



Carolina Sunrock, LLC. – Prospect Hill
Quarry and Distribution Center
Draft Environmental Justice Report

North Carolina Department of Environmental Quality
August 9, 2021

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1 Introduction

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). This evaluation examines the demographic and environmental conditions in Caswell and Person Counties, census tracts 9306 and 9206.01, and the one-mile radius around the property boundary of the proposed Carolina Sunrock, LLC. – Quarry and Distribution Center facility. Finally, the demographics of the entire state of North Carolina are also considered as they compare to both the county and local census tract and radius settings.

An Environmental Justice (EJ) Snapshot was prepared in August 2020, at the beginning of the previous application process. The EJ Snapshot was distributed to interested community members (if known) and published on the DEQ website with the relevant permit application. The purpose of the EJ Snapshot was to encourage comments and suggestions from the surrounding community, industry, and environmental groups throughout the comment period at that time. The public hearing and accompanying comment period was extended three times in 2020 due to COVID-19, community concerns, and inclement weather. Carolina Sunrock LLC did not receive a permit from the Division of Air Quality in 2020, so has reapplied for a similar permit. Public comments will be considered throughout the remainder of the comment period to inform the final version of this EJ Report.

2 Environmental Justice Evaluation

The Department has assessed the permit applications and the potential impact on communities surrounding the sites associated with the requested permit applications. Carolina Sunrock LLC. submitted two separate permit applications for two locations. This Draft EJ Report only includes information regarding the Quarry and Distribution Center Facility. Please review the accompanying Draft EJ Report for information on the Burlington North Facility. Accordingly, the Draft EJ Report will include:

- The permit application submitted by Carolina Sunrock, LLC for the Quarry and Distribution Center
- Facility emissions overview
- Study of area demographics (determined by utilizing the US EPA Environmental Justice tool (EJSCREEN) <https://ejscreen.epa.gov/mapper/> and current, available census data. <https://data.census.gov/cedsci/>)
- Comparison of local area demographics to both county and statewide census data
- County health assessment for all counties
- Sensitive receptors surrounding the facility
- Local industrial sites surrounding the facility (using the NCDEQ Community Mapping System <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3cc212af8a0b8c8>).

Demographics for Caswell and Person counties, as well as the state, will be compared to the local level data (census tracts and project radius) to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the EPA and National

Environmental Policy Act (NEPA) documentation, the following conditions will be flagged as potentially underserved communities:

- 10% or more in comparison to the county or state average
- 50% or more minority
- 5% or more in comparison to the county or state average for poverty

3 Proposed Project

Carolina Sunrock, LLC. has submitted permit applications for two proposed sites in Caswell County, North Carolina. One is a hot mix asphalt and concrete batch plant, while the other is a quarry, hot mix asphalt plant, concrete batch plant, and distribution center. They are located approximately nine miles apart from each other. This Draft EJ Report only includes information regarding the Quarry and Distribution Center Facility. Please review the accompanying Draft EJ Report for information on the Burlington North Facility.

The proposed site of Carolina Sunrock LLC-Prospect Hill Quarry and Distribution Center, will include a rock quarry with associated stone processing equipment, hot mix asphalt plant, and concrete batch plant. The site also includes diesel and propane/natural gas-fired reciprocating internal combustion engine (RICEs) to power site equipment. The proposed quarry will include crushing, conveying and screening equipment, to be controlled by wet suppression. The proposed asphalt plant will include a 250 tons per hour maximum capacity drum-type dryer/mixer with an 80 million BTU per hour maximum heat input capacity burner capable of combusting propane, natural gas, No. 2/4 fuel oils, and recycled No. 2 fuel oil. Particulate matter emissions from the mixer will be controlled by a bagfilter. The plant will include 5 hot mix asphalt storage silos, asphalt truck loadouts, and a Recycled Asphalt Pavement (RAP) crushing, screening and conveying system. Primary site power will be provided by three natural/gas propane-fired generators equipped with catalytic oxidation systems. Additional diesel engines will provide mechanical energy for quarry equipment.

Potential emissions of criteria and hazardous air pollutants (after emissions controls and permit limits are taken into account) are shown in Table 2.¹

Table 1. Prospect Hill Quarry and Distribution Center Facility Emissions Overview

| Pollutant | Potential Emissions (with controls and permit limits, tons/year) |
|---------------------------------------|---|
| PM | 113.73 |
| PM ₁₀ | 41.92 |
| PM _{2.5} | 13.63 |
| SO ₂ | 25.27 |
| NO _x | 45.26 |
| CO | 99.38 |
| VOC | 43.93 |
| HAP _{Total} | 4.08 |
| HAP _{Highest} (Formaldehyde) | 0.956 |

¹ Accurate as of August 6, 2021. Values may change due to modifications to the permit throughout the permitting process.

4 Geographic Area

The proposed facility, Carolina Sunrock LLC- Prospect Hill Quarry and Distribution Center, is located at 1238 Wrenn Road Prospect Hill, NC 27314 (Figure 1). The highest off-site ambient air impacts will occur at the plant fence line. A one-mile radius was used to evaluate the local demographics and socioeconomic of the surrounding community and help inform public outreach efforts.

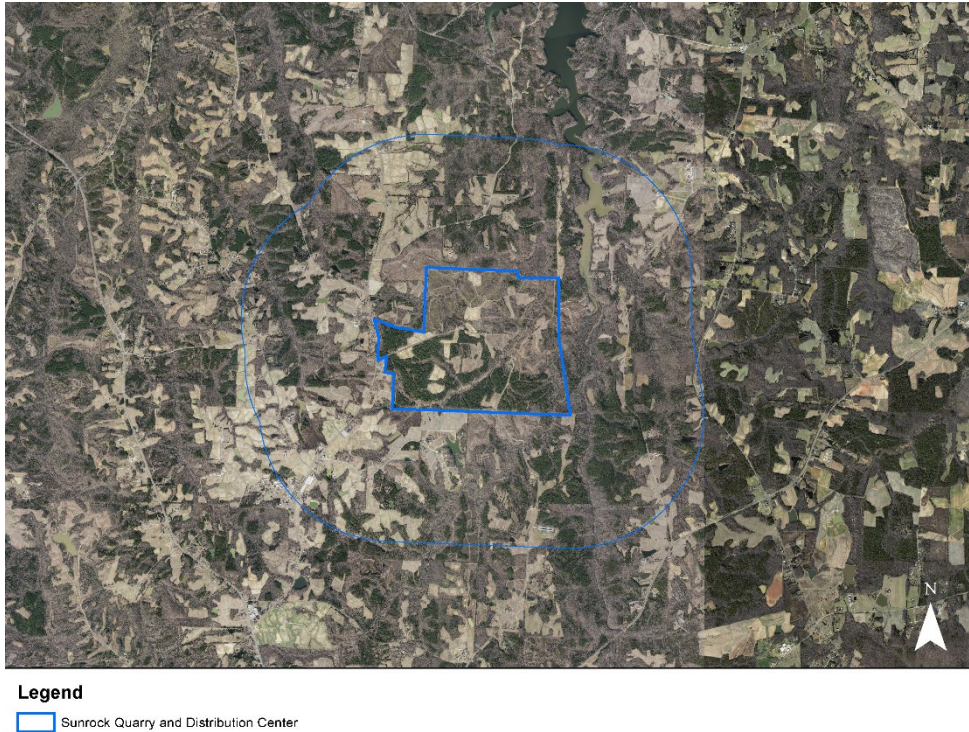


Figure 1. Quarry and Distribution Center facility location with one-mile radius.

The proposed facility would be located in Caswell County. Caswell County is designated as a Tier 1 county by the NC Department of Commerce. The one-mile buffer surrounding the Quarry and Distribution Center includes land in Person County, which is designated as Tier 2 county. According to the Department of Commerce, Tier 1 counties encompass the 40 most distressed counties based on average unemployment rate, median household income, percentage growth in population, and adjusted property tax per capita. Tier 2 counties encompass the next 40 counties based on this ranking system.

The one-mile radius used in this analysis is encompassed by two census tracts. The facility site is located in Census Tract 9306 in Caswell County. The one-mile buffer for the Quarry and Distribution Center enters Census Tract 9206.01 in Person County (Figure 2). Census tracts are small, relatively permanent statistical subdivisions of a county with a unique numeric code (US Census Bureau). None of the census tracts analyzed fall within a state designated tribal statistical area for this location.

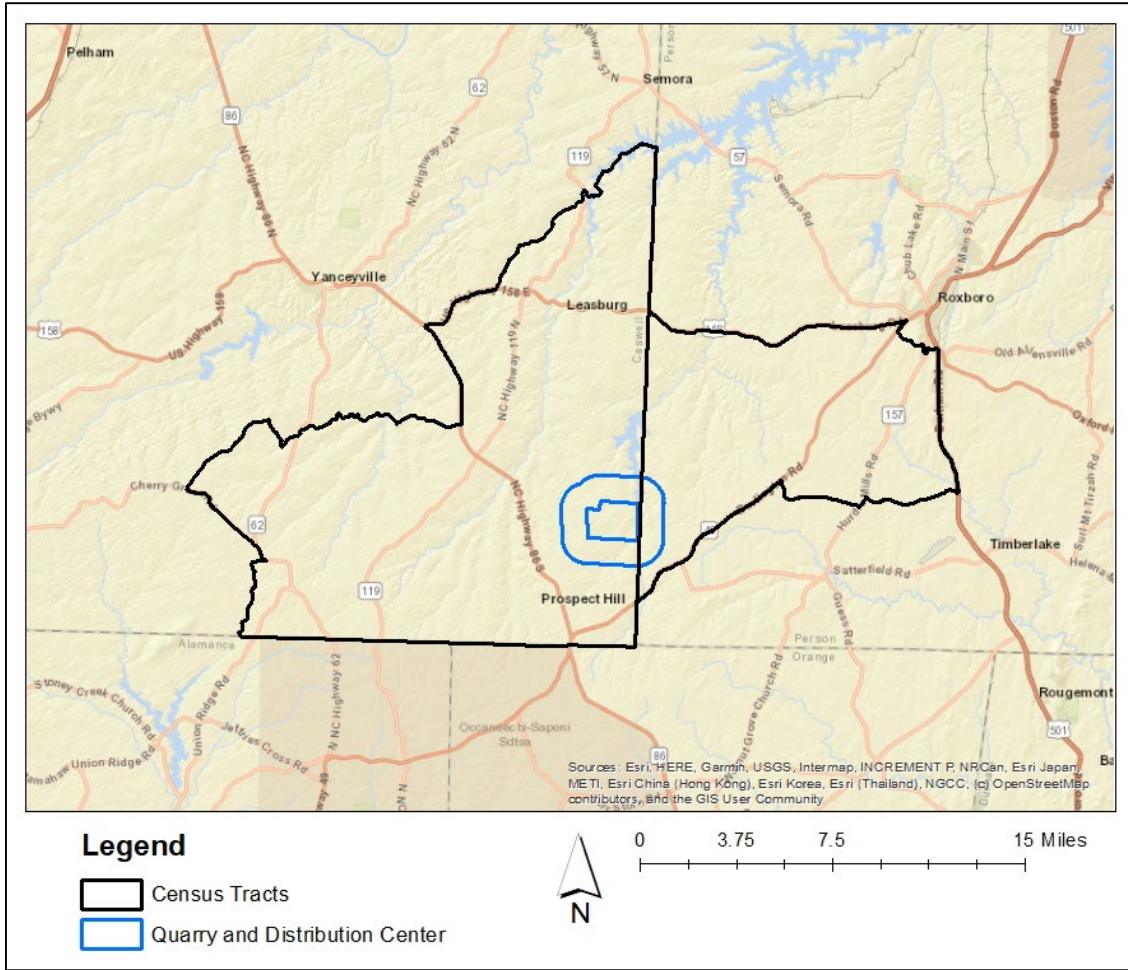


Figure 2. Census tracts surrounding the facility location.

5 Regional and Local Settings

The following sections on race and ethnicity, age and sex, disability, poverty, household income, and Limited English Proficiency (LEP) populations are based on US Census Bureau data, first at a state and county level (regional setting), and then at a census tract and project radius level (local setting). The surrounding census tracts included are those that overlap into the one-mile radius. Demographics of the counties will be compared to the local level data to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the EPA and NEPA documentation, the following conditions will be flagged as potentially underserved communities:

1. 10% or more in comparison to the county or state average
2. 50% or more minority
3. 5% or more in comparison to the county or state average for poverty

For example, if a census tract has 35% of the population classified as low income but the county consists of 30% low income, the census tract would exceed the county average by 16.7% and thus be flagged as a potential area of concern. For this report, census data from 2010 and census data estimates from 2011-2015 and 2013-2017 were used. 2010 Census Bureau data is real data gathered every ten years, whereas the estimates from the more recent years are modeled based on the real data. For the data gathered from the 2013-2017 and 2011-2015 estimates, the margin of error (MOE) has been included. This value is a measure of the possible variation of the estimate around the population value (US Census Bureau). The Census Bureau standard for the MOE is at the 90% confidence level and may be any number between 0 and the MOE value in either direction (indicated by +/-).

5.1 Race and Ethnicity

Regional Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By Race, North Carolina’s population totaled 9,535,483 individuals (Table 2). The three most common racial groups across the state were White (68.5%), Black or African American (21.5%) and Hispanic or Latino (of any race) at 8.4%.

Caswell County had a total population of 23,719 individuals (Table 2). Person County had a total population of 39,464 individuals. The three most common racial or ethnic groups within both counties were White (62.5% and 68.3%), Black or African American (33.8% and 27.0), and Hispanic or Latino (3.1% and 4.0%). In Caswell County and Person County, the Black or African American Population (33.8% in Caswell, 27.0% in Person) were greater than 10% different when compared to the state (21.5%).

Table 2. Regional Setting - Race and Ethnicity

| Race and Ethnicity | North Carolina | | Caswell County | | Person County | |
|--|----------------|---------|----------------|-------------|---------------|-------------|
| | Number | Percent | Number | Percent | Number | Percent |
| Total Population | 9,535,483 | 100 | 23,719 | 100.0 | 39,464 | 100.0 |
| White | 6,528,950 | 68.5 | 14,819 | 62.5 | 26,968 | 68.3 |
| Black or African American | 2,048,628 | 21.5 | 8,020 | 33.8 | 10,646 | 27.0 |
| American Indian or Alaska Native | 122,110 | 1.3 | 85 | 0.4 | 266 | 0.7 |
| Asian | 208,962 | 2.2 | 60 | 0.3 | 116 | 0.3 |
| Native Hawaiian and Other Pacific Islander | 6,604 | 0.1 | 4 | 0.0 | 4 | 0.0 |
| Some other Race | 414,030 | 4.3 | 350 | 1.5 | 868 | 2.2 |
| Two or More Races | 206,199 | 2.2 | 381 | 1.6 | 596 | 1.5 |
| HISPANIC OR LATINO (of any race) | 800,120 | 8.4 | 744 | 3.1 | 1,593 | 4.0 |
| Mexican | 486,960 | 5.1 | 607 | 2.6 | 1,195 | 3.0 |
| Puerto Rican | 71,800 | 0.8 | 42 | 0.2 | 94 | 0.3 |
| Cuban | 18,079 | 2.3 | 17 | 0.1 | 33 | 0.1 |
| Other Hispanic or Latino | 223,281 | 2.3 | 78 | 0.3 | 271 | 0.7 |
| Source: US Census Bureau, 2010 Census | | | | | | |
| All bolded and orange cells indicate a difference that is greater than 10% when compared to the State | | | | | | |

Local Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By race or ethnicity, the largest population within Census Tract 9306 in Caswell County was White at 70.3%, followed by Black or African American at 25.8%, and Hispanic or Latino at 3.2%. The Black or African American population (25.8%) was greater than 10% different compared to the state (21.5%). The largest population within Census Tract 9206.01 in Person County was White at 68.5%, followed by Black or African American at 24.2% and Hispanic or Latino at 8.0%. The population of Some other Race (5.3%) was greater than 10% different when compared to both the county (2.2%) and the state (4.3%).

The largest population in the one-mile radius surrounding the Quarry and Distribution Center was White at 81.0% (which is greater than 10% when compared to the state at 68.5%), followed by Black or African American (15.0%) and Hispanic (3.0%) (Table 3).

Table 3. Local Setting: Quarry and Distribution Center – Race and Ethnicity

| Race and Ethnicity | Project Area-1 Mile | | Census Tract 9306 Caswell County | | Census Tract 9206.01 Person County | |
|---|---------------------|-------------|-------------------------------------|-------------|---------------------------------------|-------------|
| | Number | Percent | Number | Percent | Number | Percent |
| Total Population | 183 | 100.0 | 4,790 | 100.0 | 5,133 | 100.0 |
| White | 149 | 81.0 | 3,367 | 70.3 | 3,518 | 68.5 |
| Black or African American | 27 | 15.0 | 1,238 | 25.8 | 1,243 | 24.2 |
| American Indian or Alaska Native | 0 | 0.0 | 20 | 0.2 | 25 | 0.5 |
| Asian | 0 | 0.0 | 8 | 0.2 | 6 | 0.1 |
| Native Hawaiian and Other Pacific Islander | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Some other Race | 4 | 2.0 | 84 | 1.8 | 270 | 5.3 |
| Two or More Races | 2 | 1.0 | 73 | 1.5 | 71 | 1.4 |
| HISPANIC OR LATINO (of any race) | | | | | | |
| | 6 | 3.0 | 151 | 3.2 | 413 | 8.0 |
| Mexican | | | 113 | 2.4 | 360 | 7.0 |
| Puerto Rican | | | 17 | 0.4 | 13 | 0.3 |
| Cuban | | | 0 | 0.0 | 2 | 0.0 |
| Other Hispanic or Latino | | | 21 | 0.4 | 38 | 0.7 |
| Source: US Census Bureau, 2010 Census | | | | | | |
| All bolded and orange cells indicate a difference that is greater than 10% when compared to the State | | | | | | |
| All bolded and blue cells indicate a difference that is greater than 10% when compared to the county and the State | | | | | | |

5.2 Age and Sex

Regional Setting

According to the 2010 US Census Data Table P 12: Sex by Age, North Carolina had a total population of 9,535,483 individuals (Table 4). The largest percentage of the total state population (63.1%) was between the ages of 18 and 64, followed by under 18 years (23.93%), and 65 years and older (12.94%).

Caswell County has a total population of 23,719 individuals. The largest percentage of the total population (63.56%) was between the ages of 18 and 64, followed by under 18 years (20.61%) and 65 years and older (15.83%).

Person County has a total population of 39,464 individuals. The largest percentage of the total population (61.72%) was between the ages of 18 and 64, followed by under 18 years (23.09%) and 65 years and older (15.19%).

In both counties, for both male and female subgroups, as well as the population overall, the populations of 65 years and older is greater than 10% different when compared to the state.

Table 4. Regional Setting- Age Groups and Sex

| Subject | North Carolina | | Caswell County | | Person County | |
|--|----------------|---------|----------------|--------------|---------------|--------------|
| | Number | Percent | Number | Percent | Number | Percent |
| Total Population: | 9,535,483 | 100 | 23,719 | 100 | 39,464 | 100 |
| Under 5 years: | 632,040 | 6.63 | 1,181 | 4.98 | 2,369 | 6 |
| Under 18 years: | 2,281,635 | 23.93 | 4,889 | 20.61 | 9,114 | 23.09 |
| 18 to 64 years: | 6,019,769 | 63.13 | 15,075 | 63.56 | 24,357 | 61.72 |
| 65 years and older: | 1,234,079 | 12.94 | 3,755 | 15.83 | 5,993 | 15.19 |
| Male: | 4,645,492 | 100 | 12,074 | 100 | 19,137 | 100 |
| Under 5 years: | 322,871 | 6.95 | 602 | 4.99 | 1,186 | 6.2 |
| Under 18 years: | 1,167,303 | 25.13 | 2,537 | 21.01 | 4,662 | 24.36 |
| 18 to 64 years: | 2,954,233 | 63.59 | 7,935 | 65.72 | 11,946 | 62.42 |
| 65 years and older: | 523,956 | 11.28 | 1,602 | 13.27 | 2,529 | 13.22 |
| Female: | 4,889,991 | 100 | 11,645 | 100 | 20,327 | 100 |
| Under 5 years: | 309,169 | 6.32 | 579 | 4.97 | 1,183 | 5.82 |
| Under 18 years: | 1,114,332 | 22.79 | 2,352 | 20.2 | 4,452 | 21.9 |
| 18 to 64 years: | 3,065,536 | 62.69 | 7,140 | 61.31 | 12,411 | 61.06 |
| 65 years and older: | 710,123 | 14.52 | 2,153 | 18.49 | 3,464 | 17.04 |
| Source: US Census Bureau, 2010 Census | | | | | | |
| All bolded and orange cells indicate a difference that is greater than 10% when compared to the State | | | | | | |

Local Setting

According to the 2010 US Census Data Table P 12: Sex by Age, Census Tract 9306 had a total population of 4,790 individuals (Table 5). The largest percentage of the total population (62.78%) was between the ages of 18 and 64, followed by under 18 years (20.63%), and 65 years and older (16.60%). The total population, as well as the female subgroup have a population of 65 years and older that is greater than 10% different than the state. The male subgroup has a population of 65 years and older that is greater 10% different than the county and the state.

Census Tract 9206.01 had a total population of 5,133 individuals. The largest percentage of the total population (60.84%) was between the ages of 18 and 64, followed by under 18 years (23.51%), and 65 years and older (15.64%). The total population, as well as the male and female subgroups have a population of 65 years and older that is greater than 10% different than the state.

Table 5. Local Setting- Age Groups and Sex

| Subject | Census Tract 9306, Caswell County | | Census Tract 9206.01 Person County | |
|---------------------|--------------------------------------|--------------|---------------------------------------|--------------|
| | Number | Percent | Number | Percent |
| Total Population: | 4,790 | 100 | 5,133 | 100 |
| Under 5 years: | 246 | 5.14 | 365 | 7.11 |
| Under 18 years: | 988 | 20.63 | 1,207 | 23.51 |
| 18 to 64 years: | 3,007 | 62.78 | 3,123 | 60.84 |
| 65 years and older: | 795 | 16.6 | 803 | 15.64 |
| Male: | 2,407 | 100 | 2,431 | 100 |
| Under 5 years: | 132 | 5.48 | 181 | 7.45 |
| Under 18 years: | 535 | 22.23 | 582 | 23.94 |
| 18 to 64 years: | 1,511 | 62.78 | 1,525 | 62.73 |
| 65 years and older: | 361 | 15 | 324 | 13.33 |
| Female: | 2,383 | 100 | 2,702 | 100 |
| Under 5 years: | 114 | 4.78 | 184 | 6.81 |
| Under 18 years: | 453 | 19.01 | 625 | 23.13 |
| 18 to 64 years: | 1,496 | 62.78 | 1,598 | 59.14 |
| 65 years and older: | 434 | 18.21 | 479 | 17.73 |

Source: US Census Bureau, 2010 Census
 All **bolded and orange** cells indicate a difference that is greater than 10% when compared to the State
 All **bolded and blue** cells indicate a difference that is greater than 10% when compared to the county and the State

EJSCREEN identified an approximate population of 225 in the 1-mile radius surrounding the Quarry and Distribution Center facility. The largest population was 18+ years, followed by 0-17 years at 21% (Table 6).

Table 6. Project Radius- Age Groups and Sex

| Subject | 1-mile (Quarry and Distribution Center) | |
|---------------------------------------|---|---------|
| | Number | Percent |
| Total Population | 225 | 100 |
| 0-4 years | 9 | 5 |
| 0-17 years | 38 | 21 |
| 18+ years | 145 | 79 |
| 65+ years | 33 | 18 |
| Source: US Census Bureau, 2010 Census | | |

5.3 Disability

Regional Setting

According to the 2013-2017 American Community Survey 5-Year Estimates, Table S1810 Disability Characteristics from the US Census Bureau, the state of North Carolina had an estimated total population of 9,845,238 noninstitutionalized citizens. Of those individuals, an estimated 13.7% (MOE +/- 0.1%) had a disability. The largest population of disabled civilians were 75 years and over (51.0%, MOE +/- 0.5%). The second largest population was the 65 years to 74 years at 27.2% (MOE +/- 0.3%). By race, American Indian and Alaskan Native had the highest estimated disability rate of 18.3% (MOE +/- 0.7%). Black or African American, White, and Native Hawaiian and Other Pacific Islander were the next three highest population estimates with disabilities in North Carolina, at 15.1% (MOE +/-0.2%, 14.0% (MOE +/- 0.1%), and 11.6% (MOE +/- 0.6%), respectively (Table 7).

Caswell County had an estimated total population of 21,970 noninstitutionalized citizens. Of those, an estimated 19.7% (MOE +/- 2%) had a disability. The largest population of disabled civilians were 75 years and over (60.9%, MOE +/- 7.2%) followed by 65 years to 74 years (32.4%, MOE +/-6%). By race, residents of Two or more races had the highest estimated disability rate (50.9%, MOE +/-31%). All populations, excluding American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, some other race, Hispanic or Latino, and 5 to 17 years displayed estimates that were greater than 10% different when compared to the state.

Person County had an estimated total population of 38,813 noninstitutionalized citizens. Of those, an estimated 19.1% (MOE +/-0.7%) had a disability (Table 8). The largest population of disabled civilians were 75 years and over (66.3%, MOE +/- 5.7%) followed by 65 years to 74 years (25.3, MOE +/-5.6%). By race, Black or African American residents had the highest estimated disability rate (23.6%, MOE +/-3.3%). The following population groups displayed estimates that were greater than 10% different when compared to the state: total civilian noninstitutionalized, male, female, white alone, Black or African American alone, American Indian and Alaska Native alone, two or more races, 18-34 years, 35 to 64 years, and 75 years and older.

Table 7. Regional Setting- Disability

| Subject | North Carolina | | | | | | Caswell County | | | | | |
|--|----------------|-----------------------|-------------------|-----------------------|---------------------------|-----------------------|----------------|-----------------------|-------------------|-----------------------|---------------------------|-----------------------|
| | Total | | With a Disability | | Percent with a Disability | | Total | | With a Disability | | Percent with a Disability | |
| | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) |
| Total civilian noninstitutionalized population | 9,845,238 | 1,883 | 1,344,677 | 9,296 | 13.7% | 0.1 | 21,970 | 136 | 4,339 | 445 | 19.7% | 2.0 |
| SEX | | | | | | | | | | | | |
| Male | 4,734,744 | 2,356 | 644,157 | 5,756 | 13.6% | 0.1 | 10,738 | 191 | 2,216 | 264 | 20.6% | 2.5 |
| Female | 5,110,494 | 1,611 | 700,520 | 5,791 | 13.7% | 0.1 | 11,232 | 96 | 2,123 | 275 | 18.9% | 2.4 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | | | | | | | |
| White alone | 6,805,260 | 7,679 | 950,044 | 7,928 | 14.0% | 0.1 | 13,885 | 214 | 2,594 | 350 | 18.7% | 2.5 |
| Black or African American alone | 2,101,735 | 5,025 | 316,325 | 4,035 | 15.1% | 0.2 | 7,202 | 228 | 1,573 | 257 | 21.8% | 3.7 |
| American Indian and Alaska Native alone | 114,961 | 1,802 | 20,994 | 862 | 18.3% | 0.7 | 23 | 26 | 0 | 22 | 0.0% | 61.8 |
| Asian alone | 266,672 | 1,954 | 13,149 | 763 | 4.9% | 0.3 | 130 | 22 | 35 | 32 | 26.9% | 24.5 |
| Native Hawaiian and Other Pacific Islander alone | 5,842 | 533 | 678 | 170 | 11.6% | 3 | 32 | 38 | 0 | 22 | 0.0% | 52.4 |
| Some other race alone | 306,809 | 7,341 | 15,461 | 1,136 | 5.0% | 0.3 | 429 | 184 | 0 | 22 | 0.0% | 7.3 |
| Two or more races | 243,959 | 5,401 | 28,026 | 1,407 | 11.5% | 0.5 | 269 | 163 | 137 | 106 | 50.9% | 31 |
| Hispanic or Latino (of any race) | 895,338 | 953 | 53,910 | 1,944 | 6.0% | 0.2 | 806 | 27 | 10 | 15 | 1.2% | 1.9 |
| AGE | | | | | | | | | | | | |
| Under 5 years | 603,917 | 730 | 5,099 | 590 | 0.8% | 0.1 | 1,080 | 35 | 22 | 33 | 2.0% | 3.1 |
| 5 to 17 years | 1,682,039 | 807 | 95,840 | 2,124 | 5.7% | 0.1 | 3,253 | 38 | 169 | 71 | 5.2% | 2.2 |
| 18 to 34 years | 2,190,572 | 2,241 | 144,807 | 3,125 | 6.6% | 0.1 | 4,018 | 103 | 300 | 110 | 7.5% | 2.8 |
| 35 to 64 years | 3,894,704 | 2,076 | 560,147 | 6,001 | 14.4% | 0.2 | 9,350 | 140 | 2,003 | 321 | 21.4% | 3.4 |
| 65 to 74 years | 895,249 | 1,047 | 243,488 | 2,801 | 27.2% | 0.3 | 2,651 | 47 | 859 | 155 | 32.4% | 6 |
| 75 years and over | 578,757 | 1,013 | 295,296 | 2,759 | 51.0% | 0.5 | 1,618 | 56 | 986 | 122 | 60.9% | 7.2 |

Table 8. Regional Setting- Disability cont'd

| Subject | Person County | | | | | |
|--|---------------|-----------------------|-------------------|-----------------------|---------------------------|-----------------------|
| | Total | | With a Disability | | Percent with a Disability | |
| | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) |
| Total civilian noninstitutionalized population | 38,813 | 147 | 7,419 | 656 | 19.1% | 0.7 |
| SEX | | | | | | |
| Male | 18,759 | 134 | 3,824 | 445 | 20.4% | 2.4 |
| Female | 20,054 | 145 | 3,595 | 436 | 17.9% | 2.2 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | |
| White alone | 26,437 | 313 | 4,730 | 512 | 17.9% | 1.9 |
| Black or African American alone | 10,488 | 293 | 2,471 | 363 | 23.6% | 3.3 |
| American Indian and Alaska Native alone | 322 | 80 | 66 | 37 | 20.5% | 13 |
| Asian alone | 60 | 51 | 2 | 4 | 3.3% | 7.4 |
| Native Hawaiian and Other Pacific Islander alone | 18 | 32 | 0 | 25 | 0.0% | 69.9 |
| Some other race alone | 722 | 317 | 19 | 28 | 2.6% | 4.5 |
| Two or more races | 766 | 279 | 131 | 81 | 17.1% | 10.8 |
| Hispanic or Latino (of any race) | 1,611 | 22 | 47 | 51 | 2.9% | 3.2 |
| AGE | | | | | | |
| Under 5 years | 2,147 | 106 | 17 | 27 | 0.0% | 1.3 |
| 5 to 17 years | 6,352 | 108 | 358 | 138 | 5.6% | 2.2 |
| 18 to 34 years | 7,049 | 115 | 685 | 191 | 9.7% | 2.7 |
| 35 to 64 years | 16,480 | 126 | 3,558 | 456 | 21.6% | 2.8 |
| 65 to 74 years | 4,140 | 64 | 1,048 | 235 | 25.3% | 5.6 |
| 75 years and over | 2,645 | 103 | 1,753 | 164 | 66.3% | 5.7 |
| Source: US Census Bureau, ACS 5-year Estimates (2013-2017) | | | | | | |
| All bolded and orange highlighted cells indicate a difference that is greater than 10% when compared to the State | | | | | | |

Local Setting

According to the 2013-2017 American Community Survey 5-Year Estimates, Table S1810 Disability Characteristics from the US Census Bureau, Census Tract 9306 in Caswell County had an estimated total population of 5,005 noninstitutionalized citizens (Table 9). Of those individuals, an estimated 15.4% (MOE +/- 4.2%) had a disability. The largest population of disabled civilians were 75 years and over (69.2%, MOE +/- 20.8%). The second largest population was the 65 years to 74 years at 35.5% (MOE +/- 14%). By race, Black or African American residents had the highest estimated disability rate of 19.6% (MOE +/- 12%). The following population groups had estimates that were greater than 10% when compared to the state: total civilian noninstitutionalized population, male, Black or African American alone, 35-64 years, and 65-74 years. The population group 75 years and older had an estimate that was greater than 10% when compared to the county and to the state.

Census Tract 9206.01 in Person County had an estimated total population of 5,346 noninstitutionalized citizens. Of those individuals, an estimated 24% (MOE +/- 6.3%) had a disability. The largest population of disabled civilians were 75 years and over (78.5%, MOE +/- 12.2%). The second largest population was Black or African American at 33.9% (MOE +/- 13.8%). The population group 18-34 years had an estimate that was greater than 10% different when compared to the state. The following population groups had estimates that were greater than 10% when compared to the state and the county: total civilian noninstitutionalized population, male, female, White, Black or African American, 5-17 years, 35-64 years, and 75 years and over.

Table 9. Local Setting- Disability

| Subject | Census Tract 9306, Caswell County | | | | | | Census Tract 9206.01, Person County | | | | | |
|--|-----------------------------------|-----------------------|-------------------|-----------------------|---------------------------|-----------------------|-------------------------------------|-----------------------|-------------------|-----------------------|---------------------------|-----------------------|
| | Total | | With a Disability | | Percent with a Disability | | Total | | With a Disability | | Percent with a Disability | |
| | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) |
| Total civilian noninstitutionalized population | 5,005 | 493 | 769 | 227 | 15.4% | 4.2 | 5,346 | 644 | 1,285 | 284 | 24.0% | 6.3 |
| SEX | | | | | | | | | | | | |
| Male | 2,556 | 270 | 436 | 142 | 17.1% | 5.5 | 2,542 | 341 | 690 | 178 | 27.1% | 7.5 |
| Female | 2,449 | 286 | 333 | 123 | 13.6% | 4.5 | 2,804 | 392 | 595 | 190 | 21.2% | 7.5 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | | | | | | | |
| White alone | 3,697 | 377 | 517 | 199 | 14.0% | 5.3 | 3,525 | 580 | 832 | 208 | 23.6% | 7.5 |
| Black or African American alone | 1,289 | 312 | 252 | 165 | 19.6% | 12 | 1,275 | 301 | 432 | 200 | 33.9% | 13.8 |
| American Indian and Alaska Native alone | 0 | 17 | 0 | 17 | - | ** | 0 | 17 | 0 | 17 | - | ** |
| Asian alone | 8 | 16 | 0 | 17 | 0.0% | 100 | 0 | 17 | 0 | 17 | - | ** |
| Native Hawaiian and Other Pacific Islander alone | 0 | 17 | 0 | 17 | - | ** | 0 | 17 | 0 | 17 | - | ** |
| Some other race alone | 0 | 17 | 0 | 17 | - | ** | 358 | 338 | 0 | 17 | 0.0% | 8.7 |
| Two or more races | 11 | 22 | 0 | 17 | 0.0% | 89.4 | 188 | 177 | 21 | 33 | 11.2% | 23.5 |
| Hispanic or Latino (of any race) | 33 | 39 | 0 | 17 | 0.0% | 51.6 | 557 | 311 | 0 | 17 | 0.0% | 5.7 |
| AGE | | | | | | | | | | | | |
| Under 5 years | 324 | 93 | 0 | 17 | 0.0% | 9.5 | 343 | 162 | 0 | 17 | 0.0% | 9 |
| 5 to 17 years | 854 | 199 | 25 | 28 | 2.9% | 3.4 | 824 | 307 | 68 | 74 | 8.3% | 8 |
| 18 to 34 years | 1,094 | 209 | 30 | 47 | 2.7% | 4.3 | 1,027 | 212 | 78 | 69 | 7.6% | 6.7 |
| 35 to 64 years | 1,959 | 270 | 378 | 150 | 19.3% | 7.2 | 2,062 | 267 | 620 | 228 | 30.1% | 11 |
| 65 to 74 years | 592 | 135 | 210 | 104 | 35.5% | 14 | 495 | 146 | 52 | 66 | 10.5% | 14 |
| 75 years and over | 182 | 69 | 126 | 65 | 69.2% | 20.8 | 595 | 143 | 467 | 145 | 78.5% | 12.2 |

Source: US Census Bureau, American Community Survey (5-year estimates)
 All **bolded** and **orange** highlighted cells indicate a difference that is greater than 10% when compared to the State
 All **bolded** and **blue** highlighted cells indicate a difference that is greater than 10% when compared to the County and State

5.4 Poverty

Regional Setting

According to the Census Table S1701, Poverty Status in the Past 12 Months, 2013-2017 American Community Survey 5-Year Estimates, from the US Census Bureau, North Carolina had an estimated population of 9,783,738, with 16.1% (MOE +/- 0.2%) below the poverty level (Table 10). Across all subjects, Some other race had the highest percent living below the poverty level at 32.0% (MOE +/- 1.4%). The next three subjects with the highest poverty level were Hispanic or Latino at 30.1% (MOE +/- .8%), American Indian and Alaska Native at 26.2% (MOE +/- 1.5%), and Black or African American at 24.9% (MOE +/- .4%). The age group with the highest population below poverty was under 18 (22.9%, MOE +/- 0.4%), followed by 18 to 64 (15.3%, MOE +/- 0.2%).

Caswell County had an estimated population of 21,870 with 21.3% (MOE +/-2.9%) living below the poverty level. Across all subjects, two or more races had the highest percent living below the poverty level at 65.4% (MOE +/- 7.4%). The next subjects with the highest poverty level were Some other race at 59.2% (MOE +/- 32.2%) and Hispanic or Latino at 56.1% (MOE +/- 19.9%). All subject groups had a greater than 5% difference when compared to the state, excluding Native Hawaiian and Other Pacific Islander and American Indian and Alaska Native.

Person County had an estimated population of 38,697 with 18.1% (MOE +/-2.6%) living below the poverty level. Across all subjects, Some Other Race had the highest percent living below the poverty level at 68.7% (MOE +/- 26.2%). The next subjects with the highest poverty level were Hispanic or Latino at 37.8% (MOE +/- 19.8%) and under 18 at 29.1% (MOE +/- 5.6%). The following subject groups had a greater than 5% difference when compared to the state: overall population, under 18, 65 years and over, male, female, Black or African American, Some other Race, and Hispanic or Latino (Table 11).

Table 10. Regional Setting- Poverty

| Subject | North Carolina | | | | | | Caswell County | | | | | |
|--|----------------|---------------------|---------------------|---------------------|-----------------------------|---------------------|----------------|---------------------|---------------------|---------------------|-----------------------------|---------------------|
| | Total | | Below poverty level | | Percent below poverty level | | Total | | Below poverty level | | Percent below poverty level | |
| | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- |
| Population for whom poverty status is determined | 9,783,738 | 1,751 | 1,579,871 | 17,833 | 16.1 | 0.2 | 21,870 | 156 | 4,666 | 650 | 21.3 | 2.9 |
| AGE | | | | | | | | | | | | |
| Under 18 | 2,256,186 | 1,865 | 516,821 | 9,185 | 22.9 | 0.6 | 4,233 | 76 | 1,449 | 312 | 34.2 | 7.2 |
| 18 to 64 | 6,053,546 | 1,090 | 923,859 | 9,663 | 15.3 | 0.4 | 13,368 | 144 | 2,471 | 395 | 18.5 | 2.9 |
| 65 years and over | 1,474,006 | 881 | 139,191 | 2,754 | 9.4 | 0.2 | 4,269 | 56 | 746 | 199 | 17.5 | 4.6 |
| SEX | | | | | | | | | | | | |
| Male | 4,733,269 | 2,259 | 694,126 | 9,539 | 14.7 | 0.2 | 10,709 | 189 | 2,255 | 378 | 21.1 | 3.5 |
| Female | 5,050,469 | 2,443 | 885,745 | 10,217 | 17.5 | 0.2 | 11,161 | 115 | 2,411 | 368 | 21.6 | 3.3 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | | | | | | | |
| White | 6,776,691 | 7,591 | 845,573 | 13,639 | 12.5 | 0.2 | 13,814 | 220 | 2,263 | 503 | 16.4 | 3.7 |
| Black or African American | 2,077,559 | 4,736 | 517,071 | 8,162 | 24.9 | 0.4 | 7,188 | 227 | 1,950 | 365 | 27.1 | 5.1 |
| American Indian and Alaska Native | 114,751 | 1,804 | 30,017 | 1,757 | 26.2 | 1.5 | 23 | 26 | 4 | 7 | 17.4 | 36.9 |
| Asian | 262,596 | 1,970 | 33,282 | 2,248 | 12.7 | 0.9 | 130 | 22 | 29 | 41 | 22.3 | 31.8 |
| Native Hawaiian and Other Pacific Islander | 5,886 | 537 | 1,097 | 297 | 18.6 | 4.9 | 32 | 38 | 0 | 22 | 0.0 | 52.4 |
| Some other race | 305,431 | 7,334 | 97,609 | 5,276 | 32.0 | 1.4 | 429 | 184 | 254 | 204 | 59.2 | 32.2 |
| Two or more races | 240,824 | 5,455 | 55,222 | 2,570 | 22.9 | 1 | 254 | 162 | 166 | 165 | 65.4 | 43.5 |
| Hispanic or Latino | 894,810 | 1,312 | 268,985 | 7,035 | 30.1 | 0.8 | 806 | 27 | 452 | 160 | 56.1 | 19.9 |
| All individuals below: | | | | | | | | | | | | |
| 50 percent of poverty level | 688,118 | 10,757 | | | | | 1,965 | 538 | | | | |
| 125 percent of poverty level | 2,094,292 | 20,441 | | | | | 5,709 | 679 | | | | |
| 150 percent of poverty level | 2,596,452 | 22,139 | | | | | 6,652 | 697 | | | | |
| 185 percent of poverty level | 3,291,075 | 23,334 | | | | | 8,328 | 753 | | | | |
| 200 percent of poverty level | 3,571,557 | 25,056 | | | | | 9,398 | 764 | | | | |

Table 11. Regional Setting- Poverty cont'd

| Subject | Person County | | | | | |
|---|---------------|---------------------|---------------------|---------------------|-----------------------------|---------------------|
| | Total | | Below poverty level | | Percent below poverty level | |
| | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- |
| Population for whom poverty status is determined | 38,697 | 190 | 6,998 | 992 | 18.1 | 2.6 |
| AGE | | | | | | |
| Under 18 | 8,342 | 118 | 2,429 | 466 | 29.1 | 5.6 |
| 18 to 64 | 23,570 | 99 | 3,793 | 620 | 16.1 | 2.6 |
| 65 years and over | 6,785 | 132 | 776 | 200 | 11.4 | 2.9 |
| SEX | | | | | | |
| Male | 18,680 | 138 | 3,045 | 548 | 16.3 | 2.9 |
| Female | 20,017 | 155 | 3,953 | 598 | 19.7 | 3.0 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | |
| White | 26,330 | 313 | 3,397 | 836 | 12.9 | 3.1 |
| Black or African American | 10,515 | 298 | 2,950 | 613 | 28.1 | 5.8 |
| American Indian and Alaska Native | 322 | 80 | 30 | 41 | 9.3 | 11.5 |
| Asian | 60 | 51 | 0 | 25 | 0.0 | 38.3 |
| Native Hawaiian and Other Pacific Islander | 0 | 25 | 0 | 25 | - | ** |
| Some other race | 722 | 317 | 496 | 330 | 68.7 | 26.2 |
| Two or more races | 748 | 282 | 125 | 96 | 16.7 | 13.0 |
| Hispanic or Latino | 1,605 | 31 | 607 | 319 | 37.8 | 19.8 |
| All individuals below: | | | | | | |
| 50 percent of poverty level | 2,537 | 659 | | | | |
| 125 percent of poverty level | 9,575 | 1,029 | | | | |
| 150 percent of poverty level | 11,526 | 1,005 | | | | |
| 185 percent of poverty level | 14,694 | 1,196 | | | | |
| 200 percent of poverty level | 15,165 | 1,233 | | | | |
| Source: American Community Survey 5-year Estimates, 2013-2017 | | | | | | |
| All bolded and orange cells indicate a difference that is greater than 5% when compared to the State | | | | | | |

Local Setting

According to the Census Table S1701, Poverty Status in the Past 12 Months, 2013-2017 American Community Survey 5-Year Estimates, from the US Census Bureau, Census Tract 9306 in Caswell County had an estimated population of 4,956 with 22.3% (MOE +/-7.5%) living below the poverty level (Table 12). Across all subjects, Asian (100%, MOE +/- 100%) and two or more races (100% MOE +/- 89.4%) had the highest percent living under the poverty level. The next subjects with the highest poverty level were Hispanic or Latino at 69.7% (MOE +/- 50.5%), and under 18 at 39.8% (MOE +/- 17.2%). The following subject groups had a greater than 5% difference when compared to the county and the state: under 18, male, white, Black or African American, American Indian and Alaska Native, Asian, Two or more races, and Hispanic or Latino. The following groups had a greater than 5% difference when compared to the state: total population, 18 to 64 years, and female.

Census Tract 9206.01 in Person County had an estimated population of 5,264 with 24.4% (MOE +/-9.1%) living below the poverty level. Across all subjects, some other race had the highest percent living below the poverty level at 76.3% (MOE +/- 48%). The next subjects with the highest poverty level were under 18 at 59.4% (MOE +/- 19.5%), and Hispanic or Latino at 49% (MOE +/- 48.7%). The following subject groups had a greater than 5% difference when compared to the county and state: total population, under 18, 18 to 64, male, female, white, Some other race, and Hispanic or Latino. The population of Black or African American residents had a greater than 5% difference when compared to the state.

Table 12. Local Setting- Poverty

| Subject | Census Tract 9306, Caswell County | | | | | | Census Tract 9206.01, Person County | | | | | |
|--|-----------------------------------|---------------------|---------------------|---------------------|-----------------------------|---------------------|-------------------------------------|---------------------|---------------------|---------------------|-----------------------------|---------------------|
| | Total | | Below poverty level | | Percent below poverty level | | Total | | Below poverty level | | Percent below poverty level | |
| | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- | Estimate | Margin of Error +/- |
| Population for whom poverty status is determined | 4,956 | 496 | 1,106 | 401 | 22.3 | 7.5 | 5,264 | 587 | 1,283 | 556 | 24.4 | 9.1 |
| AGE | | | | | | | | | | | | |
| Under 18 | 1,129 | 210 | 449 | 239 | 39.8 | 17.2 | 1,085 | 335 | 644 | 321 | 59.4 | 19.5 |
| 18 to 64 | 3,053 | 354 | 587 | 224 | 19.2 | 6.9 | 3,089 | 367 | 549 | 292 | 17.8 | 8.8 |
| 65 years and over | 774 | 124 | 70 | 59 | 9.0 | 7.6 | 1,090 | 154 | 90 | 66 | 8.3 | 6.3 |
| SEX | | | | | | | | | | | | |
| Male | 2,556 | 270 | 616 | 289 | 24.1 | 10.6 | 2,491 | 322 | 572 | 237 | 23.0 | 8.2 |
| Female | 2,400 | 293 | 490 | 191 | 20.4 | 7.4 | 2,773 | 365 | 711 | 353 | 25.6 | 11.1 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | | | | | | | | |
| White | 3,648 | 380 | 705 | 303 | 19.3 | 8 | 3,443 | 526 | 643 | 401 | 18.7 | 10.4 |
| Black or African American | 1,289 | 312 | 382 | 261 | 29.6 | 17.5 | 1,275 | 301 | 367 | 233 | 28.8 | 14.2 |
| American Indian and Alaska Native | 0 | 17 | 0 | 17 | - | ** | 0 | 17 | 0 | 17 | - | ** |
| Asian | 8 | 16 | 8 | 16 | 100.0 | 100 | 0 | 17 | 0 | 17 | - | ** |
| Native Hawaiian and Other Pacific Islander | 0 | 17 | 0 | 17 | - | ** | 0 | 17 | 0 | 17 | - | ** |
| Some other race | 0 | 17 | 0 | 17 | - | ** | 358 | 338 | 273 | 341 | 76.3 | 48 |
| Two or more races | 11 | 22 | 11 | 22 | 100.0 | 89.4 | 188 | 177 | 0 | 17 | 0.0 | 15.8 |
| Hispanic or Latino | 33 | 39 | 23 | 32 | 69.7 | 50.5 | 557 | 311 | 273 | 341 | 49.0 | 48.7 |
| All individuals below: | | | | | | | | | | | | |
| 50 percent of poverty level | 414 | 250 | | | | | 549 | 380 | | | | |
| 125 percent of poverty level | 1,148 | 402 | | | | | 1,675 | 550 | | | | |
| 150 percent of poverty level | 1,238 | 413 | | | | | 1,784 | 554 | | | | |
| 185 percent of poverty level | 1,418 | 430 | | | | | 2,285 | 540 | | | | |
| 200 percent of poverty level | 1,862 | 515 | | | | | 2,348 | 536 | | | | |
| Source: American Community Survey 5-year Estimates, 2013-2017 | | | | | | | | | | | | |
| All bolded and orange cells indicate a difference that is greater than 5% when compared to the State | | | | | | | | | | | | |
| All bolded and blue cells indicate a difference that is greater than 5% when compared to the county and the State | | | | | | | | | | | | |

5.5 Household Income

Regional Setting

The following table was compiled using data from the Census Table S1901, Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars) 2013-2017 American Community Survey 5-Year Estimates for North Carolina. The North Carolina household income range with the highest percent was \$50,000 to \$74,999, at 18.1%. The median household income was \$50,320 and the mean income was \$70,523 (Table 13).

The household income range for Caswell County with the highest percent was \$50,000 to \$74,999 at 16.7% (MOE +/- 2.6%). The median income was \$39,428 and the mean income was \$52,548. All income ranges less than \$50,000 had percentages that were more than 10% higher than the state ranges. The household income range for Person County with the highest percent was \$50,000 to \$74,999 at 18.0% (MOE +/- 2.3%). The median income was \$44,921 and the mean income was \$58,792. The income ranges from \$15,000 to \$34,999 had percentages that were more than 10% higher than the state ranges.

Table 13. Regional Setting- Household Income

| Subject | North Carolina | | Caswell County | | Person County | |
|--|----------------|-----------------------|----------------|-----------------------|---------------|-----------------------|
| | Households | | Households | | Households | |
| | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) |
| Total | 3,874,346 | 8,789 | 9,160 | 276 | 15,772 | 340 |
| Less than \$10,000 | 7.3% | 0.1 | 9.1% | 2 | 7.6% | 1.8 |
| \$10,000 to \$14,999 | 5.8% | 0.1 | 10.2% | 2.5 | 5.9% | 1.4 |
| \$15,000 to \$24,999 | 11.1% | 0.1 | 13.5% | 2.3 | 15.2% | 2.2 |
| \$25,000 to \$34,999 | 11.0% | 0.1 | 12.1% | 2.2 | 12.2% | 1.9 |
| \$35,000 to \$49,999 | 14.5% | 0.1 | 16.6% | 2.7 | 14.3% | 2.1 |
| \$50,000 to \$74,999 | 18.1% | 0.1 | 16.7% | 2.6 | 18.0% | 2.3 |
| \$75,000 to \$99,999 | 11.8% | 0.1 | 10.4% | 2.1 | 12.7% | 1.6 |
| \$100,000 to \$149,999 | 11.7% | 0.1 | 7.1% | 1.7 | 10.1% | 1.7 |
| \$150,000 to \$199,999 | 4.4% | 0.1 | 2.4% | 1.2 | 2.5% | 0.9 |
| \$200,000 or more | 4.3% | 0.1 | 1.9% | 1.1 | 1.5% | 0.8 |
| Median income (dollars) | 50,320 | 204 | 39,428 | 2,039 | 44,921 | 2,487 |
| Mean income (dollars) | 70,523 | 287 | 52,548 | 3,820 | 58,792 | 4,201 |
| Source: US Census, ACS 5-year Estimates 2013-2017. All orange and bolded cells indicate a difference of greater than 10% increase when compared to the state. | | | | | | |

Local Setting

The household income range for Census Tract 9306 in Caswell County with the highest percent was \$50,000 to \$74,999 at 19.1% (MOE +/- 7.2%). The median income was \$55,975 and the mean income was \$62,498 (Table 14). The income range \$10,000 to \$14,999 had percentages that were more than 10% higher than the state ranges. The household income range for Census

Tract 9206.01 in Person County with the highest percent was \$50,000 to \$74,999 at 21.6% (MOE +/- 7.3%). The median income was \$42,927 and the mean income was \$56,516. The income ranges \$15,000 to \$24,999 and \$50,000 to \$74,999 had percentages that were more than 10% higher than the state and county averages.

Table 14. Local Setting- Household Income

| Subject | Census Tract 9306, Caswell County | | Census Tract 9206.01, Person County | |
|---|--------------------------------------|-----------------------|--|-----------------------|
| | Households | | Households | |
| | Estimate | Margin of Error (+/-) | Estimate | Margin of Error (+/-) |
| Total | 1,821 | 190 | 2,088 | 150 |
| Less than \$10,000 | 6.0% | 6.2 | 2.2% | 2.1 |
| \$10,000 to \$14,999 | 9.6% | 5.4 | 5.3% | 4.5 |
| \$15,000 to \$24,999 | 12.0% | 4.8 | 24.8% | 7 |
| \$25,000 to \$34,999 | 9.3% | 4.6 | 10.8% | 5.8 |
| \$35,000 to \$49,999 | 11.4% | 5.1 | 14.5% | 5.5 |
| \$50,000 to \$74,999 | 19.1% | 7.2 | 21.6% | 7.3 |
| \$75,000 to \$99,999 | 15.5% | 7.1 | 12.9% | 5.7 |
| \$100,000 to \$149,999 | 10.8% | 5.4 | 4.7% | 4.1 |
| \$150,000 to \$199,999 | 3.5% | 3.8 | 1.7% | 2.3 |
| \$200,000 or more | 2.7% | 3.4 | 1.4% | 1.6 |
| Median income (dollars) | 55,795 | 15,776 | 42,927 | 12,697 |
| Mean income (dollars) | 62,498 | 10,639 | 56,516 | 10,442 |
| Source: US Census, 2013-2017 ACS 5-Year Estimates. All orange and bolded highlighted cells indicate a difference that is greater than 5% when compared to the state. All bolded and blue highlighted cells indicate a difference that is greater than 5% when compared to the county and the state. | | | | |

In the one-mile radius from the Quarry and Distribution Center, the household income range with the highest percent was less than \$75,000+ at 38%, followed by \$50,000-\$75,000 at 20%.

Table 15. Project Radius- Household Income

| Subject | 1-mile (Quarry and) Distribution Center | |
|--|--|---------|
| | Households | |
| | Estimate | Percent |
| Total | 70 | 100.0% |
| Less than \$15,000 | 9 | 12.0% |
| \$15,000 to \$25,000 | 8 | 12.0% |
| \$25,000 to \$50,000 | 13 | 18.0% |
| \$50,000 to \$75,000 | 14 | 20.0% |
| \$75,000+ | 27 | 38.0% |
| Source: EJSCREEN. US Census, 2013-2017 ACS 5-year Estimates | | |

Per Capita Income

Per Capita Income data was obtained through the Census Table B19301, Per Capita Income in the Past 12 Months (In 2017 Inflation-Adjusted Dollars), 2013-2017 American Community Survey 5-Year Estimates. The North Carolina per capita income estimate was \$28,123. The estimates for the counties are: \$21,692 in Caswell County and \$24,477 in Person County. The estimates for the census tracts are: \$22,753 (9306) and \$22,621 (9206.01). Both the county and the census tracts had a lower Per Capita Income compared to the state (Table 16).

The EJSCREEN analysis also provided per capita income estimates for the one-mile buffer surrounding facility sites. The buffer around the Quarry and Distribution Center has an estimated per capita income of \$30,248.

Table 16. Per Capita Income

| Location | Subject | | Per Capita Income in Last 12 Months (Dollars) |
|---|-------------------|---------------------|--|
| North Carolina | Per Capita Income | Estimate | \$28,123 |
| | | Margin of Error +/- | 130 |
| Caswell County | Per Capita Income | Estimate | \$21,692 |
| | | Margin of Error +/- | 1,521 |
| Person County | Per Capita Income | Estimate | \$24,477 |
| | | Margin of Error +/- | 1,776 |
| Census Tract 9306 Caswell County | Per Capita Income | Estimate | \$22,753 |
| | | Margin of Error +/- | 3,182 |
| Census Tract 9206.01 Person County | Per Capita Income | Estimate | \$22,621 |
| | | Margin of Error +/- | 4,352 |
| Project Area 1-mile Quarry and Distribution Center | Per Capita Income | Estimate | \$30,148 |
| | | Margin of Error +/- | *** |
| Source: American Community Survey 5-year Estimates, 2013-2017 | | | |

6 Limited English Proficiency (LEP)

Per the Safe Harbor Guidelines, should an LEP Group be identified during the permit application process, written translations of vital documents for each eligible LEP language group that constitutes five percent or includes 1,000 members (whichever is less) of the population of persons eligible to be served or likely to be affected or encountered. If there are fewer than 50 persons in a language group that reaches the five percent trigger, then DEQ will not translate vital written materials, but instead will provide written notice in the primary language of the LEP language group of the right to receive competent oral interpretation of those written materials, free of cost. The safe harbor provisions apply to the translation of written documents only. Safe

harbor guidelines are per the EPA guidance for LEP persons and implemented by DEQ when deemed appropriate.

Seven potential LEP language groups were identified during this initial screening of demographic data (Table 17). However, none of the language groups identified in this screening reached the 5% threshold. If larger LEP groups are identified during the site visit or specific translation requests are received, then DEQ will revisit the Safe Harbor Guidelines.

Table 17. Limited English Proficiency

| Language Spoken at Home | Census Tract 9306, Caswell County | | Census Tract 9206.01, Person County | |
|-------------------------------------|-----------------------------------|-----------------|-------------------------------------|-----------------|
| | Estimate | Margin of Error | Estimate | Margin of Error |
| Total: | 4,576 | +/-420 | 4,682 | +/-465 |
| Speak only English | 4,536 | +/-407 | 4,306 | +/-413 |
| Spanish or Spanish Creole: | 40 | +/-59 | 321 | +/-239 |
| Speak English "very well" | 14 | +/-22 | 219 | +/-158 |
| Speak English less than "very well" | 26 | +/-56 | 102 | +/-110 |
| German: | 0 | +/-12 | 0 | +/-12 |
| Speak English "very well" | 0 | +/-12 | 0 | +/-12 |
| Speak English less than "very well" | 0 | +/-12 | 0 | +/-12 |
| Vietnamese: | 0 | +/-12 | 0 | +/-12 |
| Speak English "very well" | 0 | +/-12 | 0 | +/-12 |
| Speak English less than "very well" | 0 | +/-12 | 0 | +/-12 |
| Tagalog: | 0 | +/-12 | 0 | +/-12 |
| Speak English "very well" | 0 | +/-12 | 0 | +/-12 |
| Speak English less than "very well" | 0 | +/-12 | 0 | +/-12 |

Source: American Community Survey 5-year Estimates, 2011-2015

7 County Health

The University of Wisconsin Population Health Institute, in collaboration with the Robert Wood Johnson Foundation, calculated a County Health Rankings system for all the States in the United States (www.countyhealthrankings.org). This ranking is based on health outcomes (such as lifespan and self-reported health status) and health factors (such as environmental, social and economic conditions). According to this 2021 report, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Caswell County ranks 73rd in health factors and 78th in health outcomes and Person County ranks 53rd in health factors and 73rd in health outcomes. (Figure 3).

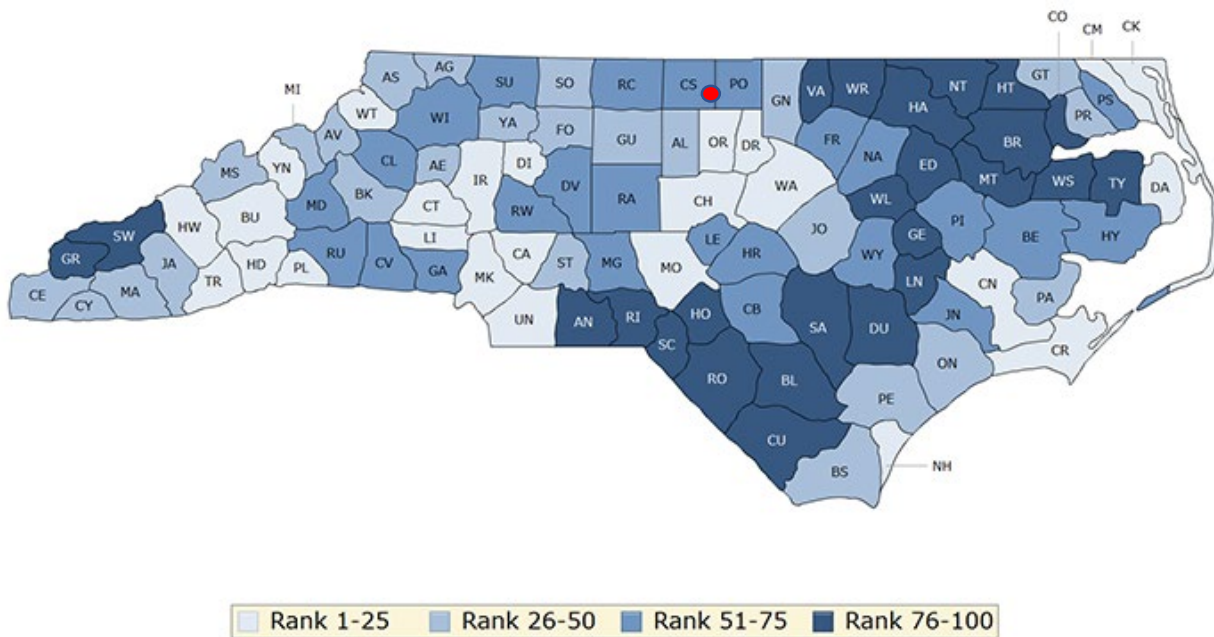


Figure 3. County Health Rankings for Health Factors in North Carolina provided by University of Wisconsin Public Health Institute.

According to the NC DEQ Community Mapping System Environmental Justice Tool, Table 18 demonstrates the rates of death due to various causes in the counties surrounding the proposed facility, as compared to the state.

Table 18. Health Outcomes

| Cause of Death | Caswell | Person | North Carolina |
|----------------------------|---------|--------|----------------|
| Cancer | 198.7 | 178.5 | 169.1 |
| Heart Disease | 169.6 | 155.6 | 163.7 |
| Stroke | 37.6 | 33.2 | 43.1 |
| Cardiovascular Disease | 218.8 | 200.9 | 221.9 |
| Diabetes | 27.9 | 29 | 22.8 |
| Source: NCDEQ 2020 EJ Tool | | | |

8 Local Sensitive Receptors

The Environmental Protection Agency suggests that sensitive receptors include, but are not limited to, hospitals, schools, daycare facilities, elderly housing, and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Extra care must be taken when dealing with contaminants and pollutants in close proximity to areas recognized as sensitive receptors. For instance, children and the elderly may have a higher risk of developing asthma from elevated levels of certain air pollutants than a healthy individual aged between 18 and 64.

Within the one-mile project radius from the Quarry and Distribution Center, the following potential sensitive receptors were identified (Figure 4)

- Bethel United Methodist Church
- Lea Bethel Baptist Church

Additional sensitive receptors may be identified during the permit application process, such as during the field reconnaissance visit or through public comment.

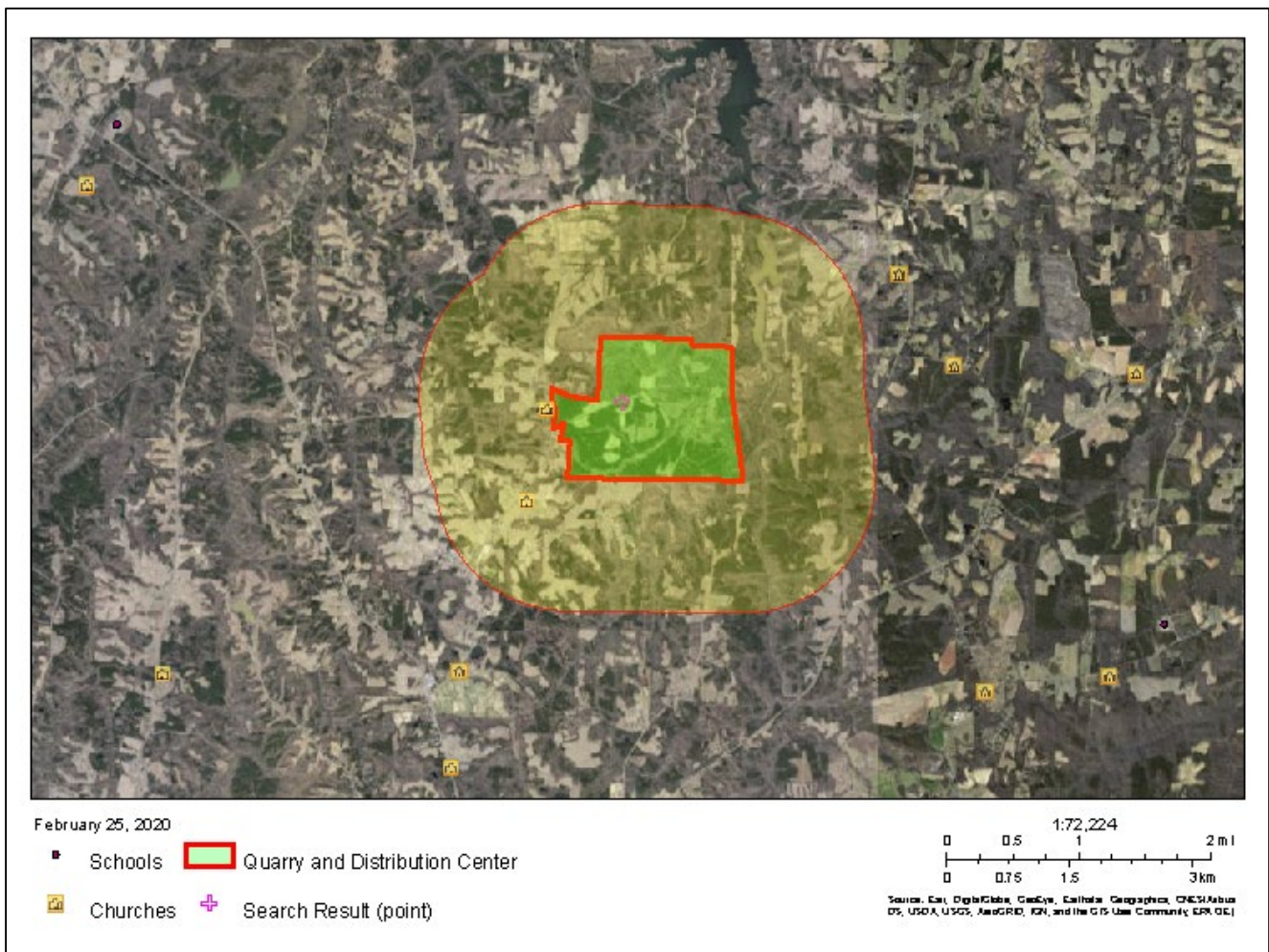


Figure 4. Sensitive receptors surrounding Quarry and Distribution Center

9 Local Industrial Sites

Within the one-mile radius, there are no other² facility permits or incident reports (as of August 4, 2021) (Figure 5).

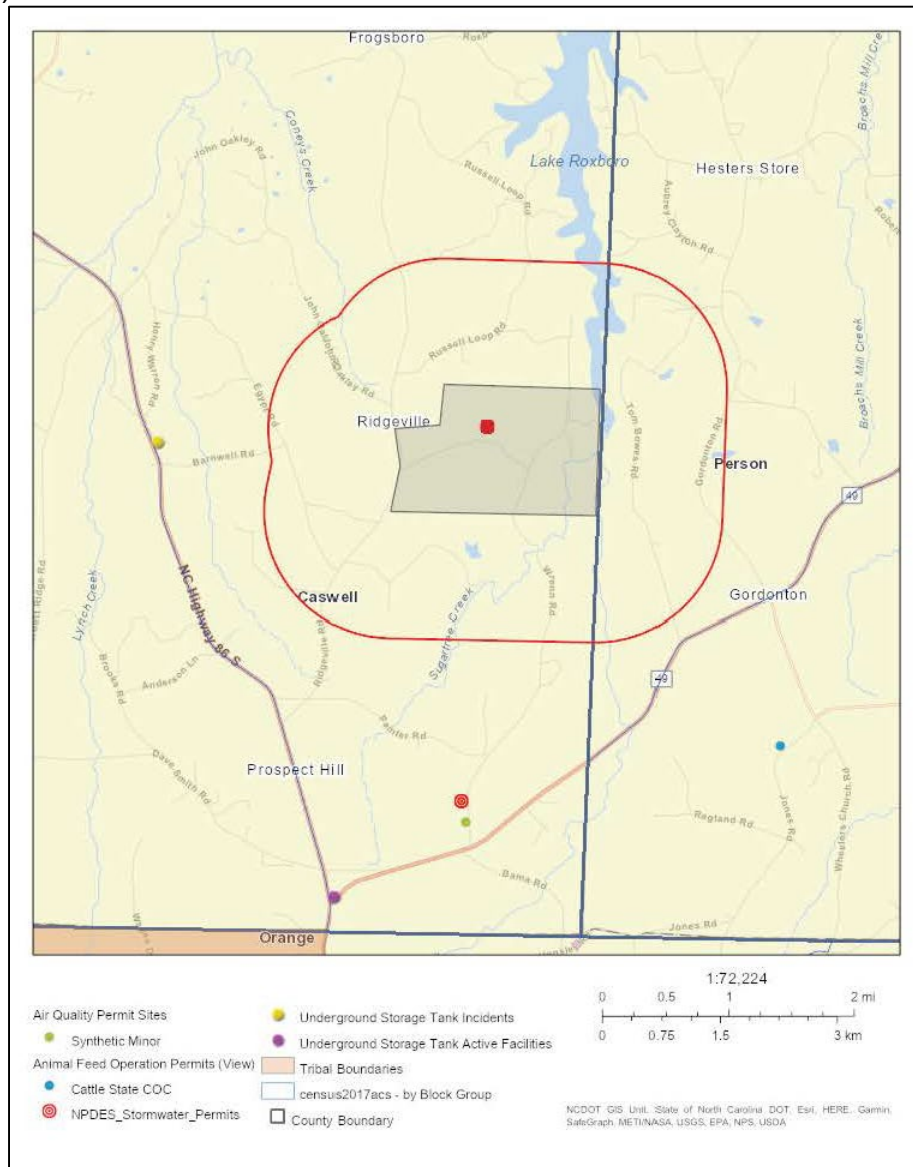


Figure 5. Permitted facilities and incidents with the one-mile radius surrounding the Quarry and Distribution Center.

² There is one NPDES Permit belonging to the facility itself.

10 Conclusion

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). This report examined the demographic and environmental conditions in the state of North Carolina, Caswell, and Person counties, census tracts 9306 and 9206.01, and the one-mile radius around the Carolina Sunrock LLC, proposed Quarry and Distribution Center Potential emissions rates outlined in the permit application and county level health data were also included, as well as data from the NCDEQ Community Mapping System.

It is important to keep in mind that based on the available data, the following limitations of this report: census data is from 2010 and may be outdated; the more recent census data through 2017 are estimates; EJSCREEN does not provide all of the data categories that were used in this analysis so the census tracts data and county data cannot be compared to the radius used surrounding the facility boundary for all criteria; census tracts can still be large areas and do not allow for exact locations of each population; some of the census tracts slightly overlap with the one-mile radius; and the Department cannot determine which populations may be located in that small amount of overlap around the facility.

The project area data from the census tracts and one-mile radius generally do not deviate from state estimates for race and ethnicity. The surrounding census tracts display a population of individuals over 65 years old that is higher than the state average.

Both of the census tracts display overall poverty estimates that are greater than 10% different than the state and the county. Both census tracts have the largest population within the \$50,000 to \$74,900 range for household income. The project radius estimate has the largest population falling in the \$75,000+ income bracket. Both census tracts display a per capita income lower than the state, and slightly lower than the county. The one-mile radius surrounding the Quarry and Distribution Center displays a per capita income estimate higher than the state.

Caswell County ranks 71th in health factors and 64th in health outcomes. Person County ranks 51st in health factors and 51st in health outcomes.

There were no permitted facilities or incidents within one mile of the proposed facility.

Based on this Draft EJ Report, the following outreach will be conducted:

- Extra attention will be given to ensure language data is accurate and that translation or interpretation will be considered if more LEP populations are identified at any point throughout the process.
- The list of sensitive receptors will be consulted while considering additional outreach options that may best fit this community's needs.
- Known community leaders will be consulted including community members, community groups who indicated significant interest during the 2020 permitting process.