

Carolina Sunrock, LLC Environmental Justice Snapshot (modified to correct errors in February 2020 version)

1 EJ Snapshot

The EJ Snapshot is an initial look at the demographics and socioeconomics of a facility's surrounding community area. This includes information within a radius determined by the North Carolina Department of Environmental Quality (Department or DEQ), race and ethnicity (decennial census year), poverty status, per capita income, and Ability to speak English (most current American Community Survey (ACS) census range), the current North Carolina Department of Commerce county tier, and presence of Native American territory. The EJ Snapshot does not include a reconnaissance of the community.

An EJ Snapshot will be conducted at the beginning of the application process when a full EJ Report is requested or to determine the need for a full EJ Report. This will be distributed to interested community members (if known) and posted to the DEQ website with the relevant permit application before the close of the public comment period. The primary goal is to encourage EJ Report comments and suggestions from the surrounding community, industry, and environmental groups throughout the comment period.

It is important to keep in mind, that based on the data available, the following limitations of this study exist: census data is from 2010 and may be outdated; the more recent American Community Survey data through 2017 are estimates; the U.S. EPA's EJSCREEN does not provide all of the data categories that were used in this analysis so the census tract and county data cannot be compared to the radius evaluating the facility boundary; census tracts can be large areas that do not identify exact locations of each population; some of the census tracts slightly overlap with the two-mile radius; and the Department cannot determine which populations are located within that small area of overlap.

The Department has assessed a snapshot of the demographic and socioeconomic data of the communities surrounding the two Carolina Sunrock LLC facilities to foster communication prior to the Division of Air Quality's Public Hearing for the permit application for the Asphalt/Concrete/Quarry facilities. Based on the results of this Snapshot and public comments received, a full EJ Report may be conducted prior to any final action taken by the Agency.

2 Environmental Justice Evaluation

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, Alamance and Person Counties, as well as census tracts, and the two-mile radius around the property boundary of the proposed Carolina Sunrock facilities. 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.

The Department has assessed the permit application and the potential impact on communities surrounding the requested permit application. Accordingly, the Environmental Justice Snapshot will include:

- Permit application submitted by Carolina Sunrock, LLC
- Modeled emissions rates
- Study of area demographics [determined by utilizing the US EPA Environmental Justice tool (EJSCREEN) <https://ejscreen.epa.gov/mapper/> and current, available census data. <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>
- Comparison of local area demographics to both county and statewide census data
- County health assessment
- Surrounding sensitive receptors
- Local industrial sites (using the NCDEQ Community Mapping System <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3cc212af8a0b8c8>).

Demographics (including race and ethnicity, poverty status, and per capita incomes) for Caswell, Person, and Alamance counties will be compared to the local (census tracts and project radius) level data 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 potential communities of concern:

- 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 and distribution center. They are approximately 9 miles apart (Figure 3).

The first proposed site, Carolina Sunrock LLC- Burlington North, will include a hot mix asphalt plant and concrete batch plant. 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, and No. 2/4 fuel oils. Particulate matter emissions from the mixer will be controlled by a bagfilter.

The plant will include 5 hot mix asphalt storage silos, each with loadouts, and Recycled Asphalt Pavement (RAP) crushing, screening and conveying system. The concrete batch plant is a truck mix plant rated at 120 cubic yards per hour maximum production capacity. Particulate emissions from the plant will be controlled by a bagfilter.

Expected actual and potential emissions of criteria and hazardous air pollutants (after emissions controls and permit limits are taken into account) are shown in Table 1.

Table 1. Facility Emissions Overview (Burlington North)

Pollutant	Expected Actual Emissions (tons/year)	Potential Emissions (with controls and permit limits, tons/year)
PM	33.92	34.08
PM ₁₀	17.96	18.01
SO ₂	27.79	31.15
NO _x	15.68	16.63
CO	33.61	33.85
VOC	12.05	12.06
HAP _{Total}	2.58	2.59
HAP _{Highest} (Formaldehyde)	0.80	0.80

The second proposed site, 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, and No. 2/4 fuel oils. 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 the table below.

Table 2. Facility Emissions Overview (Prospect Hill Quarry and Distribution Center)

Pollutant	Potential Emissions (with controls and permit limits, tons/year)
PM	94.43
PM ₁₀	46.26
PM _{2.5}	34.05
SO ₂	30.37
NO _x	45.26
CO	99.56
VOC	43.95
HAP _{Total}	9.78
HAP _{Highest} (Formaldehyde)	7.21

4 Geographic Area

The first proposed facility, Carolina Sunrock LLC- Burlington North, is located at 12971 S NC Highway 62, Burlington, NC 27127. The second proposed facility, Carolina Sunrock LLC- Prospect Hill Quarry and Distribution Center, is located at 1238 Wrenn Road Prospect Hill, NC 27314. The highest off-site ambient air impacts will occur at the plant fence line, and a one-mile radius was used to evaluate the local demographics and socioeconomics to ensure that the surrounding community was appropriately included. (Figure 1 and Figure 2).



Legend
[Red Outline] Carolina Sunrock LLC (Burlington North)

Figure 1. Facility location (Burlington North) with one-mile radius.

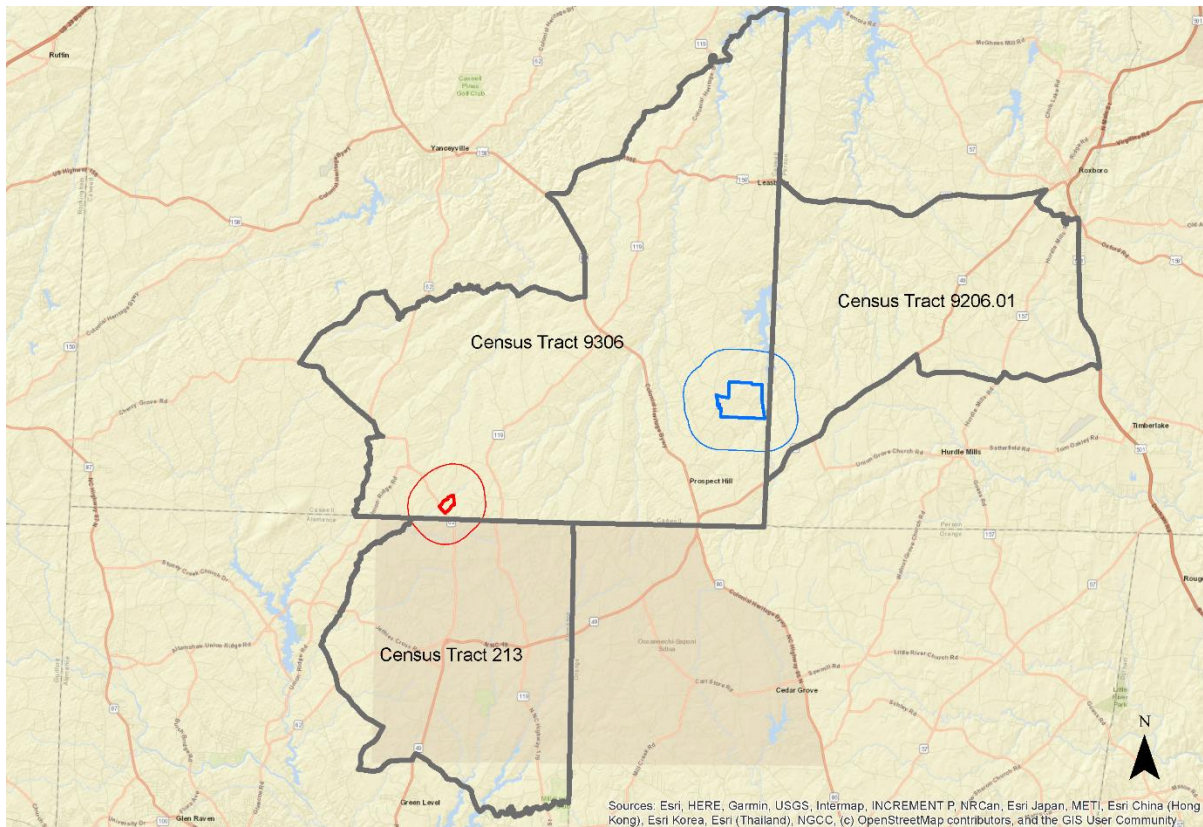


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[Blue Outline] Sunrock Quarry and Distribution Center

Figure 2. Facility location (Quarry and Distribution Center) with one-mile radius.

Regional Setting

Both facilities are located in Caswell County. Caswell County is designated as a Tier 1 county by the NC Department of Commerce. The one-mile buffer of the Burlington North facility enters Alamance County, which is designated as Tier 2. The one-mile buffer of the Quarry and Distribution Center enters Person County, which is designated as Tier 2. 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 radiuses used in this analysis are encompassed by three census tracts. Both facility sites fall in census tract 9306 in Caswell County, the one-mile buffer for the Burlington North facility enters census tract 213 in Alamance County, and the one-mile buffer for the Quarry and Distribution Center enters census tract 9206.01 in Person County (Figure 3). Census tracts are small, relatively permanent statistical subdivisions of a county with a unique numeric code (US Census Bureau). Census tract 213 in Alamance County encompasses land within the state designated tribal statistical area for the Occaneechi Band of the Saponi Nation.



Legend

- Sunrock Quarry and Distribution Center
- Carolina Sunrock LLC (Burlington North)

Figure 3. Census tracts surrounding facility location

Table 3. Regional Setting - Race and Ethnicity

Race and Ethnicity	North Carolina		Caswell County (Both facilities)		Person County (Quarry and Distribution Center)		Alamance County (Burlington North)	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Population	9,535,483	100	23,719	100.0	39,464	100.0	151,131	100.0
White	6,528,950	68.5	14,819	62.5	26,968	68.3	107,420	71.1
Black or African American	2,048,628	21.5	8,020	33.8	10,646	27.0	28,369	18.8
American Indian or Alaska Native	122,110	1.3	85	0.4	266	0.7	1,020	0.7
Asian	208,962	2.2	60	0.3	116	0.3	1,837	1.2
Native Hawaiian and Other Pacific Islander	6,604	0.1	4	0.0	4	0.0	58	0.0
Some other Race	414,030	4.3	350	1.5	868	2.2	9,291	6.1
Two or More Races	206,199	2.2	381	1.6	596	1.5	3,136	2.1
HISPANIC OR LATINO (of any race)	800,120	8.4	744	3.1	1,593	4.0	16,639	11.0
Mexican	486,960	5.1	607	2.6	1,195	3.0	11,664	7.7
Puerto Rican	71,800	0.8	42	0.2	94	0.3	861	0.6
Cuban	18,079	2.3	17	0.1	33	0.1	186	0.1
Other Hispanic or Latino	223,281	2.3	78	0.3	271	0.7	3,928	2.6

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

Table 4. Local Setting – Race and Ethnicity

Race and Ethnicity	Project Area-1 Mile (Quarry and Distribution Center)		Project Area 1-Mile (Burlington North)		Census Tract 9306 Caswell County (Both facilities)		Census Tract 9206.01 Person County (Quarry and Distribution Center)		Census Tract 213 Alamance County (Burlington North)	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Population	183	100.0	310	100.0	4,790	100.0	5,133	100.0	6,057	100.0
White	149	81.0	206	67.0	3,367	70.3	3,518	68.5	3,743	61.8
Black or African American	27	15.0	89	29.0	1,238	25.8	1,243	24.2	1,925	31.8
American Indian or Alaska Native	0	0.0	3	1.0	20	0.2	25	0.5	65	1.1
Asian	0	0.0	0	0.0	8	0.2	6	0.1	15	0.2
Native Hawaiian and Other Pacific Islander	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Some other Race	4	2.0	5	2.0	84	1.8	270	5.3	188	3.1
Two or More Races	2	1.0	6	2.0	73	1.5	71	1.4	121	2.0
HISPANIC OR LATINO (of any race)	6	3.0	11	4.0	151	3.2	413	8.0	353	5.8
Mexican					113	2.4	360	7.0	236	3.9
Puerto Rican					17	0.4	13	0.3	22	0.4
Cuban					0	0.0	2	0.0	7	0.1
Other Hispanic or Latino					21	0.4	38	0.7	88	1.5

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

Table 5. Poverty Status – Regional Setting

Subject	North Carolina						Caswell County (Both facilities)					
	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	16.10	0.2	21,870	156	4,666	650	21.30	2.9
AGE												
Under 18	2,256,186	1,865	516,821	9,185	22.90	0.6	4,233	76	1,449	312	34.20	7.2
18 to 64	6,053,546	1,090	923,859	9,663	15.30	0.4	13,368	144	2,471	395	18.50	2.9
65 years and over	1,474,006	881	139,191	2,754	9.40	0.2	4,269	56	746	199	17.50	4.6
SEX												
Male	4,733,269	2,259	694,126	9,539	14.70	0.2	10,709	189	2,255	378	21.10	3.5
Female	5,050,469	2,443	885,745	10,217	17.50	0.2	11,161	115	2,411	368	21.60	3.3
RACE AND HISPANIC OR LATINO ORIGIN												
White	6,776,691	7,591	845,573	13,639	12.50	0.2	13,814	220	2,263	503	16.40	3.7
Black or African American	2,077,559	4,736	517,071	8,162	24.90	0.4	7,188	227	1,950	365	27.10	5.1
American Indian and Alaska Native	114,751	1,804	30,017	1,757	26.20	1.5	23	26	4	7	17.40	36.9
Asian	262,596	1,970	33,282	2,248	12.70	0.9	130	22	29	41	22.30	31.8
Native Hawaiian and Other Pacific Islander	5,886	537	1,097	297	18.60	4.9	32	38	0	22	0.00	52.4
Some other race	305,431	7,334	97,609	5,276	32.00	1.4	429	184	254	204	59.20	32.2
Two or more races	240,824	5,455	55,222	2,570	22.90	1	254	162	166	165	65.40	43.5
Hispanic or Latino	894,810	1,312	268,985	7,035	30.10	0.8	806	27	452	160	56.10	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				

Subject	Person County (Quarry and Distribution Center)						Alamance County (Burlington North)					
	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	38,697	190	6,998	992	18.10	2.6	153,649	450	26,996	1,473	17.60	1
AGE												
Under 18	8,342	118	2,429	466	29.10	5.6	35,598	152	9,296	798	26.10	2.3
18 to 64	23,570	99	3,793	620	16.10	2.6	93,298	383	15,152	932	16.20	1
65 years and over	6,785	132	776	200	11.40	2.9	24,753	194	2,548	338	10.30	1.4
SEX												
Male	18,680	138	3,045	548	16.30	2.9	73,579	326	11,355	838	15.40	1.1
Female	20,017	155	3,953	598	19.70	3	80,070	333	15,641	895	19.50	1.1
RACE AND HISPANIC OR LATINO ORIGIN												
White	26,330	313	3,397	836	12.90	3.1	107,948	1,261	14,381	1,398	13.30	1.3
Black or African American	10,515	298	2,950	613	28.10	5.8	29,487	432	7,707	794	26.10	2.6
American Indian and Alaska Native	322	80	30	41	9.30	11.5	525	195	184	158	35.00	20.5
Asian	60	51	0	25	0.00	38.3	2,202	227	95	80	4.30	3.7
Native Hawaiian and Other Pacific Islander	0	25	0	25	-	**	61	23	1	2	1.60	3.2
Some other race	722	317	496	330	68.70	26.2	9,498	1,226	3,518	794	37.00	7.4
Two or more races	748	282	125	96	16.70	13	3,928	617	1,110	412	28.30	8.6
Hispanic or Latino	1,605	31	607	319	37.80	19.8	19,127	109	6,157	1,007	32.20	5.2
All individuals below:												
50 percent of poverty level	2,537	659					10,201	1,191				
125 percent of poverty level	9,575	1,029					36,793	1,785				
150 percent of poverty level	11,526	1,005					44,823	1,900				
185 percent of poverty level	14,694	1,196					57,083	1,664				
200 percent of poverty level	15,165	1,233					61,966	1,721				

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

Table 6. Poverty Status – Local Setting

Subject	Census Tract 9306, Caswell County (Both facilities)						Census Tract 9206.01, Person County (Quarry and Distribution Center)					
	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	22.30	7.5	5,264	587	1,283	556	24.40	9.1
AGE												
Under 18	1,129	210	449	239	39.80	17.2	1,085	335	644	321	59.40	19.5
18 to 64	3,053	354	587	224	19.20	6.9	3,089	367	549	292	17.80	8.8
65 years and over	774	124	70	59	9.00	7.6	1,090	154	90	66	8.30	6.3
SEX												
Male	2,556	270	616	289	24.10	10.6	2,491	322	572	237	23.00	8.2
Female	2,400	293	490	191	20.40	7.4	2,773	365	711	353	25.60	11.1
RACE AND HISPANIC OR LATINO ORIGIN												
White	3,648	380	705	303	19.30	8	3,443	526	643	401	18.70	10.4
Black or African American	1,289	312	382	261	29.60	17.5	1,275	301	367	233	28.80	14.2
American Indian and Alaska Native	0	17	0	17	-	**	0	17	0	17	-	**
Asian	8	16	8	16	100.00	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	76.30	48
Two or more races	11	22	11	22	100.00	89.4	188	177	0	17	0.00	15.8
Hispanic or Latino	33	39	23	32	69.70	50.5	557	311	273	341	49.00	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				

Census Tract 213. Alamance County (Burlington North)						
Subject	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	6,076	268	857	156	14.10	2.4
AGE						
Under 18	1,365	126	292	90	21.40	6
18 to 64	3,657	179	433	80	11.80	2.1
65 years and over	1,054	77	132	41	12.50	4
SEX						
Male	2,975	154	412	90	13.80	2.9
Female	3,101	176	445	86	14.40	2.5
RACE AND HISPANIC OR LATINO ORIGIN						
White	3,871	204	439	97	11.30	2.5
Black or African American	1,740	175	319	92	18.30	4.5
American Indian and Alaska Native	42	23	0	17	0.00	45.8
Asian	60	49	9	8	15.00	15.8
Native Hawaiian and Other Pacific Islander	6	10	1	2	16.70	43.4
Some other race	188	85	70	65	37.20	25.7
Two or more races	169	58	19	16	11.20	8.5
Hispanic or Latino	324	103	82	66	25.30	16.9
All individuals below:						
50 percent of poverty level	329	78				
125 percent of poverty level	1,212	172				
150 percent of poverty level	1,502	193				
185 percent of poverty level	1,851	208				
200 percent of poverty level	2,053	213				
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						

Table 7. 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 (Both facilities)	Per Capita Income	Estimate	\$21,692
		Margin of Error +/-	1,521
Person County (Quarry and Distribution Center)	Per Capita Income	Estimate	\$24,477
		Margin of Error +/-	1,776
Alamance County (Burlington North)	Per Capita Income	Estimate	\$25,157
		Margin of Error +/-	738
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 +/-	***
Project Area 1-mile Burlington North	Per Capita Income	Estimate	\$21,076
		Margin of Error +/-	***
Source: American Community Survey 5-year Estimates, 2013-2017			

5 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. However, none of the language groups identified 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 8. Limited English Proficiency

Language Spoken at Home	Census Tract 9306, Caswell County (Both facilities)		Census Tract 9206.01, Person County (Quarry and Distribution Center)		Census Tract 213, Alamance County (Burlington North)	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total:	4,576	+/-420	4,682	+/-465	5,720	+/-287
Speak only English	4,536	+/-407	4,306	+/-413	5,301	+/-251
Spanish or Spanish Creole:	40	+/-59	321	+/-239	330	+/-99
Speak English "very well"	14	+/-22	219	+/-158	237	+/-75
Speak English less than "very well"	26	+/-56	102	+/-110	93	+/-44
German:	0	+/-12	0	+/-12	47	+/-51
Speak English "very well"	0	+/-12	0	+/-12	17	+/-18
Speak English less than "very well"	0	+/-12	0	+/-12	30	+/-34
Vietnamese:	0	+/-12	0	+/-12	7	+/-8
Speak English "very well"	0	+/-12	0	+/-12	3	+/-4
Speak English less than "very well"	0	+/-12	0	+/-12	4	+/-5
Tagalog:	0	+/-12	0	+/-12	11	+/-11
Speak English "very well"	0	+/-12	0	+/-12	8	+/-10
Speak English less than "very well"	0	+/-12	0	+/-12	3	+/-6
Source: American Community Survey 5-year Estimates, 2011-2015						

6. 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 2019 report, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Caswell County ranks 71th in health factors and 64th in health outcomes. Person County ranks 51st in health factors and 51st in health outcomes. Alamance County ranks 53rd in health factors and 33rd in health outcomes.

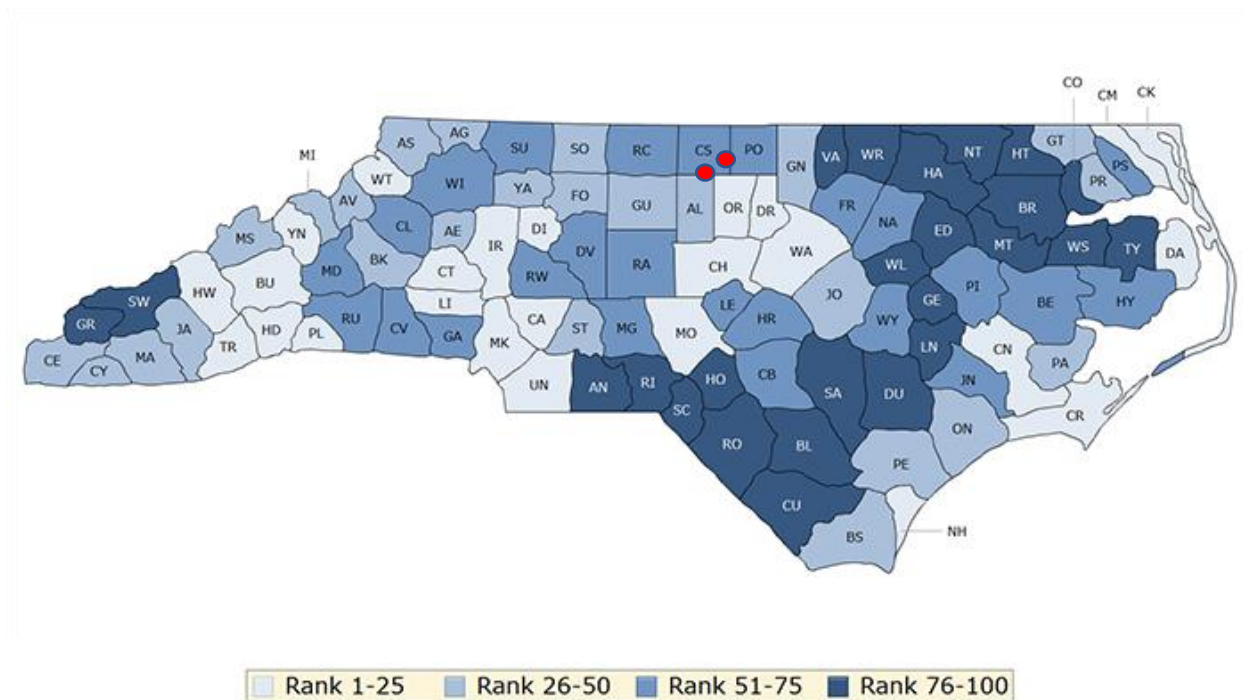


Figure 4. County Health Rankings for Health Factors in North Carolina provided by University of Wisconsin Public Health Institute.

6 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.

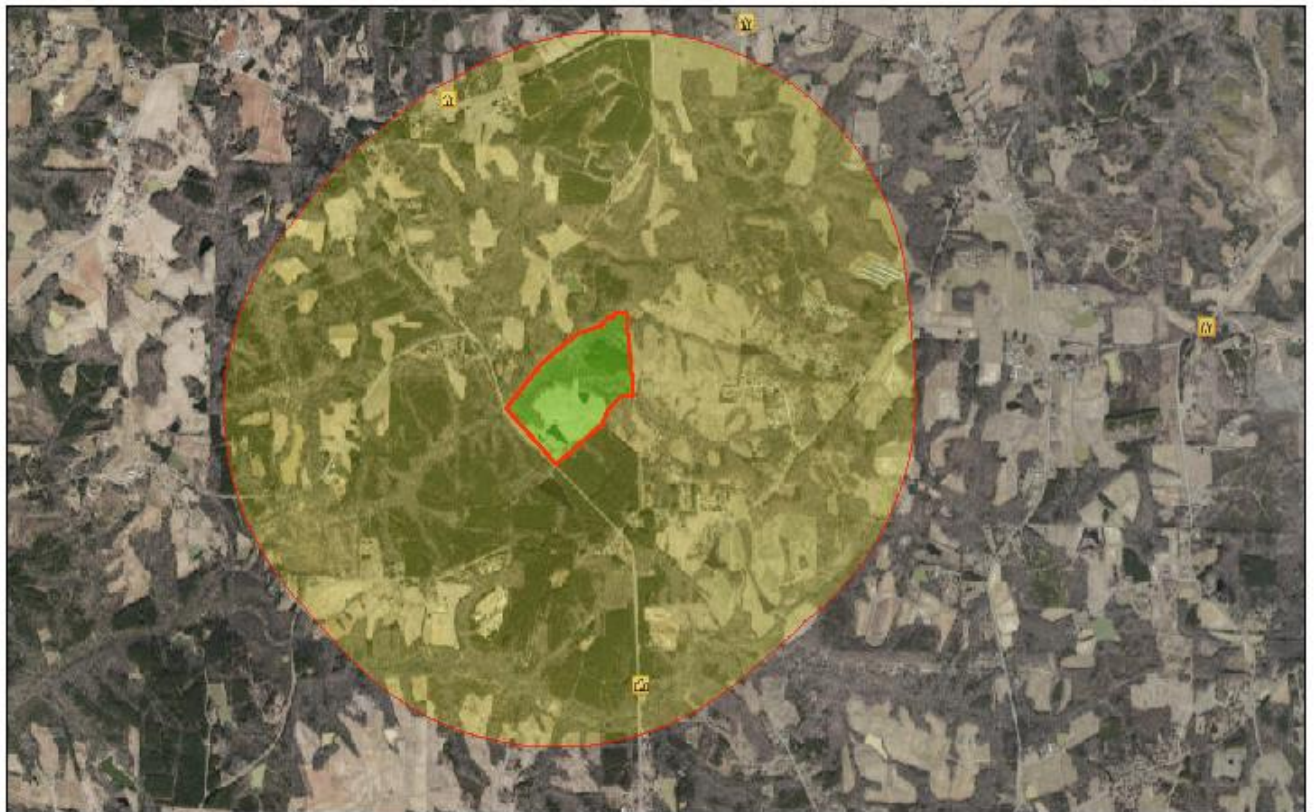
Within the one-mile project radius from the Burlington North facility, the following potential sensitive receptors were identified (Figure 5):

- Bethel United Church of Christ
- Living Home Church




Within the one-mile project radius from the Quarry and Distribution Center, the following potential sensitive receptors were identified (Figure 6)

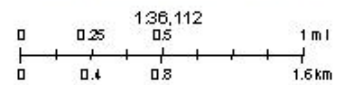
- Bethel United Methodist Church
- Lea Bethel Baptist Church

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



February 20, 2020

-  Churches
-  Burlington North
-  Hospitals



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community (2019)

Figure 5. Sensitive receptors surrounding Burlington North facility



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- Schools
- Quarry and Distribution Center
- 🏠 Churches
- ✚ Search Result (point)

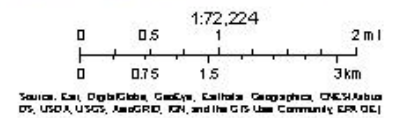


Figure 6. Sensitive receptors surrounding Quarry and Distribution Center

8. Local Industrial Sites

Within both of the one-mile radiuses, there are no facility permits or incident reports (as of February 25, 2020).

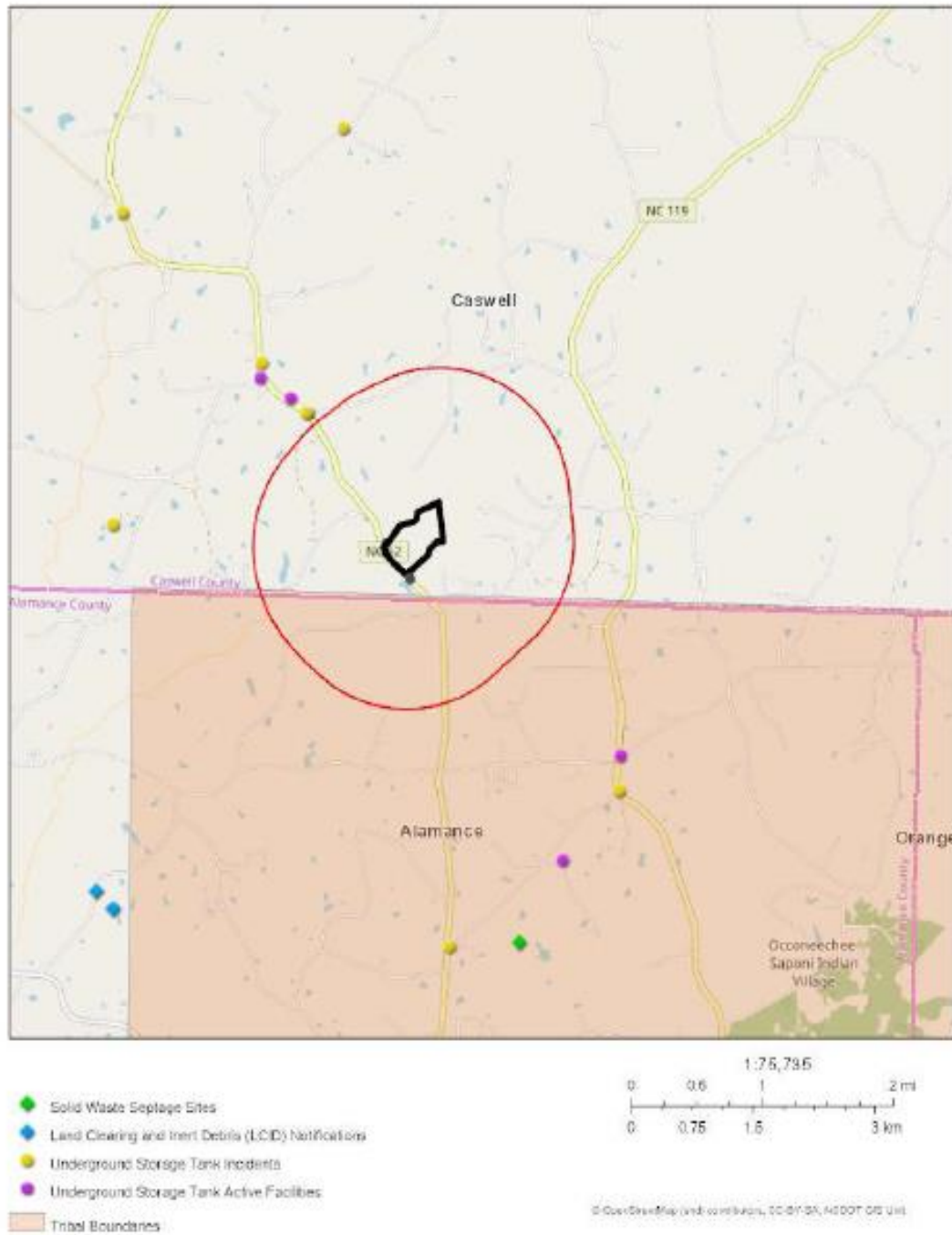


Figure 7. Permitted facilities and incidents with the one-mile radius surrounding the Burlington North facility

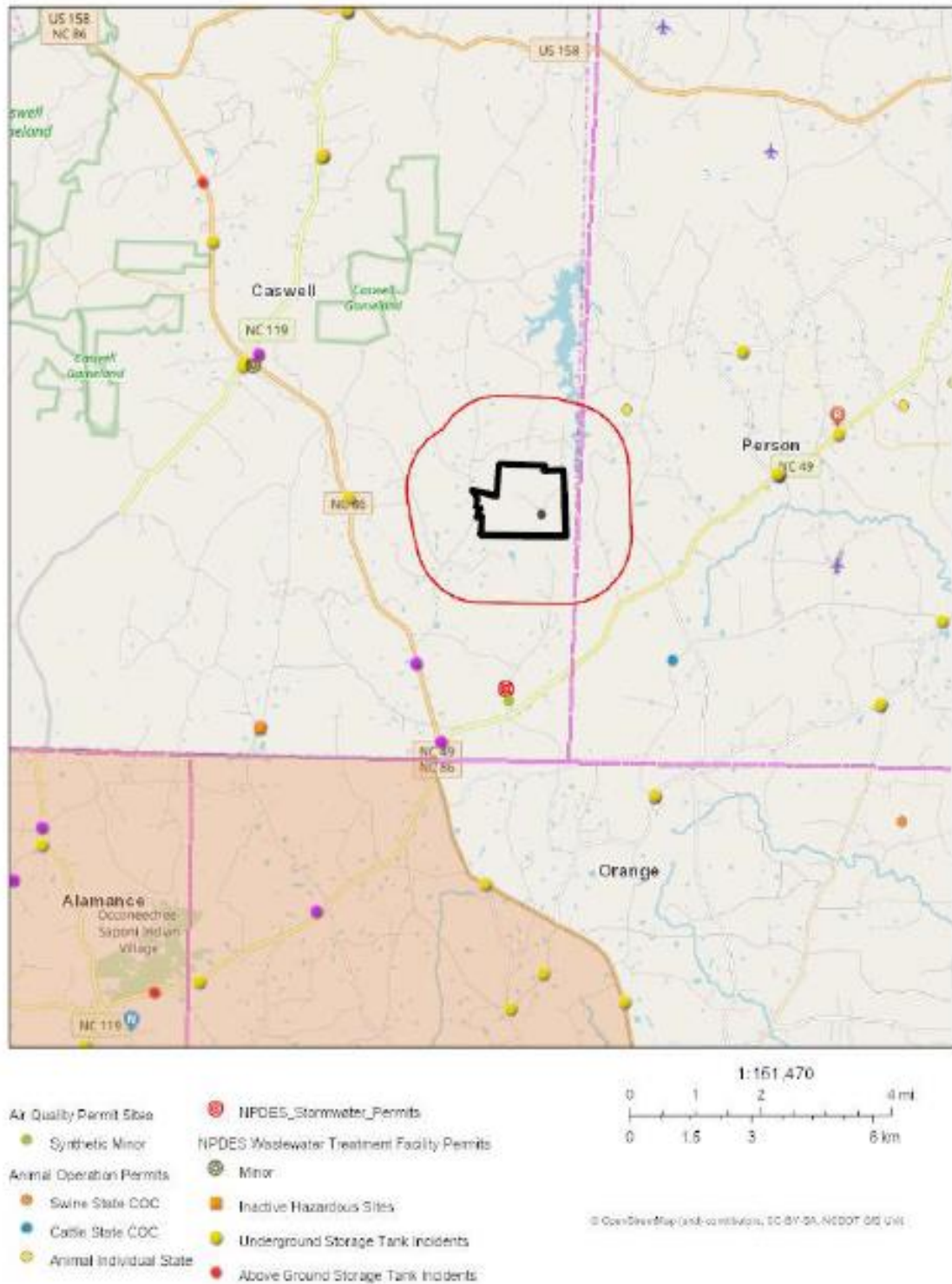


Figure 8. Permitted facilities and incidents with the one-mile radius surrounding the Quarry and Distribution Center

9. Conclusion

The EJ Snapshot is an initial evaluation of the demographics and socioeconomics of the community area surrounding a proposed facility or permit modification. This includes information within a determined radius by the Department (one mile for this project) on race and ethnicity (decennial census year), poverty, per capita income, and ability to speak English (most current ACS census range), current NC Commerce county tier, and presence or absence of American Indian Tribal areas. The EJ Snapshot does not include a reconnaissance of the community. The proposed Carolina Sunrock LLC is in an area designated with moderate health factors and outcomes in comparison to other areas of the State. It is also within state designated tribal statistical areas for the Occaneechi Band of the Saponi Nation (Section 6).

The study area generally display slightly higher percentages of African-American residents compared to the state. The study area also generally exhibits higher poverty levels than both the county and the state. Four potential LEP language groups were identified during this initial screening, however, none of the language groups identified reached the 5% threshold for Safe Harbor Guidelines.

Additional outreach will be conducted with the Occaneechi Band of the Saponi Nation to keep them informed throughout the permitting process. Extra attention will also 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. Finally, the list of sensitive receptors will be consulted while considering additional outreach options that may best fit this community's needs.