

Appendix J
Environmental Justice Populations

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Appendix J Environmental Justice Populations

This appendix identifies minority and low-income populations that are located in the potential project areas for the Strategic Petroleum Reserve (SPR) expansion. To identify these populations, DOE followed Council on Environmental Quality (CEQ) guidance (CEQ 1997). CEQ defines the following groups as minorities:

- Black/African American,
- Asian,
- Native Hawaiian or Other Pacific Islander,
- American Indian or Alaska Native, and
- Hispanic populations (regardless of race).

According to CEQ, a minority population exists where either:

- The minority population of the affected area exceeds 50 percent; or
- The minority population percentage of the affected area is meaningfully greater than the minority population percentage in the general population or other appropriate unit of geographic analysis.

CEQ defines low-income by using the annual statistical poverty thresholds from the U.S. Census Bureau. A low-income population exists when the low-income population percentage in the area of interest is “meaningfully greater” than the low-income population in the general population. For purposes of the analysis of low-income and minority populations, DOE used both the United States and the state in which a city, town, or county/parish is located as the “general population.” In other words, a population is low-income if its percentage of low-income residents is greater than the percentage in either the United States, its state, or both. In addition, DOE used the population below the poverty level to define low-income population.

DOE’s methodology to identify the potential environmental justice populations consisted of the following three steps, which adhere to CEQ guidance:

- DOE first identified the potential project areas. DOE identified the potentially affected areas for each proposed new and expansion site by mapping the location of the proposed storage site, support facilities, raw water intake, pipelines, and oil distribution facilities and identifying their corresponding counties or parishes. Cities and towns within 5 miles (8 kilometers) of the proposed storage sites and within 2 miles (3.2 kilometers) associated infrastructure were also included. DOE used this assumption because potential significant adverse environmental and human health impacts generally would be limited to this area. If DOE had found any potential high and adverse impacts, DOE would have considered examining broader population areas. For this analysis, DOE did not include towns with a population of fewer than 1,000 people. DOE supplemented this information with Census block information in a few instances where there were no towns of greater than 1,000 people near a proposed facility.
- DOE gathered 2000 Census data for each of the Census tracts and jurisdictions in the potential project areas and for the States of Louisiana, Mississippi, and Texas. These data predate Hurricanes Katrina and Rita, which may have had systematic demographic effects on many of the potentially affected areas. DOE could not avoid this limitation because detailed post-hurricane data are not yet available.

- Using the Census data, DOE compared the minority and low-income populations in each potentially affected jurisdiction to the same data for the United States and the relevant state. To be conservative, this analysis identifies any percentages that were greater than that of the United States or the state as potential environmental justice populations, no matter how small the difference. DOE calculated the total minority group percentage of the population by subtracting the Census-reported percentage of the white, non-Hispanic population from 100 percent.

The following tables J-1 through J-7 present the results for each proposed new and expansion site and its associated infrastructure. Data for the new sites are presented in alphabetical order, followed by the expansion sites in alphabetical order. The data for states and the United States are italicized for comparison. The minority and low-income populations, according to CEQ definitions, are identified in bold font, that is, where the percentages are greater than the relevant state or the nation.

Table J-8 summarizes the results. It shows that each proposed site has at least two types of environmental justice populations. For example low-income populations and Black or African American populations, as defined by CEQ, are located in the potentially affected areas for each site and its associated infrastructure.

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Table J-1: Demographic Overview of Bruinsburg Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Brookhaven city	9,861	52.9	47.6	50.9	0.1	0.6	0	0.2	0.7	0.8	26.9
Census Tract 9503 ^b	6,335	90.3	9.8	89.5	0.1	0.1	0	0.1	0.4	0.9	34.7
Port Gibson city	1,840	80.6	19.4	80.0	0.1	0.2	0	0.1	0.3	0.7	31.3
Adams County	34,340	54.3	46.0	52.8	0.1	0.2	0	0.2	0.6	0.8	25.9
Claiborne County	11,831	84.9	15.2	84.1	0.1	0.1	0	0.1	0.4	0.8	32.4
Jefferson County	9,740	87.0	13.1	86.5	0.1	0.1	0	0	0.2	0.7	36.0
Lincoln County	33,166	31.1	69.4	29.7	0.2	0.2	0	0.2	0.4	0.7	19.2
Wilkinson County	10,312	68.9	31.2	68.2	0.1	0	0	0.1	0.4	0.4	37.7
<i>State of Mississippi</i>	<i>2,844,658</i>	<i>39.3</i>	<i>61.4</i>	<i>36.3</i>	<i>0.4</i>	<i>0.7</i>	<i>0</i>	<i>0.5</i>	<i>0.7</i>	<i>1.4</i>	<i>19.9</i>
Baton Rouge city	227,818	56.0	45.7	50.0	0.2	2.6	0	0.5	1.0	1.7	24.0
Port Allen city	5,278	55.6	45.0	54.0	0.2	0	0	0.3	0.5	1.0	24.2
East Baton Rouge Parish	412,852	44.9	56.2	40.1	0.2	2.1	0	0.5	0.9	1.8	17.9
East Feliciana Parish	21,360	48.6	51.8	47.1	0.2	0.2	0	0.2	0.5	0.7	23.0
West Baton Rouge Parish	21,601	38.0	62.8	35.5	0.2	0.2	0	0.5	0.8	1.4	17.0
West Feliciana Parish	15,111	51.9	48.6	50.5	0.2	0.2	0	0.0	0.4	1.0	19.9
<i>State of Louisiana</i>	<i>4,468,976</i>	<i>37.5</i>	<i>63.9</i>	<i>32.5</i>	<i>0.6</i>	<i>1.2</i>	<i>0</i>	<i>0.7</i>	<i>1.1</i>	<i>2.4</i>	<i>19.6</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

^b Census Tract 9503 contains both Port Gibson and Bruinsburg. Data for Bruinsburg only is not available.

Table J-2: Demographic Overview of Chacahoula Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level^a (%)
Houma city	32,393	33.4	67.5	26.1	3.5	0.7	0	0.7	1.6	1.8	20.8
Thibodaux city	14,431	36.5	64.0	33.8	0.4	0.6	0	0.3	0.9	1.0	25.1
Lafourche Parish	89,974	17.8	82.9	12.6	2.3	0.7	0	0.6	1.0	1.4	16.5
St James Parish	21,216	50.3	50.0	49.4	0.1	0	0	0.1	0.4	0.6	20.7
Terrebonne Parish	104,503	26.8	74.1	17.8	5.3	0.8	0	0.5	1.5	1.6	19.1
<i>State of Louisiana</i>	<i>4,468,976</i>	<i>37.5</i>	<i>63.9</i>	<i>32.5</i>	<i>0.6</i>	<i>1.2</i>	<i>0</i>	<i>0.7</i>	<i>1.1</i>	<i>2.4</i>	<i>19.6</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-3: Demographic Overview of Richton Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Columbia city	6,603	37.8	62.6	35.6	0.4	0.4	0	0.2	0.8	0.8	29.7
Hattiesburg city	46,664	51.4	49.9	47.3	0.2	1.2	0	0.5	0.8	1.4	28.3
McComb city	13,337	60.1	40.1	58.4	0.1	0.5	0	0.4	0.5	0.8	31.0
Pascagoula city	26,200	34.8	67.2	29.0	0.2	1.0	0	1.7	1.0	3.9	20.7
Richton town	1,038	24.1	76.0	21.2	0.7	0.2	0.5	0.5	1.0	1.0	31.9
Tylertown town	1,910	43.8	56.3	41.4	0.2	0.8	0	0.5	0.8	1.1	32.3
Amite County	13,418	43.8	56.4	42.7	0.1	0.1	0	0.2	0.5	0.8	22.6
Forrest County	72,604	36.3	64.3	33.6	0.2	0.7	0	0.4	0.8	1.3	22.5
George County	19,144	11.3	89.4	8.8	0.2	0.2	0	0.8	0.6	1.6	16.7
Greene County	13,299	27.5	72.8	26.2	0.2	0.1	0	0.3	0.4	0.8	19.6
Jackson County	131,420	25.8	75.4	20.9	0.3	1.6	0	0.7	1.1	2.1	12.7
Lamar County	39,070	15.3	85.3	12.9	0.2	0.7	0	0.3	0.6	1.1	13.3
Marion County	25,595	33.3	67.0	31.9	0.2	0.2	0	0.1	0.6	0.6	24.8
Perry County	12,138	24.3	76.2	22.6	0.3	0.1	0	0.3	0.5	1.0	22.0
Pike County	38,940	49.0	51.2	47.5	0.2	0.3	0	0.2	0.5	0.7	25.3
Walthall County	15,156	45.8	54.6	44.1	0.1	0.2	0	0.3	0.7	1.3	27.8
<i>State of Mississippi</i>	<i>2,844,658</i>	<i>39.3</i>	<i>61.4</i>	<i>36.3</i>	<i>0.4</i>	<i>0.7</i>	<i>0</i>	<i>0.5</i>	<i>0.7</i>	<i>1.4</i>	<i>19.9</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-4: Demographic Overview of Stratton Ridge Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Clute city	10,424	57.6	64.2	7.7	0.8	1.0	0	23.0	3.4	48.1	18.2
Freeport city	12,708	66.8	61.6	13.4	0.6	0.4	0	20.9	3.2	52.0	22.9
Oyster Creek city	1,192	24.1	87.0	3.6	1.6	0.4	0	5.3	2.1	16.9	19.2
Texas City	41,521	49.9	60.7	27.5	0.5	0.9	0	8.2	2.1	20.5	14.9
Brazoria County	241,767	34.6	77.1	8.5	0.5	2.0	0	9.6	2.2	22.8	10.2
Galveston County	250,158	36.9	72.7	15.4	0.5	2.1	0	7.2	2.1	18.0	13.2
<i>State of Texas</i>	<i>20,851,820</i>	<i>47.6</i>	<i>71.0</i>	<i>11.5</i>	<i>0.6</i>	<i>2.7</i>	<i>0.1</i>	<i>11.7</i>	<i>2.5</i>	<i>32.0</i>	<i>15.4</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-5: Demographic Overview of Bayou Choctaw Expansion Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Addis town	2,238	24.7	76.1	23.0	0.2	0.1	0	0	0.5	1.0	17.5
Plaquemine city	7,064	51.3	49.3	49.6	0.2	0.3	0	0.1	0.6	1.1	24.4
Iberville Parish	33,320	51.4	49.3	49.7	0.2	0.3	0	0.1	0.5	1.0	23.1
<i>State of Louisiana</i>	<i>4,468,976</i>	<i>37.5</i>	<i>63.9</i>	<i>32.5</i>	<i>0.6</i>	<i>1.2</i>	<i>0</i>	<i>0.7</i>	<i>1.1</i>	<i>2.4</i>	<i>19.6</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-6: Demographic Overview of Big Hill Expansion Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Winnie CDP	2,914	16.6	87.3	5.3	0.7	0.3	0	5.6	0.9	10.1	14.3
Stowell CDP	1,572	42.5	59.8	30.9	0.6	0	0	7.8	0.8	10.4	18.8
Port Arthur city	57,755	68.2	39.0	43.7	0.5	5.9	0	8.9	2.1	17.5	25.2
Jefferson County	252,051	48.2	57.2	33.7	0.3	2.9	0	4.3	1.5	10.5	17.4
<i>State of Texas</i>	<i>20,851,820</i>	<i>47.6</i>	<i>71.0</i>	<i>11.5</i>	<i>0.6</i>	<i>2.7</i>	<i>0.1</i>	<i>11.7</i>	<i>2.5</i>	<i>32.0</i>	<i>15.4</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-7: Demographic Overview of West Hackberry Expansion Site Project Area

Location	Total Population	Percent Minority (%)	White (%)	Black or African American (%)	American Indian or Alaska Native (%)	Asian (%)	Native Hawaiian or Other Pacific Islander (%)	Persons Reporting Some Other Race (%)	Persons Reporting Two or More Races (%)	Percentage of Individuals of Hispanic or Latino Origin (any race) (%)	Percent Below Poverty Level ^a (%)
Hackberry	1,699	3.0	97.5	0.5	0.3	0.7	0	0.5	0.5	1.1	9.2
Cameron Parish	9,991	7.5	93.7	3.9	0.4	0.4	0	0.9	0.7	2.2	12.3
Calcasieu Parish	183,577	27.2	73.6	24.0	0.3	0.6	0	0.4	1.0	1.3	15.4
<i>State of Louisiana</i>	<i>4,468,976</i>	<i>37.5</i>	<i>63.9</i>	<i>32.5</i>	<i>0.6</i>	<i>1.2</i>	<i>0</i>	<i>0.7</i>	<i>1.1</i>	<i>2.4</i>	<i>19.6</i>
<i>United States</i>	<i>281,421,906</i>	<i>30.9</i>	<i>75.1</i>	<i>12.3</i>	<i>0.9</i>	<i>3.6</i>	<i>0.1</i>	<i>5.5</i>	<i>2.4</i>	<i>12.5</i>	<i>12.4</i>

Source: U.S. Census Bureau 2000a; U.S. Census Bureau 2000b.

^a Data for poverty levels is for 1999.

Table J-8: Summary of Potential Environmental Justice Populations

Proposed Site	Potentially Affected States	Overall Minority	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian or Other Pacific Islander	Hispanic or Latino Origin	Low Income
Bruinsburg	Louisiana & Mississippi	✓	✓		✓			✓
Chacahoula	Louisiana	✓	✓	✓				✓
Richton	Mississippi	✓	✓	✓	✓	✓	✓	✓
Stratton Ridge	Texas	✓	✓	✓			✓	✓
Bayou Choctaw	Louisiana	✓	✓					✓
Big Hill	Texas	✓	✓	✓	✓		✓	✓
West Hackberry	Louisiana		✓					✓