, and the percentage of population with income below poverty level was collected for the analysis area (5%), counties, and State (9%). The percentage of population with income below the poverty level in Anne Arundel (6%) and Queen Anne’s (7%) Counties is higher than the analysis area but lower than the state.

Table 13: Analysis Area Income Below the Poverty Level

Analysis Area Community	Percent of Population with Income Below the Poverty Level
Arnold	3%
Cape St. Claire	3%
Broadneck	2%
Kent Island	6%
Kent Narrows/Grasonville	8%
Queenstown	7%

Source: American Community Survey Five-Year Estimates (2018-2022).

2.8 Free and Reduced School Lunch

The Maryland State Department of Education publishes enrollment in free and reduced-price meals data annually. In the 2022-2023 school year, 42% of students in Anne Arundel County Public Schools, and 36% of students in Queen Anne’s County Public Schools received free or reduced-price meals. Within the Analysis Area, 23% of students received free or reduced-price meals.

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The percent of students enrolled in the free and reduced meal program by analysis area community is identified in **Table 14**.

Table 14: Analysis Area Free and Reduced Meal Program Enrollment

Analysis Area Community	Percent Free and Reduced Meal Program Enrollment
Arnold	18%
Cape St. Claire	18%
Broadneck	30%
Kent Island	29%
Kent Narrows / Grasonville	45%
Queenstown	No schools present within analysis area community

Source: Maryland State Department of Education, 2022-2023.

2.9 Cash Public Assistance or Food Stamps/SNAP Benefits

The Supplemental Nutrition Assistance Program (SNAP) is a federal program, administered by the State, under which qualifying households receive funds to purchase food. Persons eligible for SNAP benefits include those that are low-income, unemployed, receiving Temporary Cash Assistance (TCA), elderly, disabled, and persons who are homeless. Benefit amounts are dependent on household size and income³ The percentage of households utilizing food stamps/SNAP in the Analysis Area (6%) is comparatively lower than Anne Arundel (7%), Queen Annes County (9%) and the State (12%).

The percentage of households utilizing cash public assistance or food stamps/SNAP by Analysis Area community is found in **Table 15**Table 7.

Table 15: Analysis Area Households Utilizing Food Stamps/SNAP

Analysis Area Community	Percent Households Utilizing Food Stamps/SNAP
Arnold	4%
Cape St. Claire	5%
Broadneck	2%
Kent Island	11%
Kent Narrows/Grasonville	9%
Queenstown	5%

Source: American Community Survey Five-Year Estimates (2018-2022).

³ <https://dhs.maryland.gov/supplemental-nutrition-assistance-program/about-the-food-supplement-program/>

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2.10 Community Facilities

The identification of community facilities in relation to underserved and disadvantaged populations can be used to identify potential challenges someone may face trying to access these facilities and determine the burdens and benefits of the project on such facilities. Some facility types, including senior housing, homeless shelters, and subsidized housing can also be used to identify areas in which underserved and disadvantaged populations are more likely to be present. The following facility types are identified in this report: healthcare, senior housing/assisted living/nursing homes, homeless shelters, subsidized or Section 8 housing, and international grocery stores or markets. Further detail and information on additional community facilities can be found in the *Socioeconomic and Land Use Technical Report*. Community facilities were identified using a desktop-level assessment of U.S. Census data, Maryland iMap Geographic Information Systems (GIS) data, field reconnaissance and other readily available data sources such as County Master Plans and Google maps. Overall, community facilities are predominantly located within the U.S. 50/301 corridor throughout the study area, with additional facilities located along the MD 2 corridor in Anne Arundel County.

2.10.1 Healthcare Facilities

Table 16 summarizes the healthcare facilities within the Analysis Area by facility type and Analysis Area community. There are 13 facilities found within the Analysis Area, with facilities concentrated around the study corridor within the Kent Island and Kent Narrows/Grasonville communities, with Arnold housing the most healthcare facilities in the Anne Arundel portion of the study area. The nearest hospitals to the study corridor, University of MD Shore Medical Center at Easton (Talbot County) and the Anne Arundel Medical Center (Anne Arundel County) are located outside of the Analysis Area. The only community that does not have any kind of healthcare facility is Queenstown. The only healthcare facility identified in the Broadneck community, the Naval Health Clinic, is only accessible to persons on the Naval Support Activity (NSA) Annapolis base. The two Urgent Care facilities within the Analysis Area are in Queen Anne's County.

Table 16: Healthcare Facilities

Analysis Area Community	Facility Name	Facility Type
Arnold	Mid Atlantic Health Institute	Healthcare facility
	Maryland Primary Care Physicians	Healthcare facility
	US Renal Care Chesapeake Dialysis	Hospitals/Medical Centers
Cape St. Claire	Luminis Health Primary Care Cape St. Claire	Healthcare facility
Broadneck	Naval Health Clinic Annapolis	Hospitals/Medical Centers
Kent Island	Kent Island Behavioral Health/Kent Island Psychology	Healthcare Facility
	Bay Area Pediatrics	Healthcare Facility
	Anne Arundel Medical Center Pavilion/Annapolis Pediatrics - Kent Island	Hospitals/Medical Centers
	University of Maryland Urgent Care - Kent Island	Urgent Care

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Analysis Area Community	Facility Name	Facility Type
Kent Narrows/Grasonville	Chesterwye Center	Disabilities Support and Services
	University of Maryland Transplant Center at Queenstown	Hospitals/Medical Centers
	University of Maryland Shore Medical Pavilion	Medical Center
	University of Maryland Shore Emergency Center at Grasonville	Urgent Care

2.10.2 Senior Housing, Assisted Living / Nursing Homes, and Senior Centers

There are seven (7) senior housing facilities and 14 assisted living facilities/nursing homes (**Table 17**) located within the Analysis Area. Two senior housing facilities located in the Kent Island and Kent Narrows/Grasonville communities, Grasonville Terrace, and Stevensville Village Apartments, offer subsidized housing or assistance programs. There are three Senior Centers, located in the Arnold, Kent Island and Kent Narrow/Grasonville communities. Cape St. Clarie, and Queenstown have no senior facilities.

Table 17: Senior Facilities

Analysis Area Community	Facility Name	Facility Type
Arnold	Arnold Senior Activity Center	Senior Centers
	Cranberry Cottage IX	Assisted Living/Nursing Homes
	Cranberry Cottage VIII	Assisted Living/Nursing Homes
	Future Care Chesapeake	Assisted Living/Nursing Homes
	Jones Acres	Assisted Living/Nursing Homes
	Riva Terrace III	Assisted Living/Nursing Homes
	Riva Terrace V	Assisted Living/Nursing Homes
	Spirit Of Life I	Assisted Living/Nursing Homes

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Analysis Area Community	Facility Name	Facility Type
Broadneck	Annapolitan Care Center	Assisted Living/Nursing Homes
	Assisted Living Of Annapolis	Assisted Living/Nursing Homes
	Celebration Villa/Atria Manresa	Assisted Living/Nursing Homes
	Element at Mill Creek	Senior Housing, Senior Living Facilities/communities
	Riva Terrace Iv	Assisted Living/Nursing Homes
Kent Island	Arcadia Assisted Living LLC	Assisted Living/Nursing Homes
	Bay Bridge Cove	Senior Housing, Senior Living Facilities/communities
	K. Hovnanian's Four Seasons at Kent Island - Single Family	Senior Housing, Senior Living Facilities/communities
	Kent Island Senior Center	Senior Centers
	Stevensville Village Apartments	Senior Housing, Senior Living Facilities/communities
	Terrapin Grove	Senior Housing, Senior Living Facilities/communities
Kent Narrows / Grasonville	Grasonville Senior Center	Senior Centers
	Grasonville Terrace	Senior Housing, Senior Living Facilities/communities
	Heartland House	Assisted Living/Nursing Homes
	Queenstown Landing	Senior Housing, Senior Living Facilities/communities
	Whitewood Assisted Living	Assisted Living/Nursing Homes

2.10.3 Homeless Shelters

There is one shelter for people experiencing homelessness within the study area. Haven Ministries operates within the Queenstown community and also provides services as a food bank.

2.10.4 Subsidized or Section 8 Housing

Housing complexes identified as subsidized or Section 8 housing within the Analysis Area are shown in **Table 18**. The eight (8) housing complexes are located within the Cape St. Claire, Kent Island and Kent Narrows/Grasonville communities. Grasonville Terrace, Terrapin Grove and Stevensville Village Apartments, also identified in Table 17, are senior housing facilities.

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Table 18: Subsidized or Section 8 Housing

Analysis Area Community	Facility Name
Cape St. Claire	College Parkway Place Private Subsidized Housing
Kent Island	Kent Island Village Apartments
	Riverside Estates
	Stevensville Village Apartments
	Terrapin Grove
Kent Narrows/Grasonville	The Village of Slippery Hill
	Grasonville Terrace
	Fisher Manor Apartments Subsidized Housing

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2.10.5 International Grocery Stores or Markets

There are two (2) international grocery stores or markets within the Analysis Area, both of which are within the Kent Island community (

Table 19). Within the Kent Island community, the predominate LEP population languages are other Indo-European languages and Asian and Pacific Island languages (**Table 8**).

Table 19: International Grocery Stores or Markets

Analysis Area Community	Facility Name
Kent Island	KI Filipino and Asian Food Market
	Lo Nuestro

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3 ONLINE SCREENING TOOLS

Table 20: Summary of Online Environmental Justice/Equity Screening Tools

Analysis Area Community	EPA EJ Screen⁴	USDOT ETC⁵	MDE MDEnviroScreen⁶	BMC Vulnerability Index⁷
Arnold	No Indicators Noted	Transportation Insecurity	Underserved Population	Elderly, Percent of population that is Hispanic or Latino, Disability
Broadneck	Exposure to ozone	Transportation insecurity	Underserved Population	Percent of population that is Hispanic or Latino, Elderly
Cape St. Claire	No Indicators Noted	Transportation insecurity	No Indicators Noted	Percent of population that is Hispanic or Latino
Kent Island	No Indicators Noted	Transportation insecurity, Climate & Disaster Risk burden, Health vulnerability	Overburdened Population	Disability, Elderly, LEP
Kent Narrows /Grasonville	Exposure to ozone	Transportation insecurity, Health vulnerability, Climate & Disaster Risk burden	No Indicators Noted	Population with Income below 200% of the poverty level, Percent of population that is Hispanic or Latino, LEP, Elderly
Queenstown	No Indicators Noted	Transportation insecurity, Health vulnerability, Climate & Disaster Risk burden	No Indicators Noted	Percent of population that is Hispanic or Latino, LEP, Elderly

⁴ Accessed September 2024

⁵ Accessed October 2024

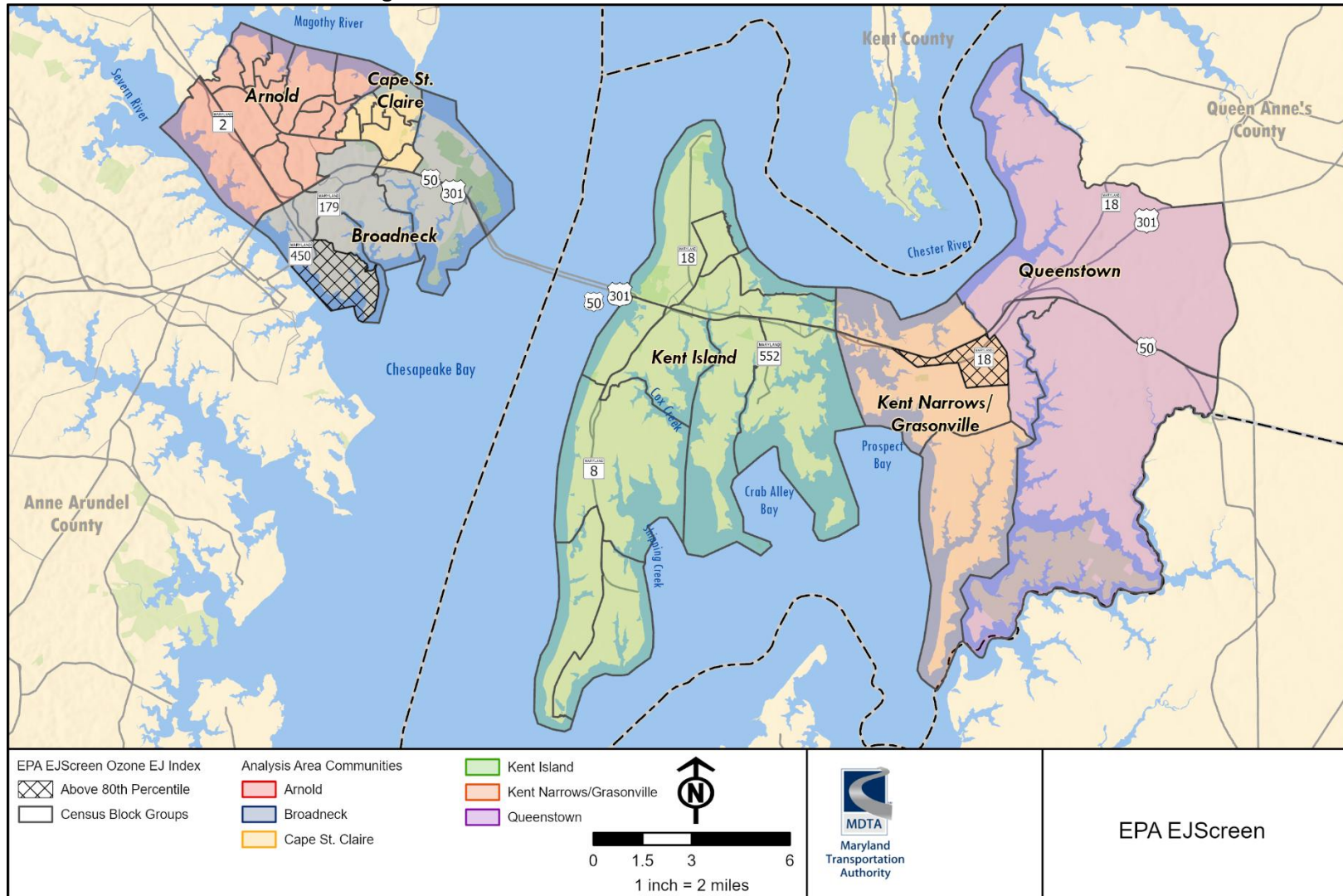
⁶ Accessed July 2025

⁷ Accessed November 2024

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3.1 EPA EJScreen (2.2)

Figure 1: EPA EJScreen Ozone Environmental Justice Index

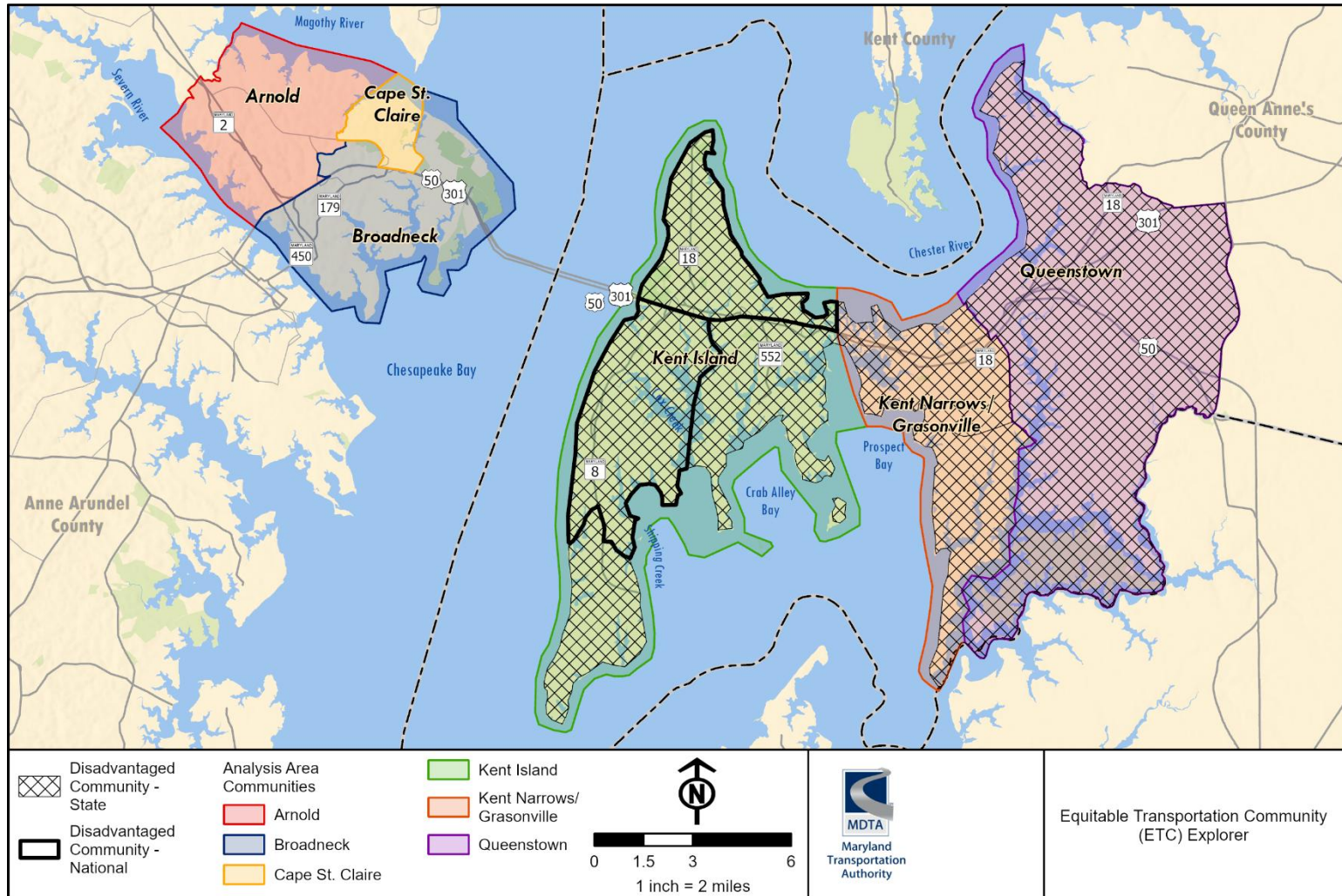


Source: EPA EJScreen 2.2.

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3.2 US DOT Equitable Transportation Community (ETC) Explore

Figure 2: ETC Explorer Disadvantaged Community -National and State Percentile



Source: USDOT ETC Explorer.

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Table 21: ETC Explorer National and State Results

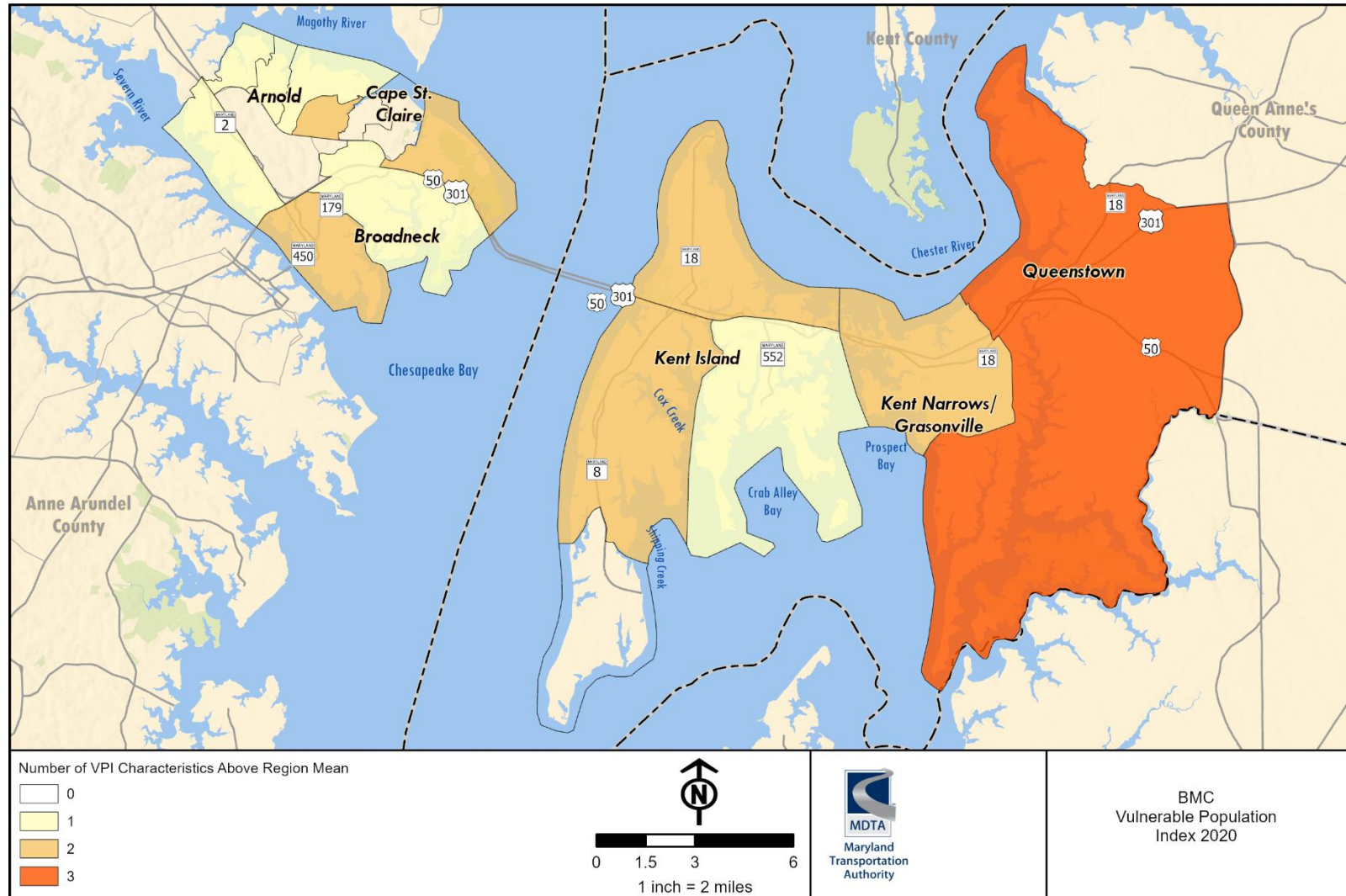
Analysis Area Community	Census Tract	Transportation Insecurity (%ile)		Health Vulnerability (%ile)		Environmental Burden (%ile)		Social Vulnerability (%ile)		Climate & Disaster Risk Burden (%ile)		Final Rank Score (%ile)	
		National	State	National	State	National	State	National	State	National	State	National	State
Arnold	7308	23.31	48.39	69.72	58.81	63.86	58.67	9.64	23.24	39.34	34.68	9.66	37.77
	7311.03	44.99	64.77	63.44	51.27	66.11	61.27	2.96	10.35	50.66	52.30	33.87	55.65
	7311.04	76.05	72.72	14.77	7.33	21.28	16.11	3.66	8.84	23.53	8.50	5.14	4.66
	7311.05	53.83	62.23	31.10	20.90	35.18	28.58	9.71	20.42	28.99	17.68	4.48	11.10
	7311.06	92.15	85.13	5.78	1.37	34.99	27.62	16.68	39.20	13.67	1.37	22.81	21.25
	7311.07	77.23	75.53	13.39	5.89	19.50	14.19	3.40	6.44	10.20	2.26	2.22	3.63
Broadneck	7309.01	35.07	58.33	66.45	55.31	56.40	47.64	15.47	23.92	48.27	45.92	23.60	46.88
	7309.02	41.40	64.91	64.70	52.57	49.28	39.48	2.53	4.87	45.09	49.90	16.62	39.99
Cape St. Claire	7310.03	46.81	67.79	59.84	46.54	34.40	26.32	3.58	9.39	51.64	48.25	15.96	33.69
	7310.04	42.39	59.01	59.41	45.78	31.57	23.85	9.86	30.71	56.65	51.82	15.55	36.60
Cape St. Claire, Broadneck	7310.02	56.70	72.10	64.64	52.71	53.42	44.00	3.85	7.40	47.66	46.06	40.25	50.65
Kent Island	8108	99.73	99.93	32.67	22.76	38.99	27.90	22.32	38.66	33.73	66.62	67.75	78.68
	8109.01	99.79	100.00	66.56	55.04	30.17	19.05	21.08	36.74	27.81	42.56	77.37	77.72
	8109.02	80.36	95.27	71.15	61.55	28.47	13.71	12.20	32.49	39.50	44.35	59.05	73.51
	8110	66.79	92.73	78.13	71.42	27.05	12.95	32.94	47.70	45.69	56.89	62.25	83.82
Kent Narrows / Grasonville	8107	89.83	96.09	37.93	29.40	35.75	19.19	34.24	50.51	27.20	56.75	60.68	75.46
Queenstown, Kent Narrows / Grasonville	8106	77.38	96.16	78.48	71.69	25.57	9.32	15.10	32.42	39.04	65.11	59.61	82.86

Source: USDOT ETC Explorer.

APPENDIX B

3.4 Baltimore Metropolitan Council (BMC) Vulnerable Population Index

Figure 5: BMC VPI 2020



Source: BMC.

APPENDIX B

Table 22: BMC Vulnerable Population Index Results

Analysis Area Community	Census Tract	Percent Population with Income below 200% of the poverty level		Percent of population that is a non-Hispanic minority (not White and not Hispanic):		Percent of population that is Hispanic or Latino (all races):		Percent of population over 5 years old that speaks English "not well" or "not at all":		Percent of population with a disability:		Percent of population that is age 75 or older:		Percent of households that do not have a car:	
		CT	Region	CT	Region	CT	Region	CT	Region	CT	Region	CT	Region	CT	Region
Arnold	Census Tract 7308	7.4	21.4	10.1	38.3	4.4	6	0.3	1.8	10.4	11.8	9.8	6.4	0.8	10.5
Broadneck	Census Tract 7309.01	17.6	21.4	14.3	38.3	13.2	6	0.7	1.8	5.5	11.8	7.8	6.4	0.8	10.5
Broadneck	Census Tract 7309.02	3.8	21.4	7.8	38.3	5.9	6	0	1.8	9.8	11.8	10.2	6.4	0	10.5
Cape St. Claire, Broadneck	Census Tract 7310.02	5.7	21.4	12.4	38.3	13.1	6	0.6	1.8	7.4	11.8	7	6.4	0.6	10.5
Cape St. Claire	Census Tract 7310.03	7.4	21.4	12.9	38.3	3.3	6	0	1.8	11.5	11.8	6.3	6.4	0	10.5
Cape St. Claire	Census Tract 7310.04	7.8	21.4	5.8	38.3	3.1	6	0.4	1.8	11.7	11.8	4.6	6.4	0.8	10.5
Arnold	Census Tract 7311.03	8.5	21.4	14.1	38.3	3.5	6	0.2	1.8	10.7	11.8	2.5	6.4	1.3	10.5
Arnold	Census Tract 7311.04	15.3	21.4	16.6	38.3	17.5	6	1	1.8	3.6	11.8	2.5	6.4	0	10.5
Arnold	Census Tract 7311.05	10.3	21.4	6.3	38.3	3	6	0.3	1.8	8.5	11.8	7.5	6.4	1.6	10.5
Arnold	Census Tract 7311.06	3.4	21.4	22.5	38.3	11.2	6	0.8	1.8	15.8	11.8	4.5	6.4	0.7	10.5
Arnold	Census Tract 7311.07	9.4	21.4	2.8	38.3	3.4	6	0.3	1.8	6.7	11.8	8.5	6.4	0	10.5
Queenstown, Kent Narrows / Grasonville	Census Tract 8106	9.9	21.4	6.1	38.3	11.5	6	4.4	1.8	9.4	11.8	8.5	6.4	1.2	10.5
Kent Narrows/Grasonville	Census Tract 8107	30.3	21.4	23.2	38.3	2.1	6	0	1.8	11.6	11.8	6.6	6.4	3.9	10.5

APPENDIX B

Analysis Area Community	Census Tract	Percent Population with Income below 200% of the poverty level		Percent of population that is a non-Hispanic minority (not White and not Hispanic):		Percent of population that is Hispanic or Latino (all races):		Percent of population over 5 years old that speaks English "not well" or "not at all":		Percent of population with a disability:		Percent of population that is age 75 or older:		Percent of households that do not have a car:	
		CT	Region	CT	Region	CT	Region	CT	Region	CT	Region	CT	Region	CT	Region
Kent Island	Census Tract 8108	10.7	21.4	7.4	38.3	3.2	6	0	1.8	19.6	11.8	7.6	6.4	5.8	10.5
Kent Island	Census Tract 8109.01	11.2	21.4	15	38.3	4.9	6	2.2	1.8	7.5	11.8	7.8	6.4	0.7	10.5
Kent Island	Census Tract 8109.02	8.4	21.4	3.7	38.3	0.1	6	0	1.8	11.3	11.8	4	6.4	0	10.5
Kent Island	Census Tract 8110	18	21.4	14.4	38.3	1.3	6	0	1.8	10.9	11.8	8.4	6.4	4.6	10.5

Source: BMC Vulnerable Population Index.

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