



GEORGIA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Protection Branch

Ambient Monitoring Program

Documentation for Second Near-Road Monitoring Site

1.0 Introduction

On February 9, 2010, EPA revised the nitrogen dioxide (NO₂) National Ambient Air Quality Standard and monitoring requirements. Included in these revisions is the establishment of near-road NO₂ monitoring sites. The monitors are to be set up in CBSAs with 500,000 or more population (additional monitor with CBSA population above 2,500,000), annual average daily traffic counts of 250,000 vehicles or greater, and represent a microscale (no more than 50 meters from the edge of the nearest traffic lane) (75 FR 6474). With these requirements, GA EPD would need to have two near-road NO₂ monitors in the Atlanta-Sandy Springs-Marietta MSA and one near-road NO₂ monitor in the Augusta-Richmond County, GA-SC MSA. According to the U.S. Census Bureau (<http://www.census.gov/compendia/statab/cats/population.html>), the Atlanta-Sandy Springs-Marietta MSA had a 2010 population of 5,268,860, and the Augusta-Richmond County, GA-SC MSA had a 2010 population of 556,877. On October 5, 2012, EPA proposed that the first phase of site establishment would be January 1, 2014. The second phase of site establishment would be January 1, 2015, and the third phase would be January 1, 2017 (Docket# EPA-HQ-OAR-2012-0486). GA EPD began operating the initial near-road monitoring site (Georgia Tech, 13-121-0056) in the Atlanta-Sandy Springs-Marietta MSA in 2014. This document provides the supporting information necessary to show that GA EPD has found a suitable location for the establishment of the second near-road monitoring site in the Atlanta-Sandy Springs-Marietta MSA (to be established by January 1, 2015). The near-road monitoring site in the Augusta-Richmond County, GA-SC MSA will be set up according to the above proposed schedule (January 1, 2017).

To provide the essential information for setting up the second near-road monitoring site in the Atlanta-Sandy Springs-Marietta MSA, the EPA's 'Near-Road NO₂ Monitoring Technical Assistance Document' dated June 2012 was used for guidance. As per Section 15 of this TAD, GA EPD proposes the DMRC site (13-089-0003) as the second near-road site. The DMRC site is currently GA EPD's long-standing criteria lead site (established July 1986), and serves as the NCore lead monitor for the nearby South DeKalb site (13-089-0002). It is located at the Georgia Regional Hospital at Atlanta, 3073 Panthersville Road, Decatur, DeKalb County 30034. The site is accessible from Panthersville Road, and provides a large area for expansion of a shelter to house monitors. The DMRC site was chosen for multiple reasons. This site is in an area that represents a different fleet mix than GA EPD's first near-road site. The first site is located along a downtown corridor where heavy duty trucks are not allowed to pass, whereas the DMRC site is located along the perimeter of the city where both light and heavy duty vehicles are allowed. In addition, the DMRC site is located approximately one mile from the South DeKalb site (13-089-0002), which is located approximately 580 meters from Interstate 285 (Figure 1). The South DeKalb site is the area-wide NO₂ site, with the highest NO₂ concentrations collected, located in an urban area, and representing an urban spatial scale. The South DeKalb site also collects data samples for many other pollutants as part of the National Core (NCore) Multipollutant Monitoring Network. By placing the second near-road monitors at the DMRC site, the South DeKalb and DMRC sites can be used to represent a gradient to study pollutants at different distances from a heavily traveled thoroughfare. Pollutants of interest that GA EPD could compare would include volatile organic compounds (i.e. Benzene, 1,3-Butadiene) that would be fuel combustion by-products, as well as black carbon. In addition, the DMRC site is located in an area that is surrounded by schools, hospitals, and residential neighborhoods. In determining population exposure, the DMRC site location would provide data about nearby traffic affecting children, hospital patients, and a variety of residents of all ages. The following sections are provided to address the points shown in EPA's 'Near-Road NO₂ Monitoring Technical Assistance Document'.



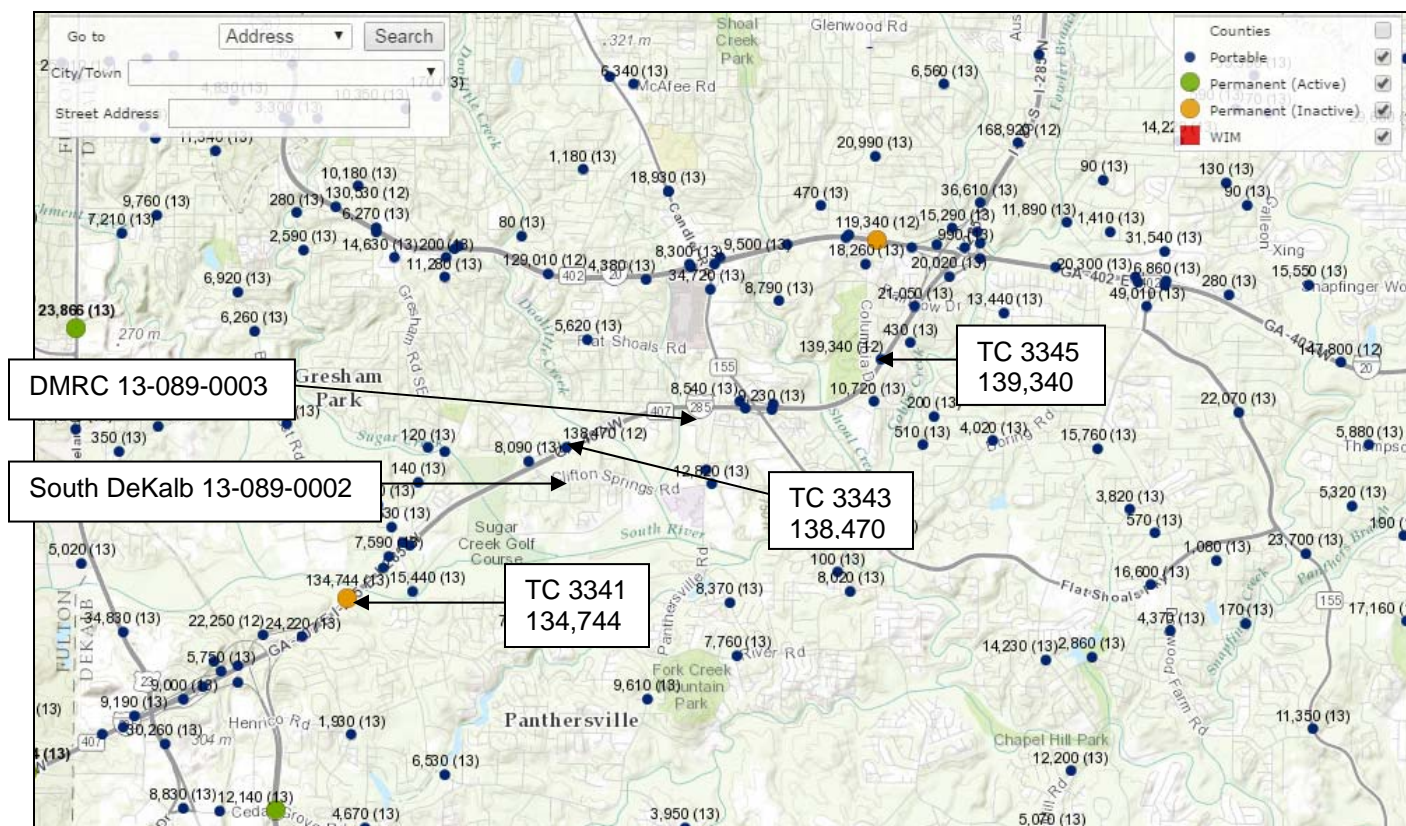
Figure 1: Distances for DMRC and South DeKalb Sites

2.0 Second Near-Road Site Selection

As discussed in the 'Near-Road NO₂ Monitoring Technical Assistance Document' dated June 2012, when selecting the second near-road monitoring site, it could be beneficial for the second site to be differentiated from the first near-road monitoring site by certain factors affecting traffic emissions and/or pollutant transport. These factors could include collecting data from a different interstate, fleet mix, congestion patterns, terrain, or geographic area. The following sections discuss these factors for GA EPD's site selection of the second near-road monitoring site at the DMRC site (13-089-0003).

2.1 Fleet Mix

The Georgia Department of Transportation's (GA DOT) website (<http://geocounts.com/gdot/>) was searched in order to find traffic information near the DMRC site. Traffic counter data, including annual average daily traffic (AADT), as well as truck percentages, were acquired to calculate the fleet equivalent annual average daily traffic (FE AADT) for this area. The following map shows the location of traffic counters in relation to the DMRC site and the South DeKalb site along Interstate 285. The permanent traffic counter (TC) closest to the DMRC site is 3341, and the portable sites are 3343 and 3345. According to this website, TC 3341 had an AADT of 134,744, TC 3343 had an AADT of 138,470, and TC 3345 had an AADT of 139,340 for 2013.



<http://geocounts.com/gdot/>

Figure 2: Traffic Flow and Traffic Counter Locations Map near the DMRC Site

The GA DOT website was investigated to determine the FE AADT for the area along Interstate 285 near the DMRC site. To determine the FE AADT value for each road segment, the formula given in the 'Near-Road NO₂ Monitoring Technical Assistance Document' was used. The formula is:

$$\text{Fleet-Equivalent (FE) AADT} = (\text{AADT} - \text{HDc}) + (\text{HDm} * \text{HDc})$$

where AADT is the total traffic volume count for a particular road segment, the HDc variable is the total number of heavy-duty vehicles for a particular road segment, and the HDm variable is a multiplier that represents the heavy-duty to light-duty NO_x emission ratio for a particular road segment

For the 'HDm', the national default value of 10 was used.

To get a general idea of the traffic counts with available truck percentage data in the area, data from 2011 through 2013 was examined. Therefore, the following table shows data from all three years (2011-2013). According to the GA DOT website, the truck percentage data was available at the permanent traffic counter closest to the DMRC site for 2012 only. This is TC 3341, which in 2012 had an AADT of 146,000 and a truck percentage of 13.13%. When the daily traffic is adjusted for heavy duty vehicles, the FE AADT is 318,528 for TC 3341. This FE AADT count is ranked number ten for the 2012 data. The following table shows this information, as well as information for the top ten traffic counters that had truck percentage data available, and therefore FE AADT information could be calculated for 2011 through 2013.

Georgia Department of Transportation, Office of Transportation Data, <u>2011 Truck Percentages</u>						Sorted by FE-AADT		
Rank	COUNTY	TC	Location	Avg Truck%	AADT	Number of Trucks (HDc)	FE AADT (AADT-HDc)+(HDm*HDc)	YEAR
1	GWINNETT	6287	I-85NB:btwn Jimmy Carter exit & Indian Trail exit	9.1	285,530	25,983	519,379	2011
2	COBB	2749	I-75 near Bells Ferry Rd; between SR 5 (exit267) & I-575 (exit268)	11.3	217,560	24,584	438,819	2011
3	FULTON	5474	I-75/I-85 at Grady Curve	4.4	284,920	12,536	397,748	2011
4	DEKALB	3374	I-285:@Shallowford Rd	8.7	208,330	18,125	371,452	2011
5	COBB	2373	I-285:@Orchard Rd	14.1	158,680	22,374	360,045	2011
6	DEKALB	3354	I-285 btwn Memorial Dr & Church St MP 40	9.8	174,680	17,119	328,748	2011
7	GWINNETT	305	I-85NB:btwn Lawrenceville-Suwanee Rd and I-85/1985 split	13.2	148,180	19,560	324,218	2011
8	FULTON	5534	I-285:bn I-85 & Washington Rd CR1289	16	130,880	20,941	319,347	2011
9	HENRY	412	I-75:bn I-675 & Hudson Bridge Rd	12.9	145,530	18,773	314,490	2011
10	GWINNETT	298	I-85 Btwn SR316 & SR120	12	145,490	17,459	302,619	2011
Georgia Department of Transportation, Office of Transportation Data, <u>2012 Truck Percentages</u>						Sorted by FE-AADT		
Rank	COUNTY	TC	Location	Avg Truck%	AADT	Number of Trucks	FE-AADT	YEAR
1	GWINNETT	6287	I-85/SR403 Btwn Jimmy Carter & Indian Trail exits	9.02	276,840	24971	501579	2012
2	COBB	2749	I-75 near Bells Ferry Rd. bn SR 5 (Exit 267) & I-575	10.82	219,180	23715	432617	2012
3	FULTON	5474	I-75/I-85 @Grady Curve	4.22	291,150	12287	401729	2012
4	CLAYTON	1194	I-75: bn Forest Pkwy SR331 & I-285	9.2	193,440	17796	353608	2012
5	FULTON	5542	I-285:bn I-20 & SR8	14.27	151,240	21582	345478	2012
6	COBB	2373	I-285 @Orchard Rd	13.66	152,810	20874	340675	2012
7	FULTON	5534	I-285:bn I-85 & Washington Rd CR1389	17.2	130,610	22465	332794	2012
8	DEKALB	3363	I-285/SR407:bn N'Lake & Chamblee-Tucker @Henderson Mill Rd.	8.84	182,340	16119	327410	2012
9	DEKALB	3354	I-285/SR407 bn Memorial Dr & Church St MP 40.4	9.66	175,050	16910	327238	2012
10	DEKALB	3341	I-285/SR407 bn Bouldercrest Rd & I-675	13.13	146,000	19170	318528	2012
			(permanent traffic counter 3341 near DMRC site)					
Georgia Department of Transportation, Office of Transportation Data, <u>2013 Truck Percentages</u>						Sorted by FE-AADT		
Rank	County	TC	Location	Avg Truck %	AADT	Number of Trucks	FE-AADT	YEAR
1	GWINNETT	6287	I-85/SR403 Btwn Jimmy Carter & Indian Trail exits	8.9	278,410	24778	501416	2013
2	DEKALB	3374	I-285/SR407 @N Shallowford Rd, Atlanta, DeKalb Co.	8.8	207,560	18265	371948	2013
3	CLAYTON	1194	I-75: bn Forest Pkwy SR331 & I-285	9.2	197,160	18139	360408	2013
4	COBB	2373	I-285 @Orchard Rd	13.8	157,510	21736	353137	2013
5	DEKALB	3354	I-285/SR407 bn Memorial Dr & Church St MP 40.4	9.9	179,400	17761	339245	2013
6	FULTON	5534	I-285:bn I-85 & Washington Rd CR1389	17.1	132,660	22685	336824	2013
7	GWINNETT	298	I-85: S of SR-120 between SR-316 and SR-120	12.2	150,900	18410	316588	2013
8	CLAYTON	1192	I-75: bn US19/41 & Forest Pkwy/Farmer Market exit	8.7	177,210	15417	315965	2013
9	GWINNETT	305	I-85: S of I-85/I-985 split, Suwannee, Gwinnett Co.	11.4	151,710	17295	307364	2013
10	HENRY	412	I-75:bn I-675 & Hudson Bridge Rd	12.4	142,290	17644	301086	2013
(Georgia DOT did not provide 2013 %Truck count data for traffic counters: Cobb 2749, Fulton 5474. These counters were used in 2011 and 2012 tables.								
FE-AADT = fleet equivalent for both total traffic volume and fleet mix				Note: National default of 10 used for HDm				

Table 1: Top Ten FE AADT Counts for 2011 through 2013

2.2 Congestion

To determine the congestion pattern for the area along Interstate 285 near the DMRC site, the GA DOT website (<http://app.skycomp.com/skycomp2/generateExportableData.do>) was used. The level of service (LOS) values were found for clockwise and counterclockwise, three timeframes in the morning and three timeframes in the evening. Therefore, there were six values for each road segment per year, depending on time of day and direction of traffic. The segment that pertains mainly to the DMRC site would be between Rte 155 and Bouldercrest Rd on the table below. The LOS for this segment was B or C, depending on the time of day and direction of traffic.

Survey Year	Road	Direction	Segment Start Location	Segment End Location	Facility ID	Facility Lane Miles	Start Time	End Time	Average Density	LOS
2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	06:30:00	07:30:00	20	C
2010	I-285	C	I-20	RTE 155	370	7.40	06:30:00	07:30:00	14	B
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	06:30:00	07:30:00	16	B
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	06:30:00	07:30:00	15	B
2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	07:30:00	08:30:00	23	C
2010	I-285	C	I-20	RTE 155	370	7.40	07:30:00	08:30:00	18	B
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	07:30:00	08:30:00	19	C
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	07:30:00	08:30:00	15	B
2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	08:30:00	09:30:00	21	C
2010	I-285	C	I-20	RTE 155	370	7.40	08:30:00	09:30:00	17	B
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	08:30:00	09:30:00	17	B
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	08:30:00	09:30:00	14	B
2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	16:00:00	17:00:00	30	D
2010	I-285	C	I-20	RTE 155	370	7.40	16:00:00	17:00:00	21	C
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	16:00:00	17:00:00	23	C
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	16:00:00	17:00:00	15	B
2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	17:00:00	18:00:00	27	D
2010	I-285	C	I-20	RTE 155	370	7.40	17:00:00	18:00:00	22	C
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	17:00:00	18:00:00	22	C
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	17:00:00	18:00:00	17	B

2010	I-285	C	SR 260 (GLENWOOD RD)	I-20	368	6.46	18:00:00	19:00:00	23	C
2010	I-285	C	I-20	RTE 155	370	7.40	18:00:00	19:00:00	18	B
2010	I-285	C	RTE 155	BOULDERCREST RD	372	11.20	18:00:00	19:00:00	17	B
2010	I-285	C	BOULDERCREST RD	US 23/SR 42	374	8.82	18:00:00	19:00:00	15	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	06:30:00	07:30:00	25	C
2010	I-285	X	I-20	RTE 155	371	7.60	06:30:00	07:30:00	19	C
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	06:30:00	07:30:00	21	C
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	06:30:00	07:30:00	12	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	07:30:00	08:30:00	28	D
2010	I-285	X	I-20	RTE 155	371	7.60	07:30:00	08:30:00	20	C
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	07:30:00	08:30:00	20	C
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	07:30:00	08:30:00	14	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	08:30:00	09:30:00	22	C
2010	I-285	X	I-20	RTE 155	371	7.60	08:30:00	09:30:00	18	B
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	08:30:00	09:30:00	16	B
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	08:30:00	09:30:00	13	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	16:00:00	17:00:00	25	C
2010	I-285	X	I-20	RTE 155	371	7.60	16:00:00	17:00:00	26	C
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	16:00:00	17:00:00	21	C
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	16:00:00	17:00:00	16	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	17:00:00	18:00:00	47	F
2010	I-285	X	I-20	RTE 155	371	7.60	17:00:00	18:00:00	26	C
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	17:00:00	18:00:00	21	C
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	17:00:00	18:00:00	16	B
2010	I-285	X	SR 260 (GLENWOOD RD)	I-20	369	7.14	18:00:00	19:00:00	31	D
2010	I-285	X	I-20	RTE 155	371	7.60	18:00:00	19:00:00	19	C
2010	I-285	X	RTE 155	BOULDERCREST RD	373	11.20	18:00:00	19:00:00	16	B
2010	I-285	X	BOULDERCREST RD	US 23/SR 42	375	8.82	18:00:00	19:00:00	13	B

<http://app.skycomp.com/skycomp2/generateExportableData.do>

Table 2: Congestion for Road Segments in Vicinity of Proposed Near-Road Site

2.3 Roadway Design

The DMRC proposed near-road monitoring site roadway design is 'nearly at-grade' with the surrounding terrain. Generally, the roadway surface is the same elevation as the surrounding terrain, as can be seen in the following photos (Figure 3) taken from Google Earth. These photos are facing the site, from Interstate 285. Generally, the roadway design and adjacent roadside area along this road segment are relatively flat, with gently rolling hills.

The roadway is a controlled access roadway. It is a divided highway that has no adjoining property with driveways accessing the road segment, and the traffic is free-flowing with no traffic signals or intersections causing traffic to stop. There are on/off-ramps approximately 370 meters downwind of the site. There is a secondary roadway bridge approximately 175 meters downwind of the site (Figure 4 below photos).





Figure 3: Photos Showing Proposed Near-Road Site Adjacent to Interstate 285

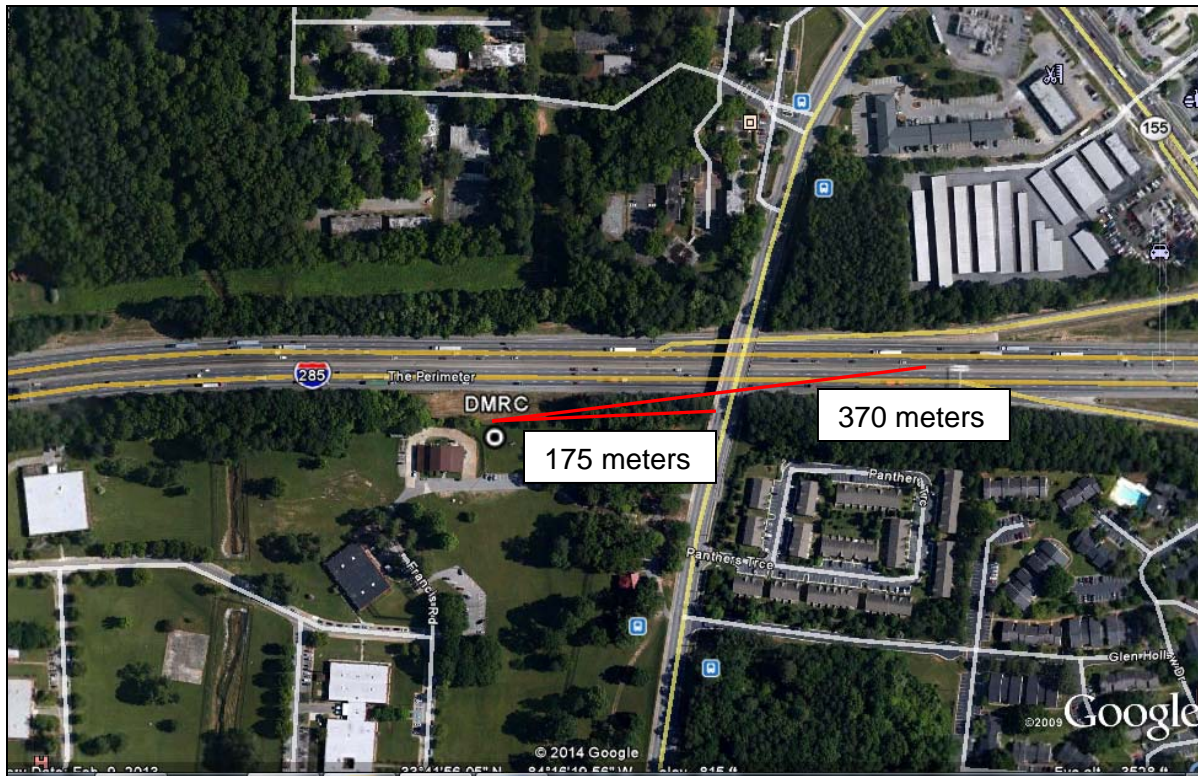


Figure 4: Approximate Distances of Nearby Bridge and Ramps in Relation to Site

The area for the proposed near-road site is located on Interstate 285, along the east side of the perimeter around Atlanta. The following maps show the location of the proposed site along I-285, north of Interstate 675 and south of Interstate 20.

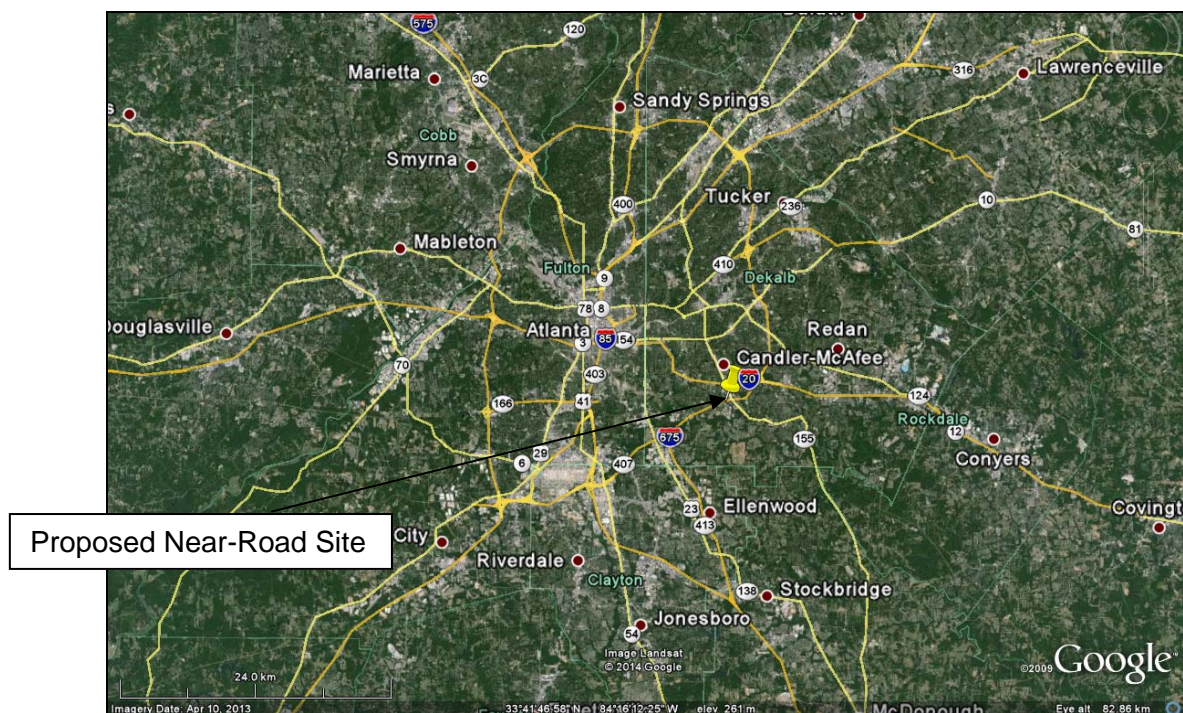


Figure 5: Map of Proposed Site Situated on the East Side of Interstate 285

The next map shows a closer view of the area surrounding the proposed near-road site along I-285, circumventing Atlanta.

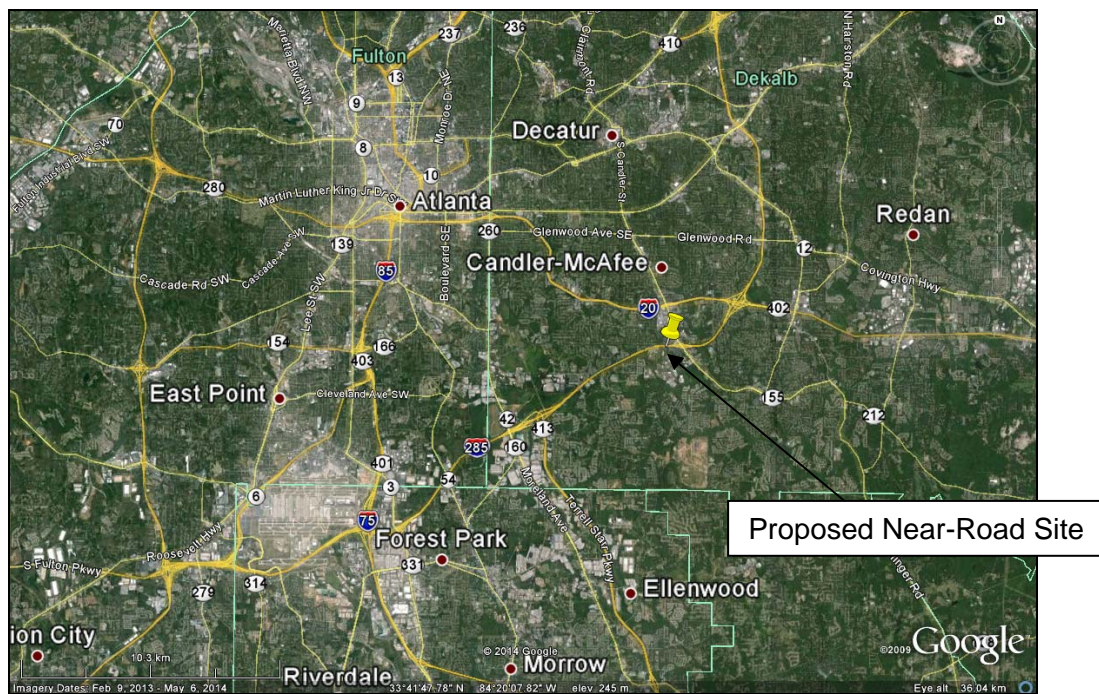
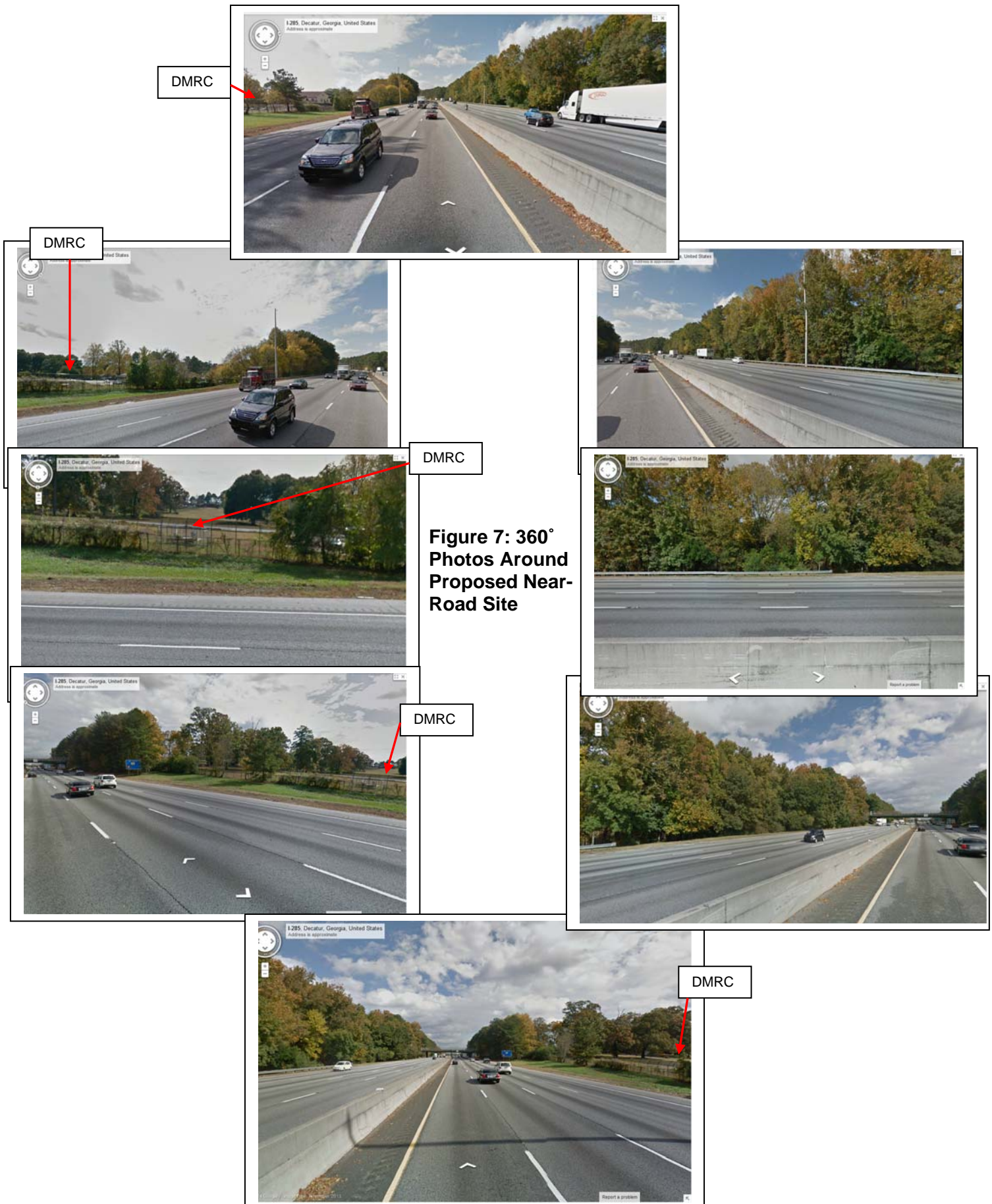


Figure 6: Closer View of Proposed Site on East Side of Interstate 285

2.4 Roadside Structures

At the proposed near-road air monitoring site, there is a chain link fence that separates Interstate 285 from the proposed site. There are no physical barriers separating the location where the sampling probe would be placed and the adjacent roadway that would interfere with air flow. To enable unrestricted air flow, the sampling probe could be placed on the chain-link fence. Any trees or shrubs that impede air flow or conflict with placement of monitoring shelter would be removed as necessary. The following pictures, taken from Google Earth, show a 360 degree view of the road segment, including both sides of Interstate 285.



To detail the roadside structures, the follow paragraph and map describe the area surrounding the proposed near-road site. The approximate measurements and map were obtained from Google Earth. There is a highway divider between the Eastbound and Westbound traffic that is approximately 3 to 4 feet high. The Georgia Regional Hospital is located approximately 25 meters to the Southwest. Approximately 78 meters to the North, on the opposite side of the interstate, there is a stand of mature trees. There are smaller trees and bushes approximately 15 meters and 11 meters to the Northwest and Northeast, respectively. There are clumps of trees around the area where the sampling platform is located: approximately 50 meters to the Northwest, 60 meters to the Northeast, 37 meters to the South/Southeast, 85 meters to the Southeast, and 72 meters to the Southwest. There are bushes and small trees around the site that may need to be trimmed or removed. However, there is ample room for placement of the sampling probe on the fence to collect data from the roadway. The following map is a visual for the above measurements.

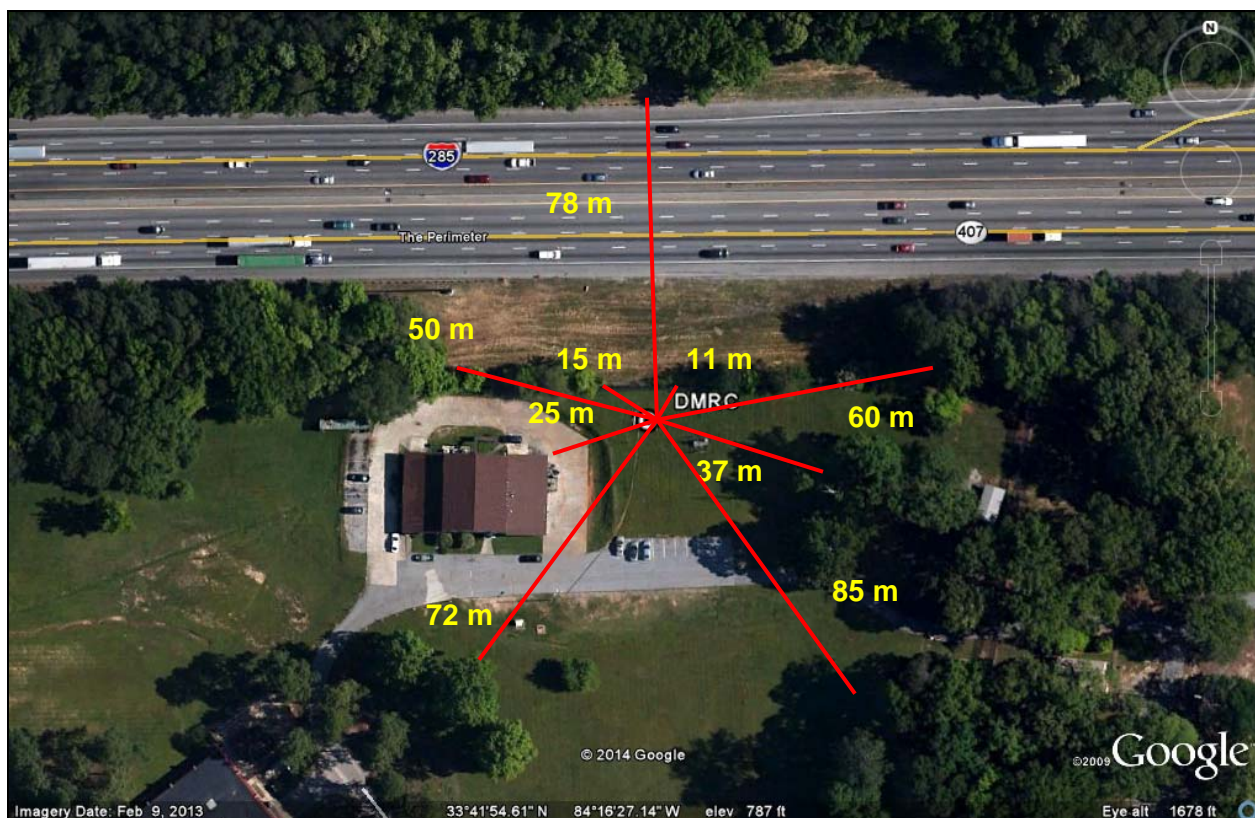


Figure 8: Measurements from Proposed Near-Road Site to Roadside Structures

2.5 Surrounding Land Use

The road segment is located in a mixed suburban/residential area. The site is situated on one side of the road segment where the Georgia Regional Hospital of Atlanta is located. In the surrounding area there are residential neighborhoods, schools, a few businesses, another hospital, and some areas of forest. There are secondary roads traversing near the site that also include heavy duty vehicle traffic. Flat Shoals Road to the North of I-285 has an FE AADT of 59,718, Flat Shoals Road to the South of I-285 has an FE AADT of 52,615, and Panthersville

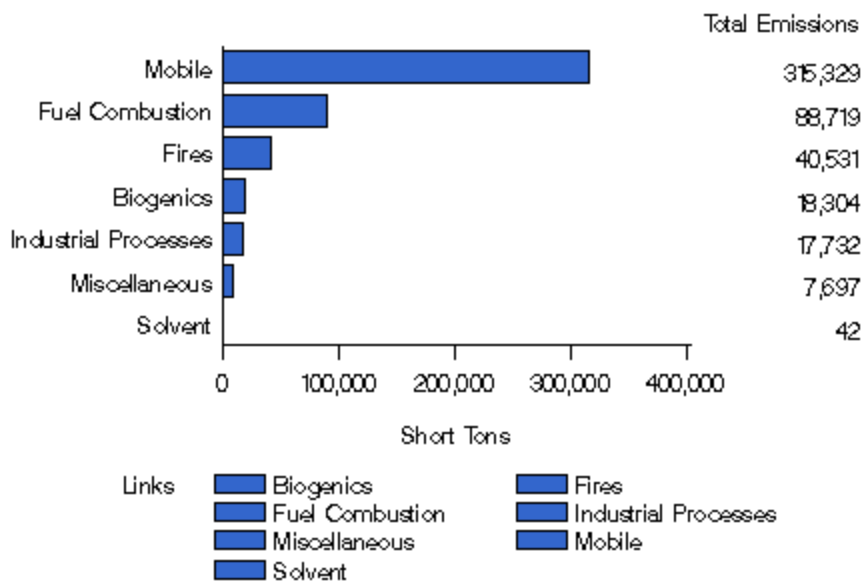
Road that runs to the East of the site has an FE AADT of 27,826. These land use characteristics are depicted in the following map.



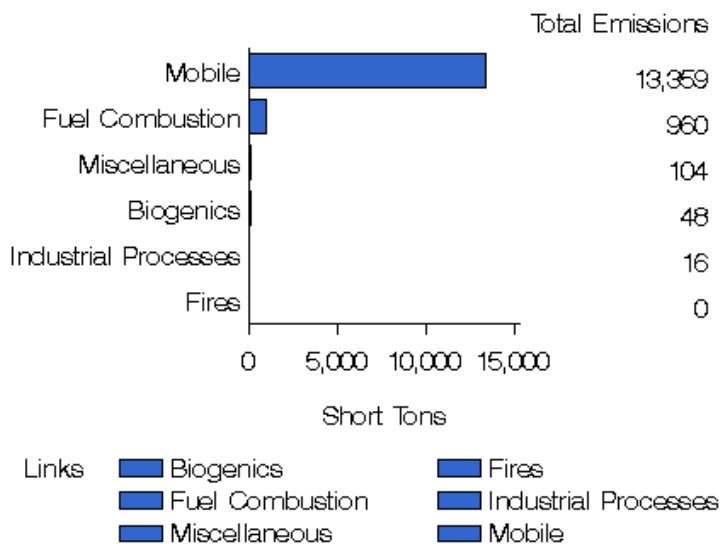
Figure 9: Surrounding Land Use

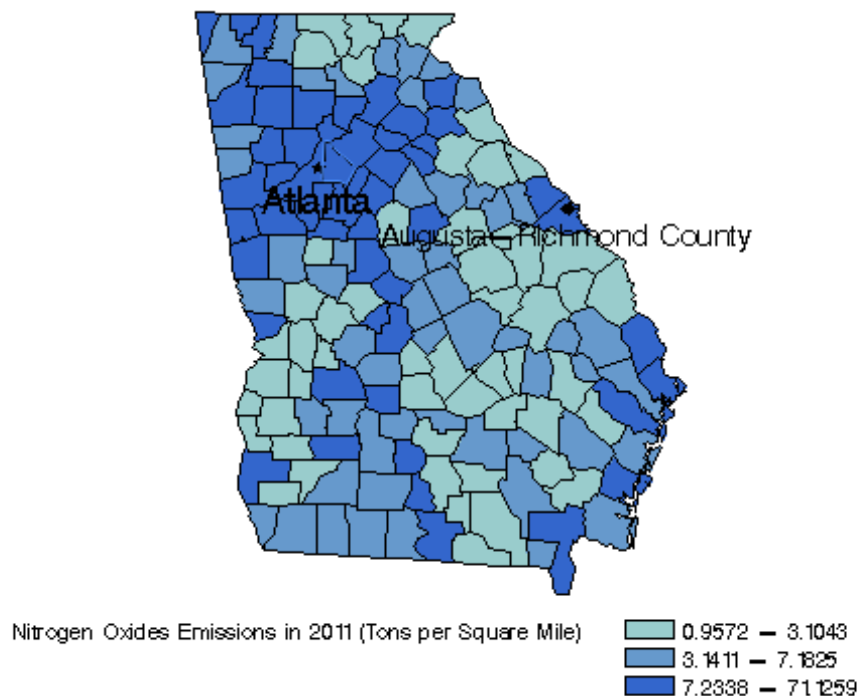
To explore potential emission sources in the area of the proposed site, the following graphs and maps were taken from EPA's Air Emissions website (<http://www.epa.gov/air/emissions/>) and reflect emissions data from 2011. In the first graph, each of the main emissions source sectors for all of Georgia are identified for 2011. Mobile emissions were the highest level, with 315,329 tons in 2011. Further, the next graph shows specifically DeKalb County (where the proposed near-road site would be located) for 2011 emissions, and mobile sources are again the top contributor of NO_x, with 13,359 tons. In the map, DeKalb County is shown with the darker blue color, representing 7.2338-71.1259 tons per square mile of nitrogen oxides emitted in 2011.

Nitrogen Oxides Emissions by Source Sector in Georgia (NEI 2011 v1 GPR)



Nitrogen Oxides Emissions by Source Sector in DeKalb County, Georgia (NEI 2011 v1 GPR)

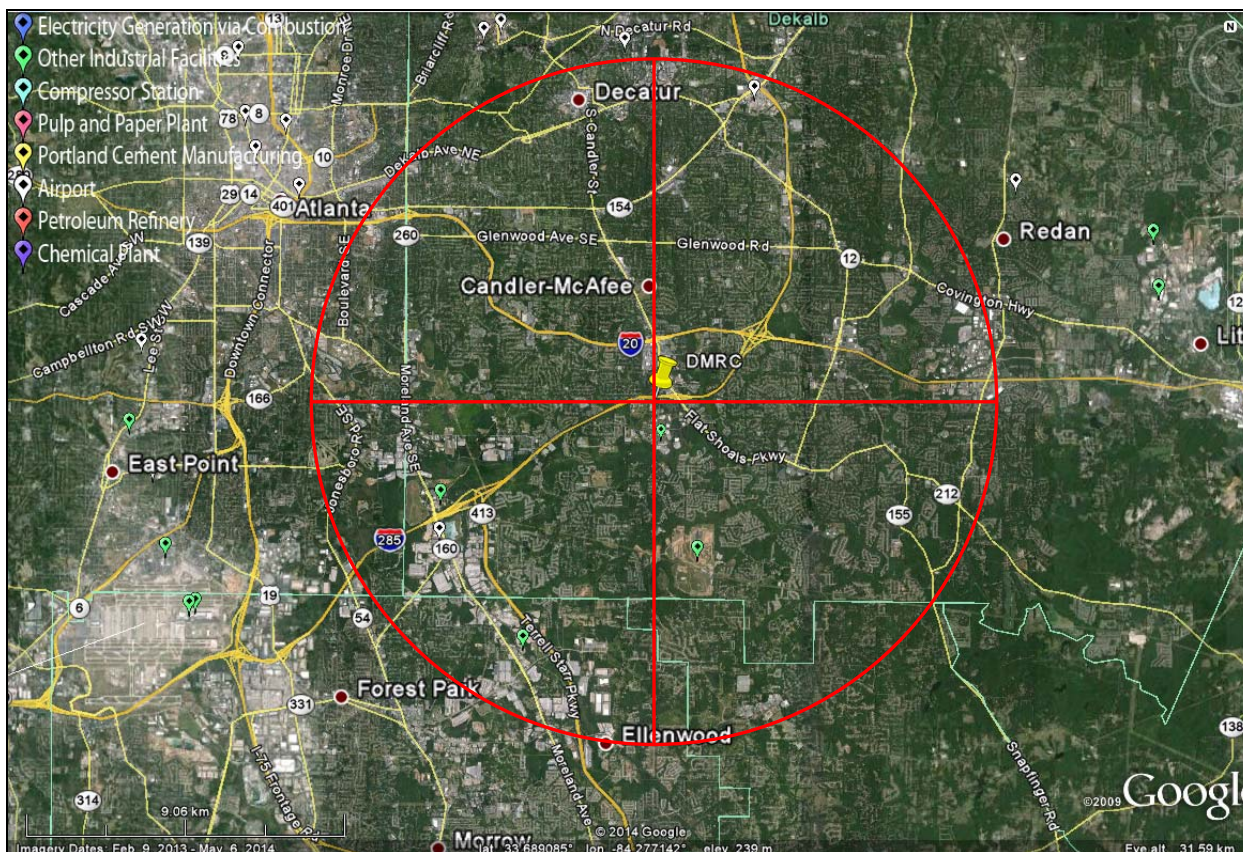




(<http://www.epa.gov/air/emissions/>)

Figure 10: County Emissions Map of 2011 Data

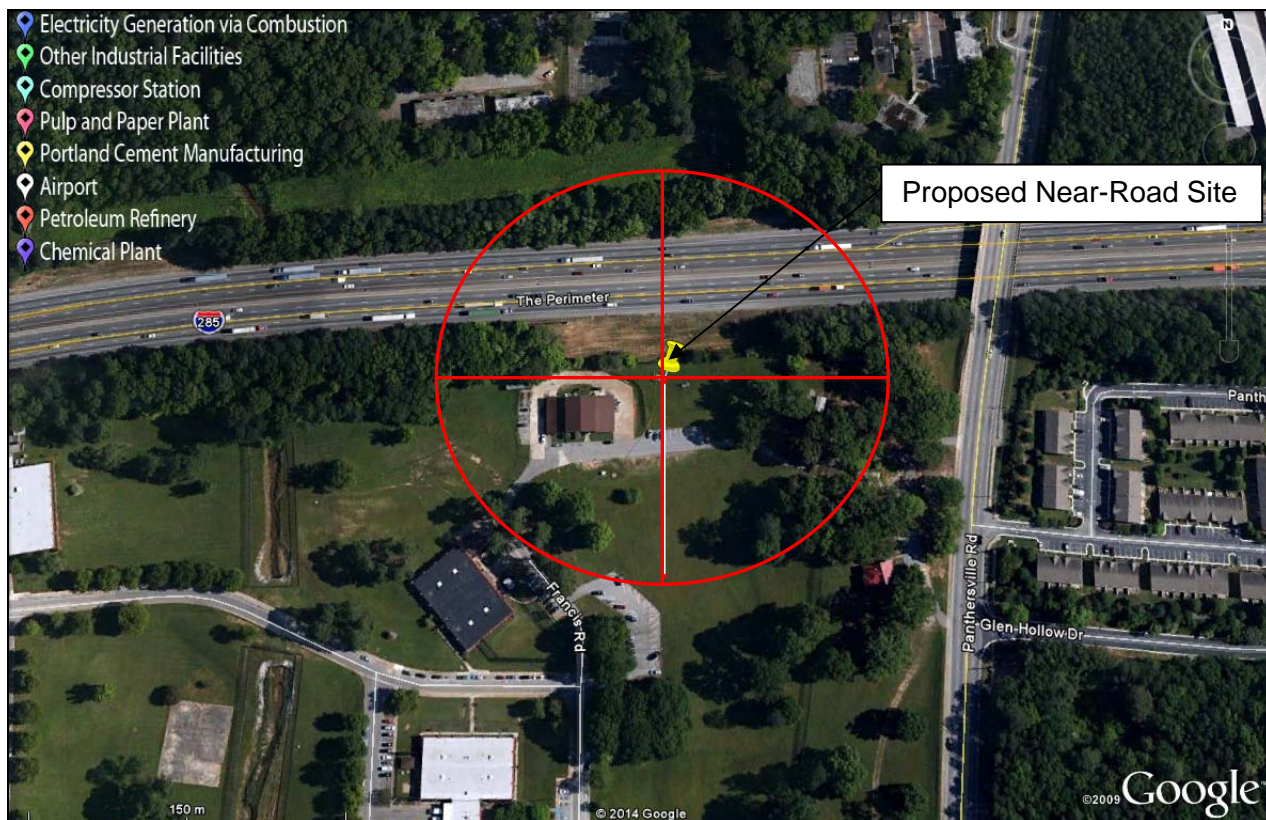
The next map was taken from EPA's Air Emission Sources website using Google Earth (<http://www.epa.gov/air/emissions/where.htm>) and show potential NO_x emissions sources in the vicinity of the proposed near-road site with 2011 data. The facilities displayed include electricity generation via combustion, pulp and paper plant, Portland cement manufacturing, pipeline compressor station, airport, petroleum refinery, chemical plant, and other industrial facilities. The red circle shows a 10 kilometer radius around the proposed near-road site (indicated by the yellow pin). Each source was reviewed on the webpage, to ensure that emissions were reported in 2011. Five emission sources were identified within the radius and southwest of the proposed site. The 'other industrial facilities' symbol represents Earthgrains Baking Co., Seminole Road MSW Landfill (with engines generating electricity), Waste Management Inc. Live Oak Landfill, and Griffin Industries, Inc. of Georgia. The 'airport' symbol identifies a 60 ft x 12 ft landing pad owned by Trico Heliport. The type and location of these emission sources indicates a very minimal possibility of having an influence in air monitoring at the proposed site. For more details about each emission source, see attached Appendix A.



<http://www.epa.gov/air/emissions/where.htm>

Figure 11: Potential Emission Sources Surrounding Proposed Near-Road Site

Considering that the near-road site will be a microscale site, the following map shows a 100 meter radius around the proposed near-road site (indicated by the yellow pin). There are no potential emissions sources in the direct vicinity of the existing sampling area where the near-road proposed site would be located.

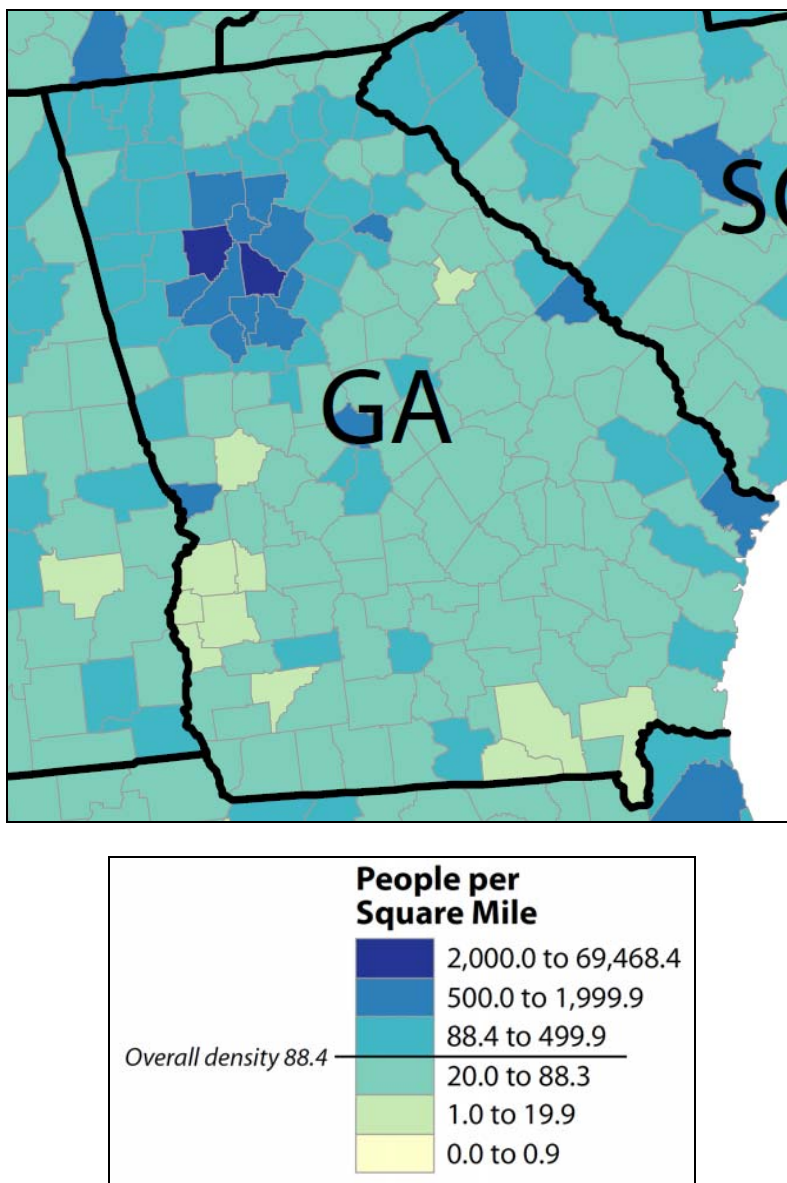


<http://www.epa.gov/air/emissions/where.htm>

Figure 12: Proposed Near-Road Microscale Site

2.6 Population

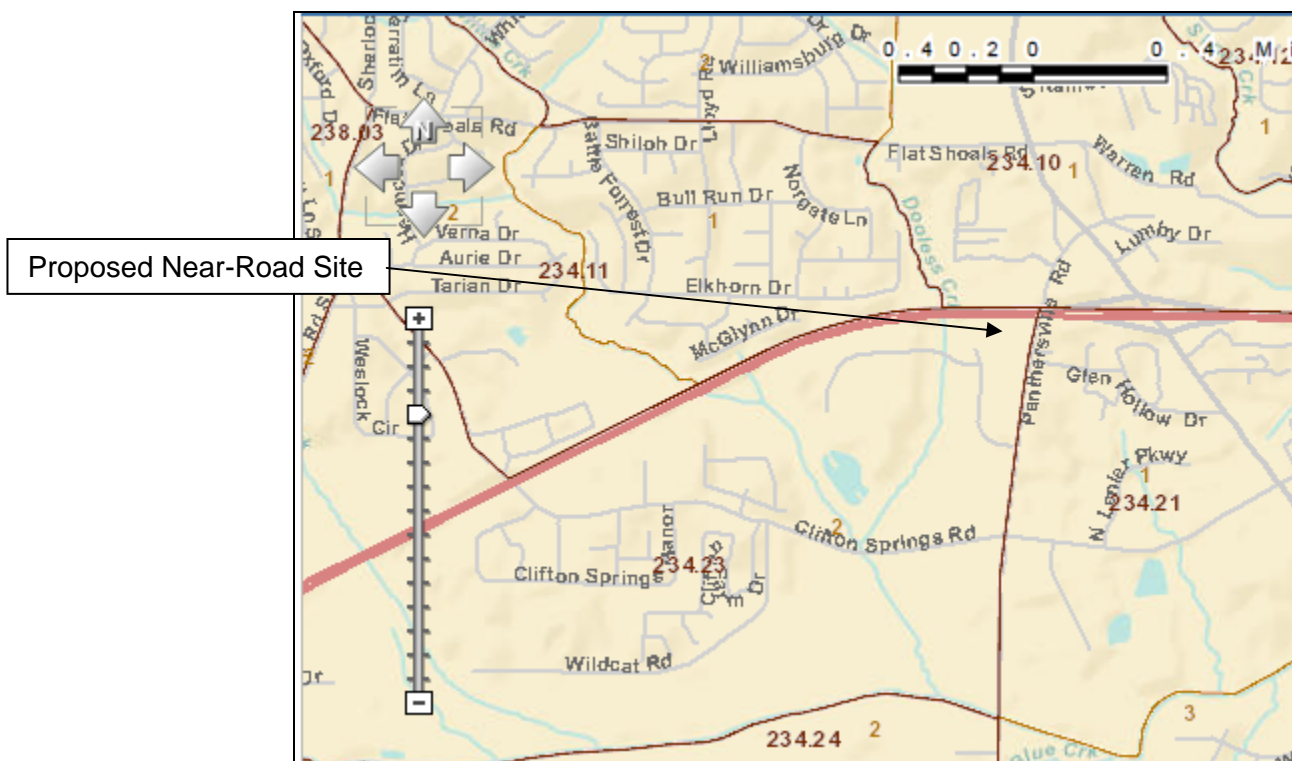
The following section addresses the population in the vicinity of the proposed near-road monitoring site. County level population and census block level population were explored, as well as socioeconomic and age demographics. The U.S. Census Bureau's website (<http://www.factfinder2.census.gov>), and the EPA's EJView website (<http://epamap14.epa.gov/ejmap/entry.html>). To get an overall picture, the first map below shows the population at the county level for the state of Georgia. DeKalb County, where the proposed near-road site would be located, has a 2010 population in the range of 2,000.0 to 69,468.4 per square mile.



http://www.census.gov/geo/maps-data/maps/pdfs/thematic/us_popdensity_2010map.pdf

Figure 13: Georgia's Population per Square Mile

To find more specific information about the population in the vicinity of the proposed near-road monitoring site, the U.S. Census Bureau's website (<http://factfinder2.census.gov/>) was explored to find the census tract. The following map shows the census tract for the proposed site (numbers in dark red). The proposed near-road site is within the 234.23 census tract, and adjoining the 234.21, 234.10, and 234.11 census tracts.

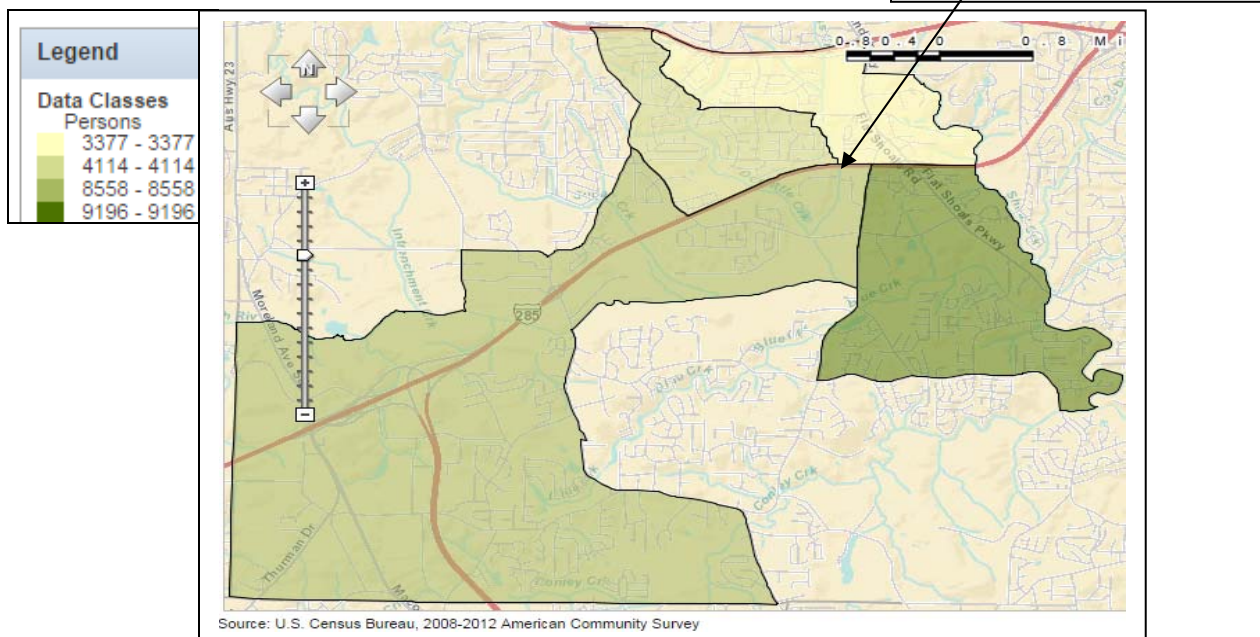


<http://factfinder2.census.gov/>

Figure 14: Census Tract for Proposed Near-Road Site

The following figures show the detailed demographics for the four census tracts (234.23, 234.21, 234.11 and 234.10) in the direct vicinity of the proposed near-road site. This information is also taken from the U.S. Census Bureau's website (<http://factfinder2.census.gov/>) and uses 2012 estimates based on the 2010 census. The figures below show the total population and age demographics for the census tracts surrounding the proposed near-road monitoring site. Detailed information is shown in the table below the maps.

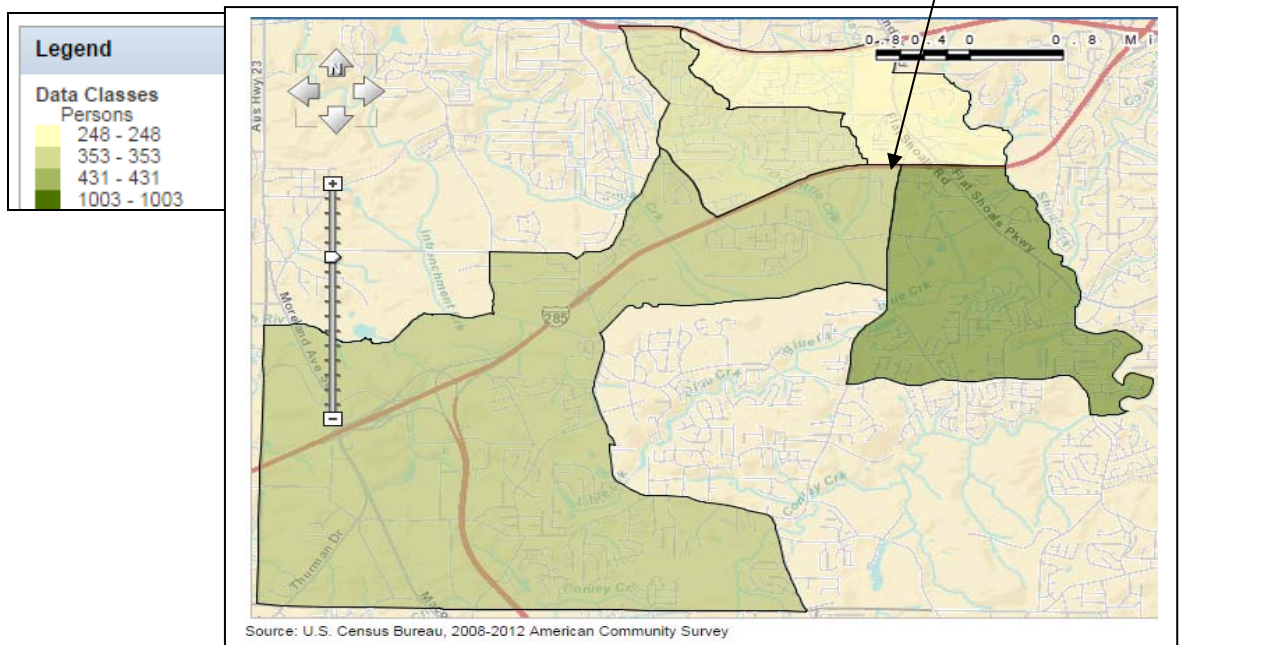
Thematic Map of Estimate; SEX AND AGE - Total population
Geography: by Census Tract



<http://factfinder2.census.gov/>

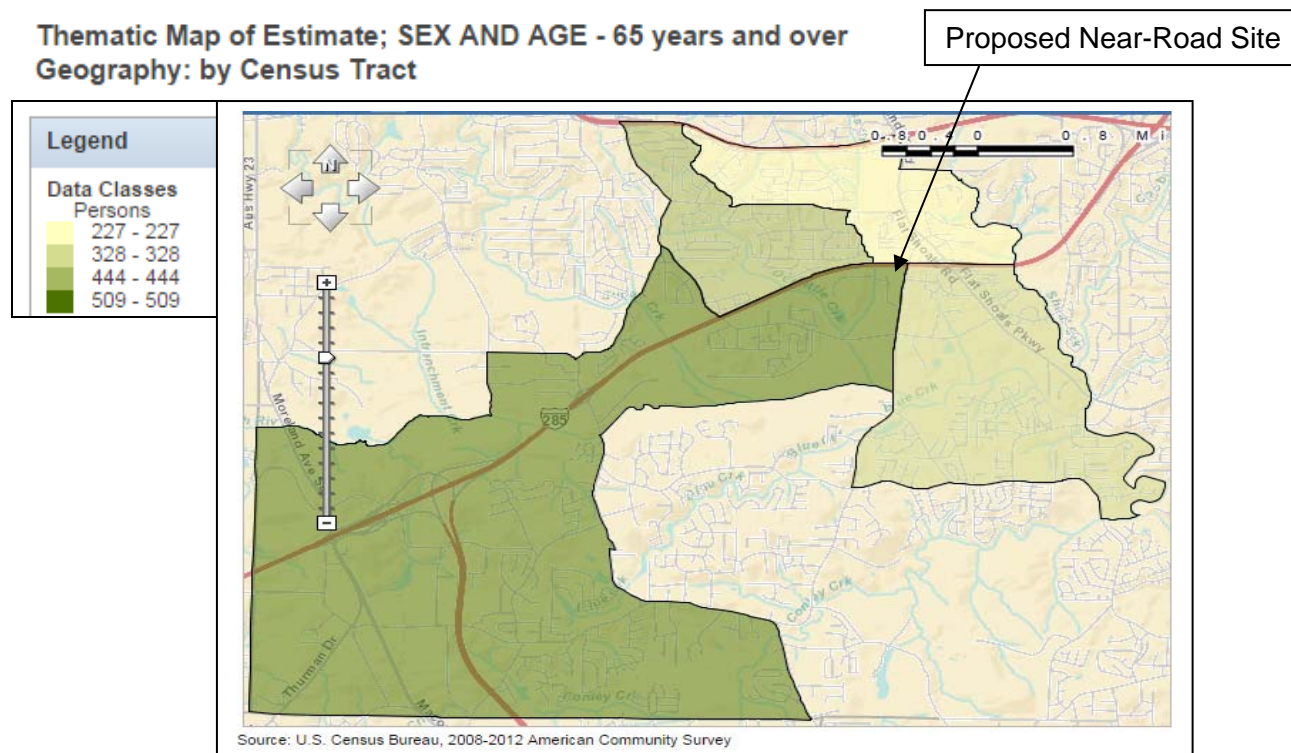
Figure 15: Total Population in Vicinity of Proposed Near-Road Site

Thematic Map of Estimate; SEX AND AGE - Under 5 years
Geography: by Census Tract



<http://factfinder2.census.gov/>

Figure 16: Children Under 5 Years in Vicinity of Proposed Near-Road Site



<http://factfinder2.census.gov/>

Figure 17: Population Age 65 and Older in Vicinity of Proposed Near-Road Site

The table below gives detailed population demographics for all four census tracts (234.10, 234.11, 234.21, and 234.23) in the vicinity of the proposed near-road site mapped above.

Subject	Census Tract 234.10, DeKalb County, Georgia	Census Tract 234.11, DeKalb County, Georgia	Census Tract 234.21, DeKalb County, Georgia	Census Tract 234.23, DeKalb County, Georgia
	Estimate	Estimate	Estimate	Estimate
SEX AND AGE				
Total population	3,377	4,114	9,196	8,558
Male	1,681	1,897	4,071	4,142
Female	1,696	2,217	5,125	4,416
Under 5 years	248	353	1,003	431
5 to 9 years	207	369	827	807
10 to 14 years	255	273	865	683
15 to 19 years	252	242	710	583
20 to 24 years	433	273	491	850
25 to 34 years	643	568	2,049	1,269
35 to 44 years	379	224	1,366	1,509
45 to 54 years	284	636	801	1,022
55 to 59 years	232	311	421	493
60 to 64 years	217	421	335	402

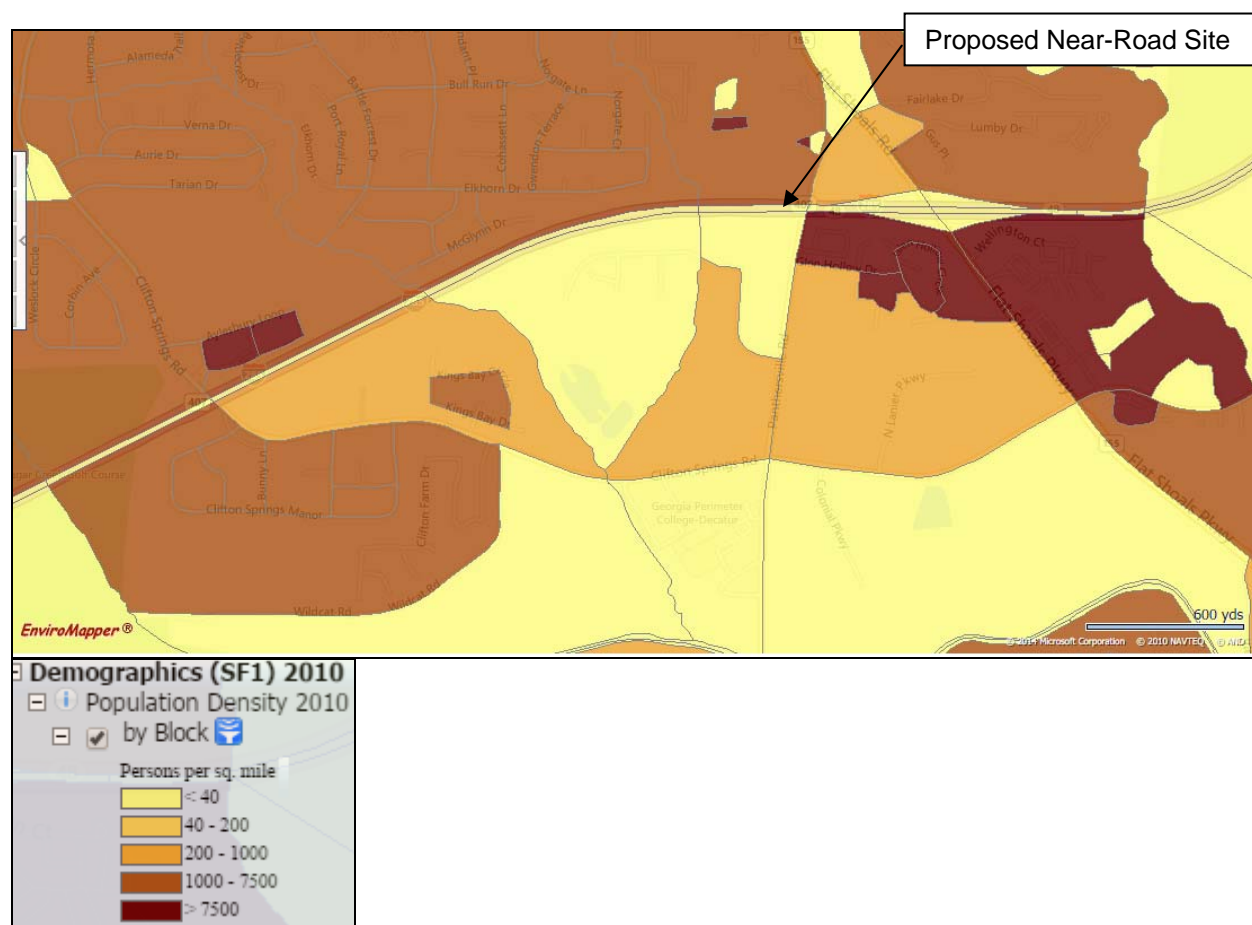
65 to 74 years	171	332	172	385
75 to 84 years	56	102	75	91
85 years and over	0	10	81	33
Median age (years)	29.8	34.7	27.3	32.7
18 years and over	2,507	2,941	5,931	6,304
21 years and over	2,333	2,803	5,619	5,849
62 years and over	373	579	568	761
65 years and over	227	444	328	509
18 years and over	2,507	2,941	5,931	6,304
Male	1,059	1,305	2,200	2,708
Female	1,448	1,636	3,731	3,596
65 years and over	227	444	328	509
Male	90	212	180	247
Female	137	232	148	262
RACE				
Total population	3,377	4,114	9,196	8,558
One race	3,377	3,897	9,078	8,370
Two or more races	0	217	118	188
One race	3,377	3,897	9,078	8,370
White	23	237	722	205
Black or African American	3,354	3,660	8,252	7,860
American Indian and Alaska Native	0	0	15	7
Cherokee tribal grouping	0	0	0	0
Chippewa tribal grouping	0	0	0	0
Navajo tribal grouping	0	0	0	0
Sioux tribal grouping	0	0	0	0
Asian	0	0	0	0
Asian Indian	0	0	0	0
Chinese	0	0	0	0
Filipino	0	0	0	0
Japanese	0	0	0	0
Korean	0	0	0	0
Vietnamese	0	0	0	0
Other Asian	0	0	0	0
Native Hawaiian and Other Pacific Islander	0	0	0	0
Native Hawaiian	0	0	0	0
Guamanian or Chamorro	0	0	0	0
Samoan	0	0	0	0
Other Pacific Islander	0	0	0	0
Some other race	0	0	89	298
Two or more races	0	217	118	188
White and Black or African American	0	194	35	18
White and American Indian and Alaska Native	0	0	0	0
White and Asian	0	0	0	0

Black or African American and American Indian and Alaska Native	0	9	0	0
Race alone or in combination with one or more other races				
Total population	3,377	4,114	9,196	8,558
White	23	445	757	246
Black or African American	3,354	3,877	8,370	8,032
American Indian and Alaska Native	0	23	15	91
Asian	0	0	0	147
Native Hawaiian and Other Pacific Islander	0	0	0	0
Some other race	0	0	172	384
HISPANIC OR LATINO AND RACE				
Total population	3,377	4,114	9,196	8,558
Hispanic or Latino (of any race)	11	87	16	463
Mexican	11	70	16	6
Puerto Rican	0	0	0	3
Cuban	0	0	0	0
Other Hispanic or Latino	0	17	0	454
Not Hispanic or Latino	3,366	4,027	9,180	8,095
White alone	21	195	722	172
Black or African American alone	3,345	3,615	8,236	7,771
American Indian and Alaska Native alone	0	0	15	7
Asian alone	0	0	0	0
Native Hawaiian and Other Pacific Islander alone	0	0	0	0
Some other race alone	0	0	89	34
Two or more races	0	217	118	111
Two races including Some other race	0	0	83	1
Two races excluding Some other race, and Three or more races	0	217	35	110
Total housing units	2,109	1,538	3,610	3,472

<http://factfinder2.census.gov/>

Figure 18: Population Demographics for Census Tracts in Vicinity of Proposed Site

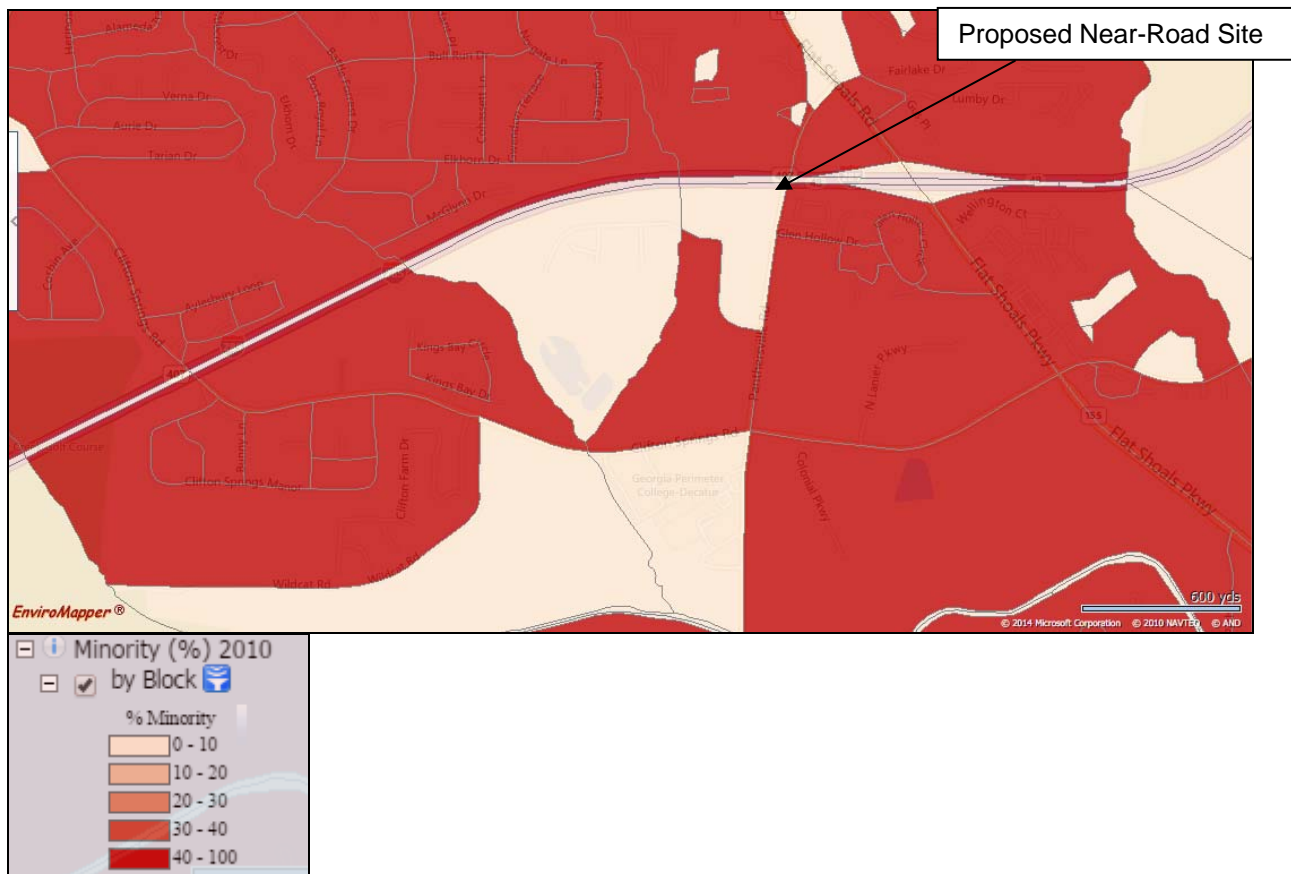
For the following maps, the EPA's EJView website (<http://epamap14.epa.gov/ejmap/entry.html>) was used. The population density and socioeconomic factors were examined with this website. The information on this website is based on 2010 U.S. Census of Population and Housing 100% count database-Summary File 1 (SF1) and the U.S. Census Bureau's 2006-2010 American Community Survey 5-year Summary (ACS)2010. The following data was used as an estimated guide to give indicative information regarding socioeconomic demographics since the data is outdated. The EJView website describes that the data is derived as follows: *'EJView uses an area-weighted method of population estimation. Population and housing statistics are created by overlaying the specified study area (buffered point, user-digitized polygon or map window) with the appropriate Census summary level geography (block, block group, tract, or county). For each Census polygon the respective population values are adjusted proportionally (area-weighted) based on the percentage of the polygon that lies within the study area.'* Different levels of geographic boundaries (i.e. block, blockgroup) were available for each parameter examined, and the level was chosen to show as much detail as possible. The first map below shows the population density by block.



<http://epamap14.epa.gov/ejmap/ejmap.aspx?wherestr=dekalb%20county%2C%20ga>

Figure 19: Population Density by Census Block

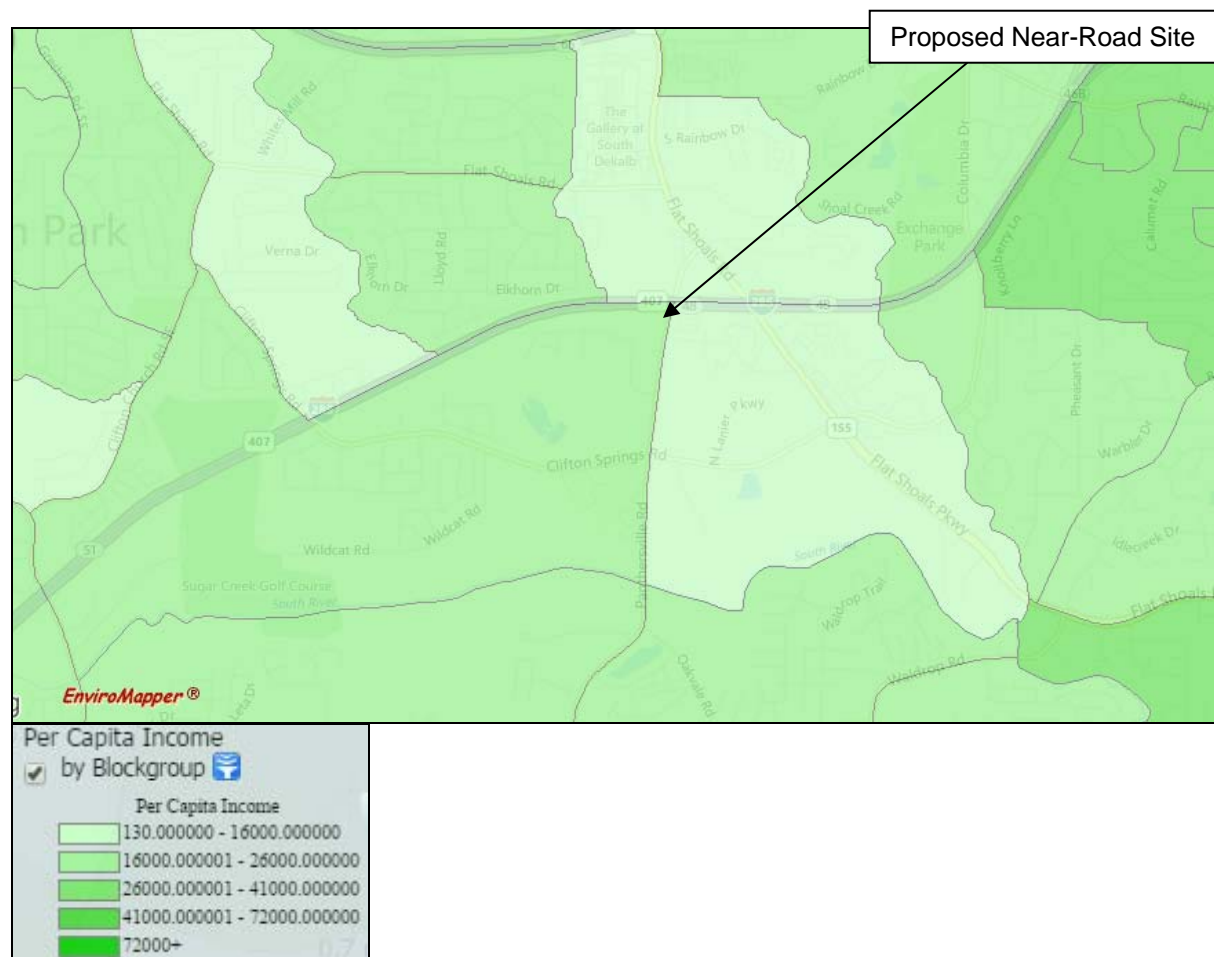
The next map below shows the percent minority population by census block.



<http://epamap14.epa.gov/ejmap/ejmap.aspx?wherestr=dekalb%20county%2C%20ga>

Figure 20: Percent Minority by Census Block

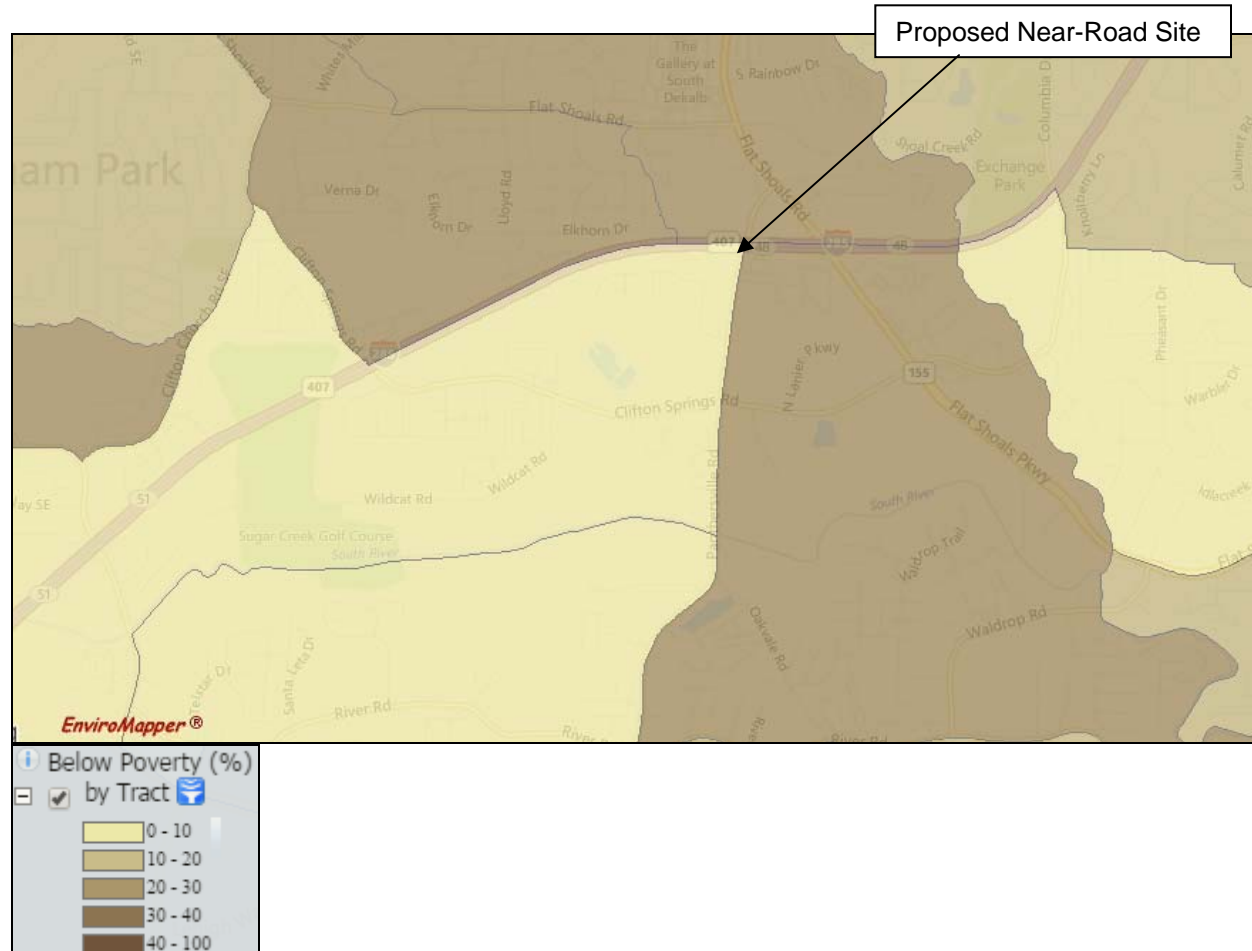
The following map below shows the per capita income blockgroup.



<http://epamap14.epa.gov/ejmap/ejmap.aspx?wherestr=dekalb%20county%2C%20ga>

Figure 21: Per Capita Income by Blockgroup

In the following map, the percent population below poverty is shown by tract. The percent population below poverty for this area is 20-30%.



<http://epamap14.epa.gov/ejmap/ejmap.aspx?wherestr=dekalb%20county%2C%20ga>

Figure 22: Percent below Poverty by Tract

In addition to the above exploration of showing population demographics for residential use, the area surrounding the proposed near-road site was also examined for different groups that utilize and would be exposed on a daily basis or for longer term use. The following map was taken from Google Earth and shows the many surrounding schools, hospital, and health centers where susceptible or vulnerable populations would be exposed to near-road air pollution.

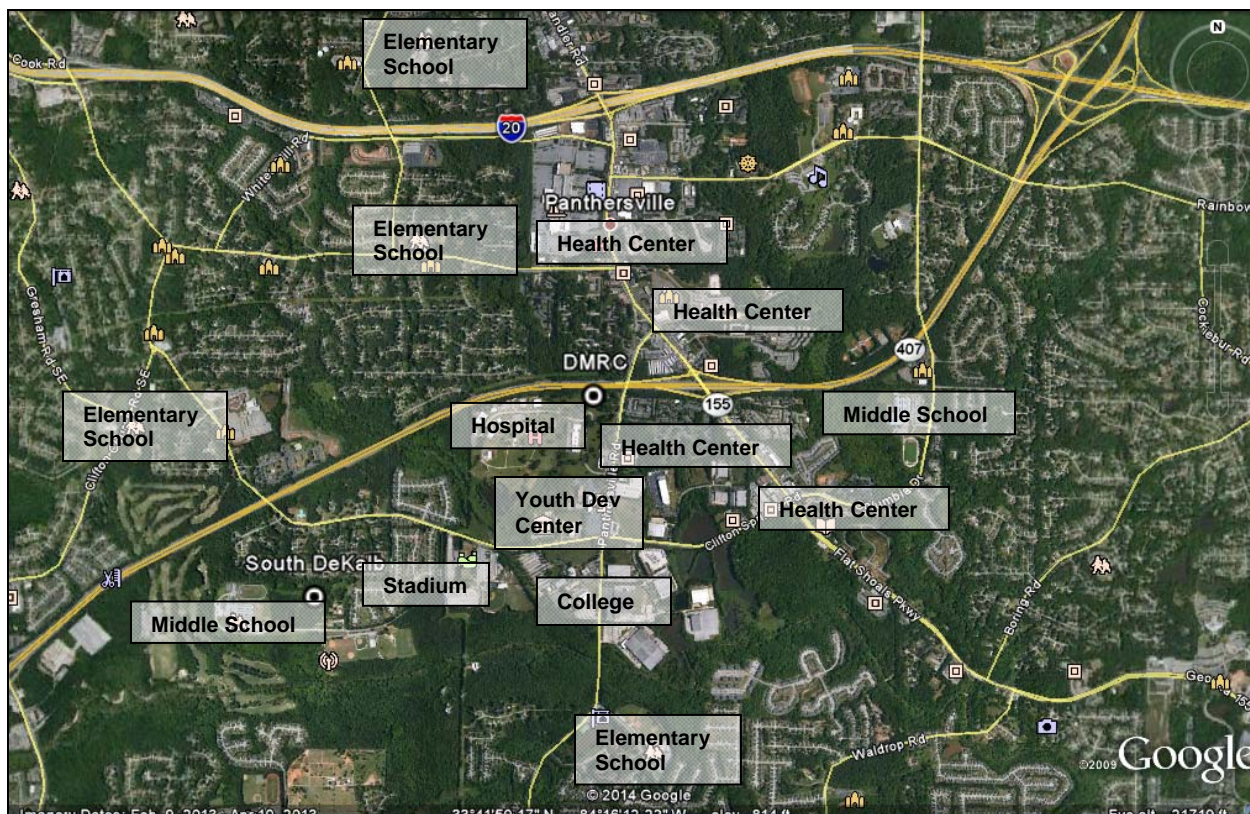


Figure 23: Population Use of Surrounding Area

2.7 Terrain

The terrain surrounding the proposed near-road monitoring site is relatively flat, nearly at-grade, with gently rolling hills. This can be seen in the above photos (Figure 7). In addition, the following figures show details of the proposed near-road monitoring site's surrounding terrain. Figure 24, below, shows an aerial photo of the direct vicinity of the proposed site. Figure 25, also below, shows the terrain in Google Maps.

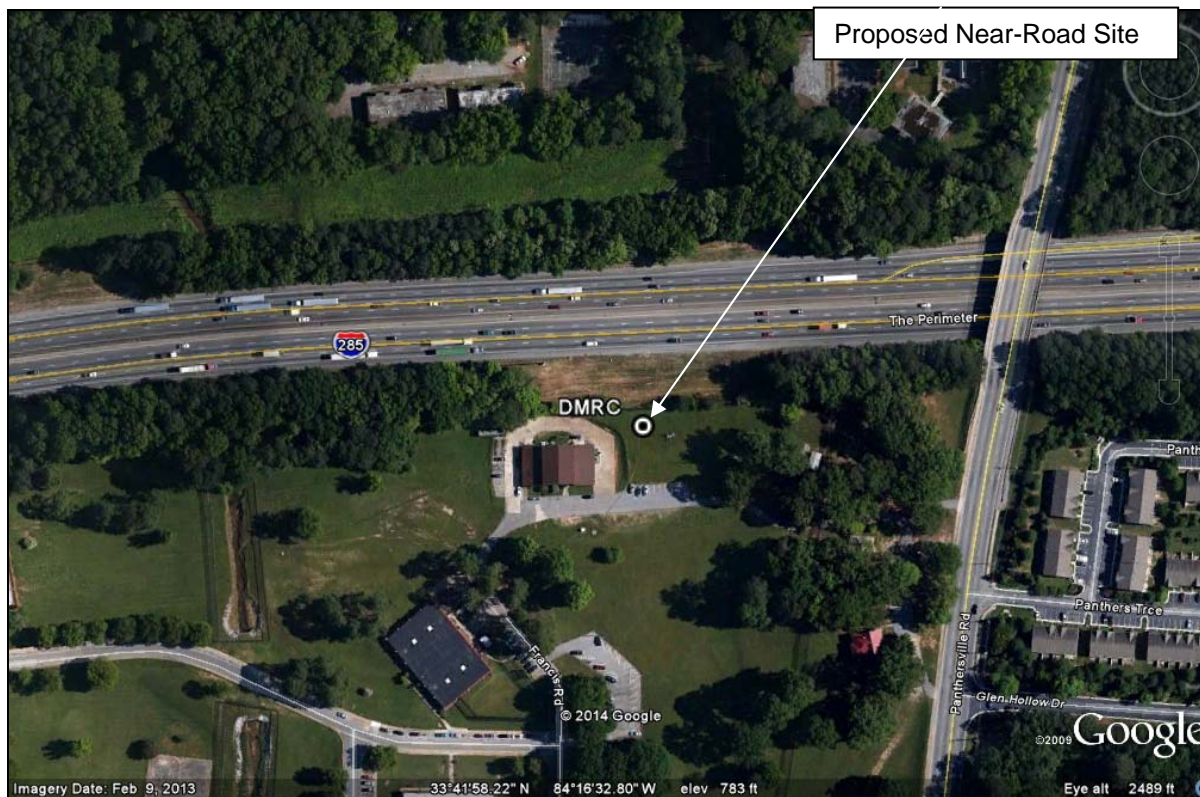


Figure 24: Aerial Photo of Surrounding Area

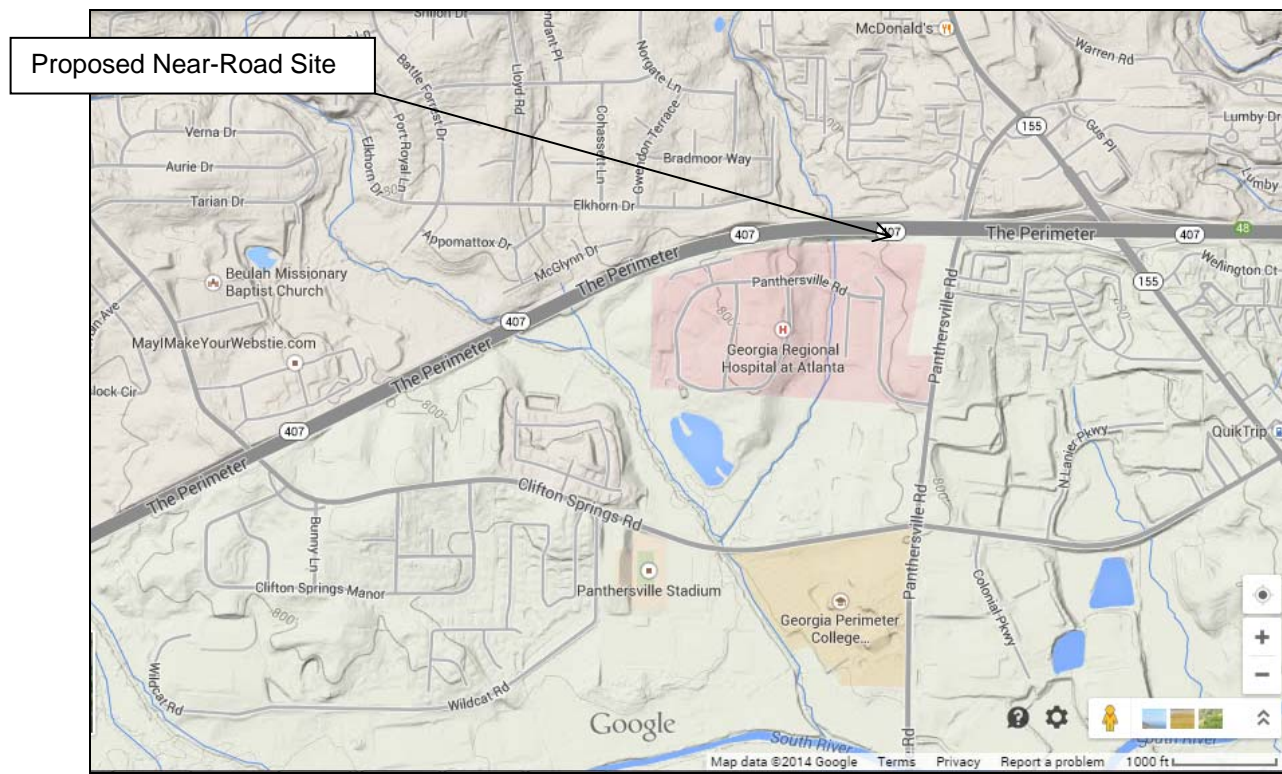
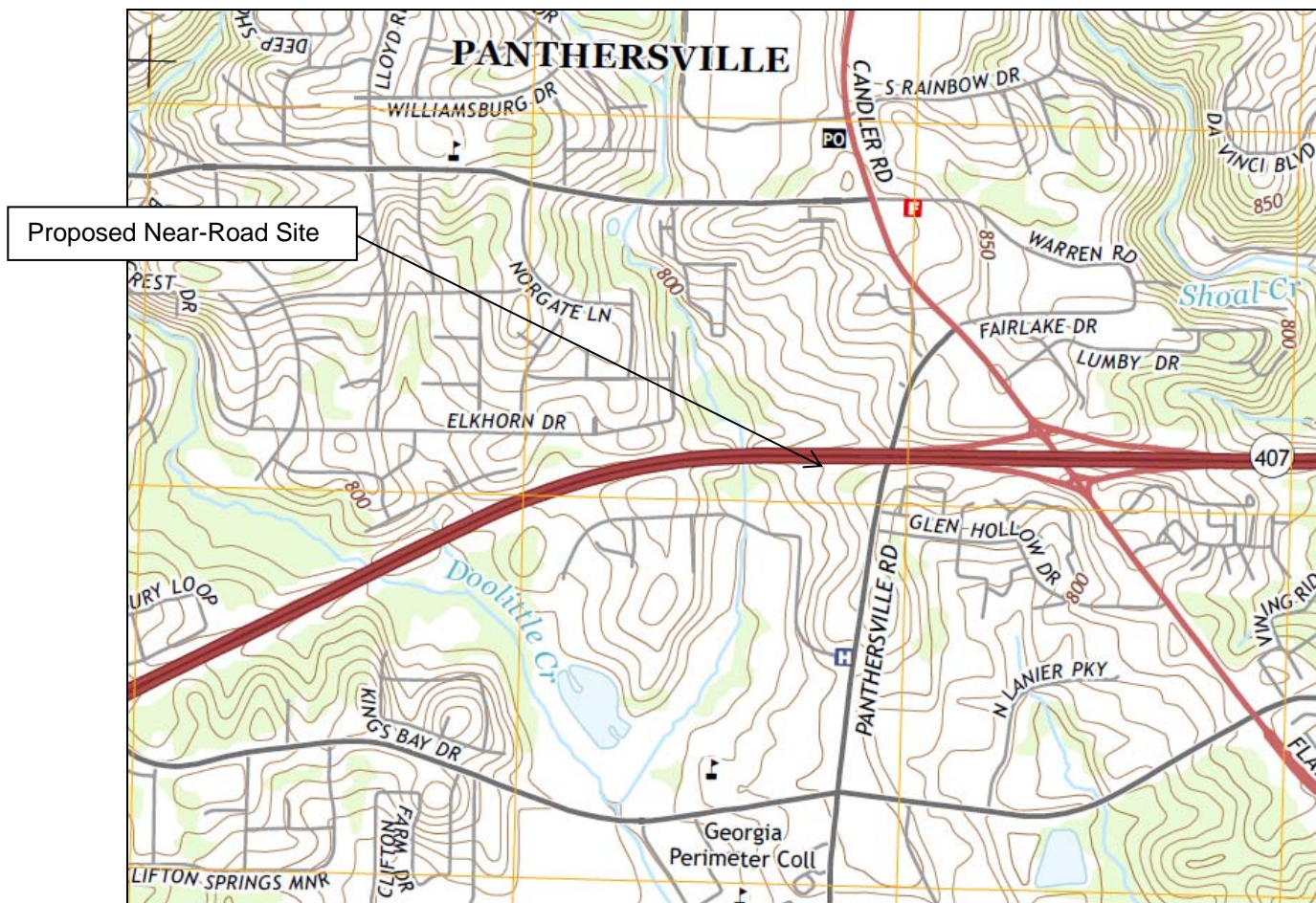


Figure 25: Google Map of Terrain Surrounding Proposed Near-Road Monitoring Site

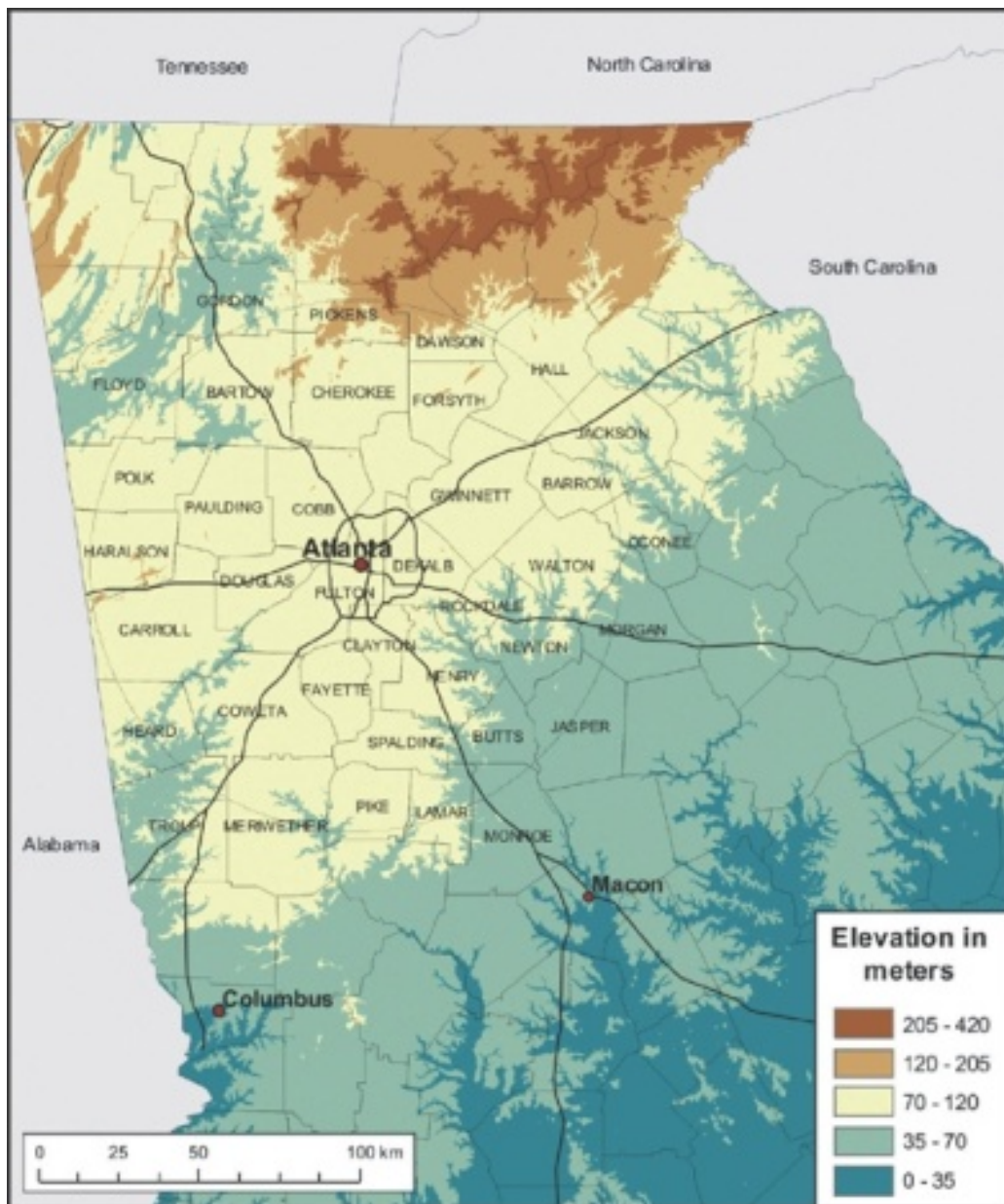
The following topographical map was copied from the U.S. Department of Interior, U.S. Geological Survey, Southeast Atlanta Quadrangle, 7.5 Minute Series (Topographic) map. This map shows the gently rolling hills surrounding the proposed near-road monitoring site. There is about a 10 feet gradual change in elevation from approximately 800 feet above sea level to the West of the site gradually sloping up toward the East, across the proposed site to approximately 790 feet in elevation.



http://store.usgs.gov/b2c_usgs/usgs/maplocator/

Figure 26: Topographical Map Showing Area Surrounding Proposed Near-Road Monitoring Site

The following map of Georgia also shows the terrain for the whole state. The map was taken from <http://www.weatherwise.org/Archives/Back%20Issues/2010/March-April%202010/Atlanta-full.html>. The map shows that through the Atlanta area, the elevation is relatively consistent, with 70-120 meters. The area surrounding the proposed near-road monitoring site is within the same air basin.



<http://www.weatherwise.org/Archives/Back%20Issues/2010/March-April%202010/Atlanta-full.html>

Figure 27: Map of Georgia's Elevation Ranges

The following maps were taken from <http://www.griffin.uga.edu/aemn/cgi-bin/CLIMATE.pl?map=t&b=01&e=12> showing the average precipitation and temperature across Georgia. Along with the above elevation map, these maps show that the area surrounding the proposed near-road monitoring site is basically within the same air basin. The annual average precipitation for the Atlanta area from 1961-1990 was 50-52 inches. The annual average temperature for the Atlanta area from 1961-1990 was 61-62°F.

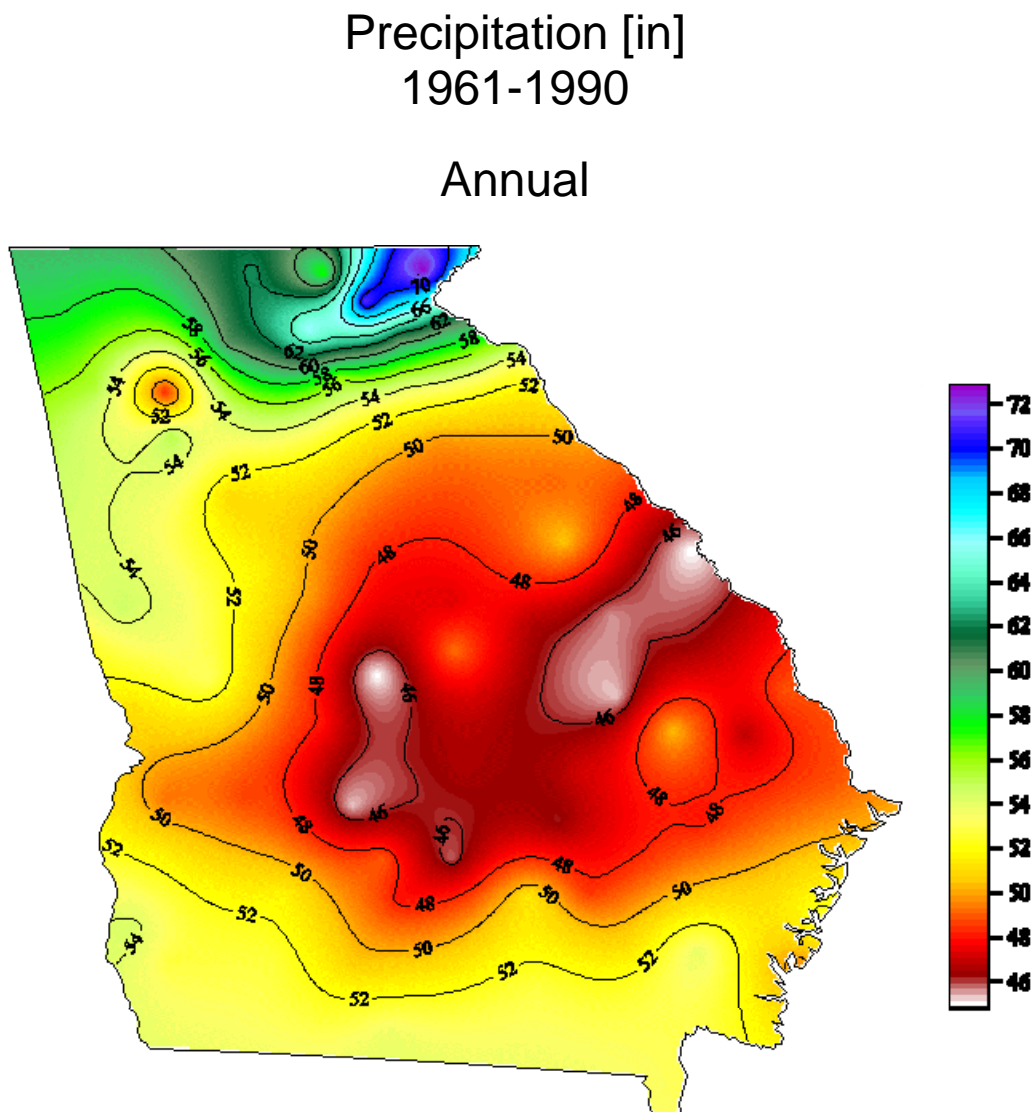


Figure 28: Map of Georgia's Average Precipitation

Average Air Temperature [°F] 1961-1990 Annual

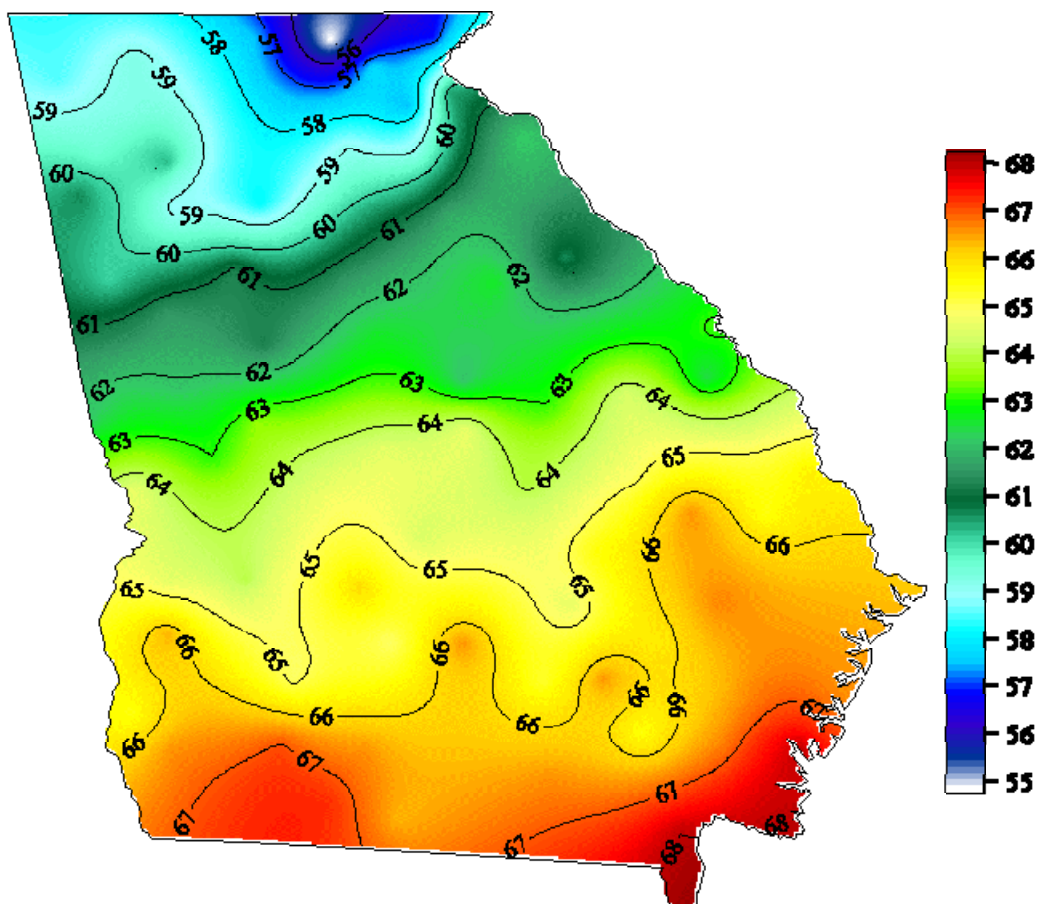


Figure 29: Map of Georgia's Average Temperatures

2.8 Meteorology

To obtain the wind patterns across the proposed near-road monitoring location, the wind speed and wind direction data was taken from GA EPD's surrounding meteorological stations in the Atlanta metropolitan area. These sites included the Confederate Avenue site (13-121-0055) in Fulton County, the Conyers site (13-247-0001) in Rockdale County, the South DeKalb (13-089-0002) site and Tucker site (13-089-3001) in DeKalb County. The following map shows the locations of these meteorological stations in relation to the proposed near-road monitoring site. Using data from 2013, wind roses were produced from these sites and are shown below in the map.

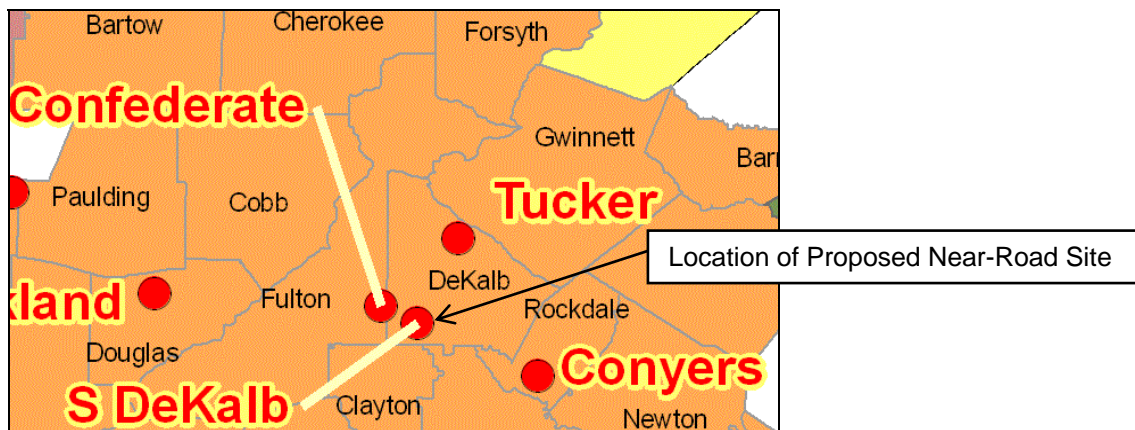


Figure 30: Map of Meteorological Sites near Proposed Near-Road Site

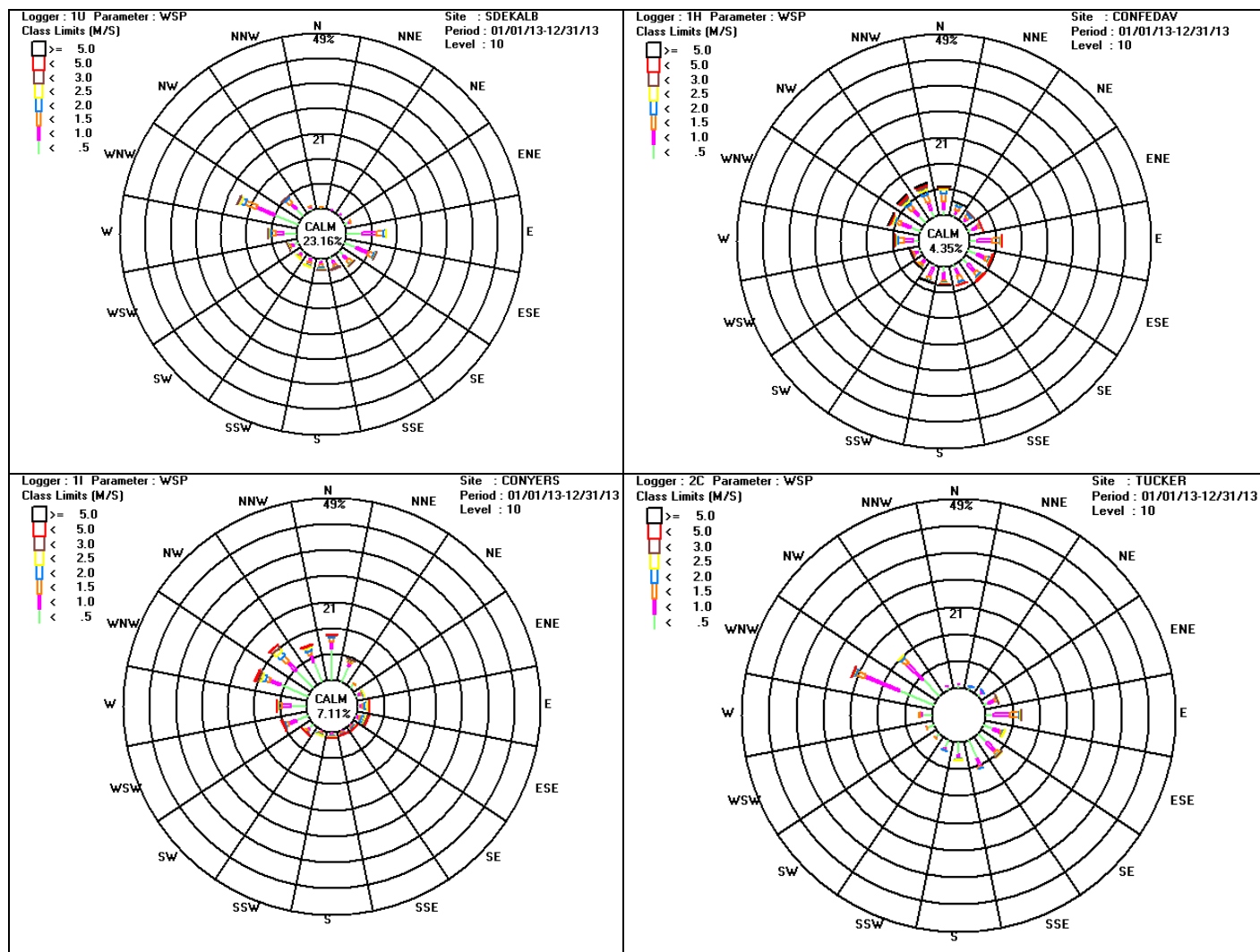


Figure 31: Atlanta-Sandy Springs-Marietta MSA Select Wind Roses

The meteorological site closest to the proposed near-road monitoring site is the South DeKalb site. At this site, the predominant wind pattern appears to be from the WNW. The following map shows the approximate location of the South DeKalb meteorological station with the respective wind roses in relation to the proposed near-road monitoring site. With the predominant wind pattern flowing from WNW, DMRC site would be relatively downwind of the flowing traffic.

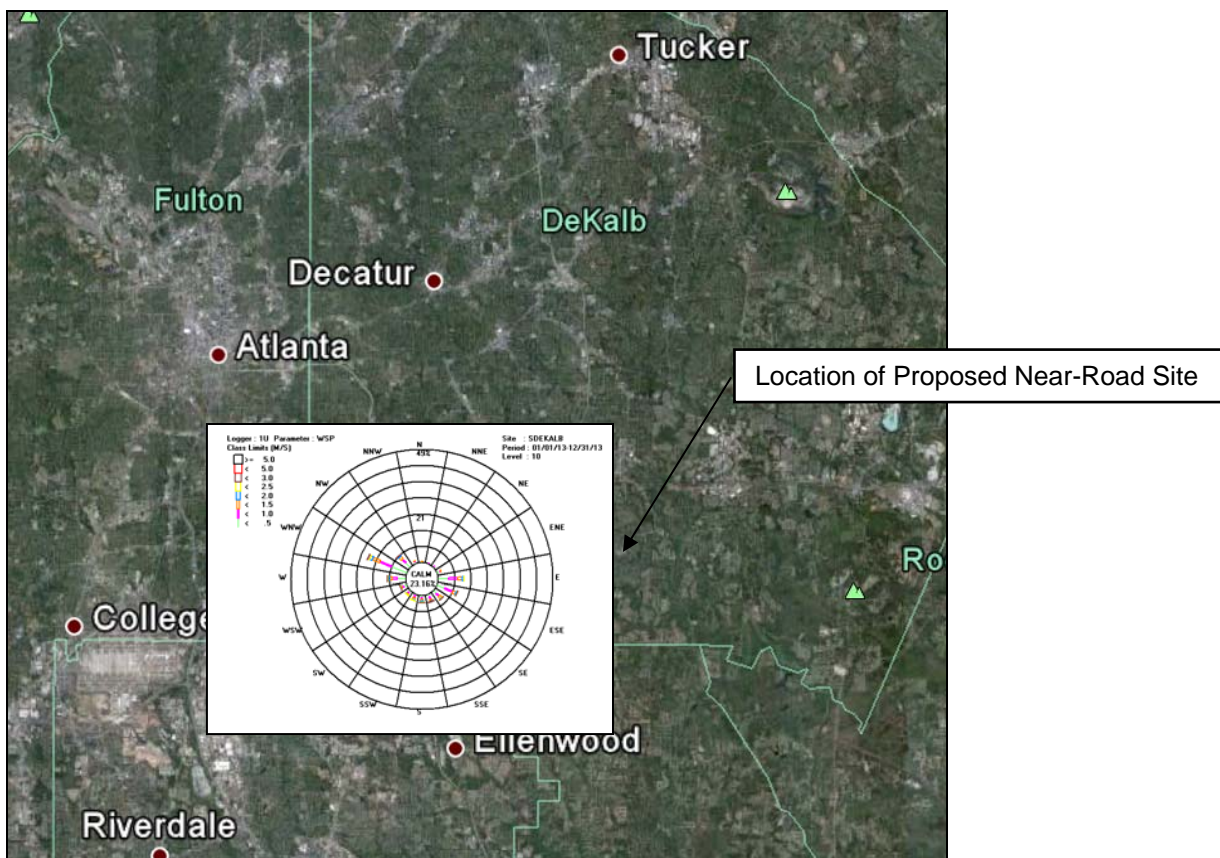


Figure 32: Map of Proposed Site with Nearby Wind Roses

2.9 Siting Criteria

As can be seen in earlier discussion and previous photos (Figure 3 and Figure 34), the proposed site is beside the nearest edge of traffic lanes, with the sampling area separated by a chain link fence. The fence is located approximately 30 meters from the outside nearest edge of traffic lanes. With the only structure between the proposed site and Interstate 285 being a chain link fence, there are no obstructions of air flow from the traffic to the site. There are bushes and vines that may need to be removed or trimmed from the fence and surrounding area to allow for optimal air flow. There is ample room to place the probe more than the required 1 meter vertically and horizontally away from structures. In addition, there is ample room to meet the microscale near-road monitoring requirement for the sampler inlet to be between 2 and 7 meters above ground level. This can be seen in the following site photos facing four cardinal directions, and photos showing expanse of space around the platform (Figure 33 and Figure 34 below).

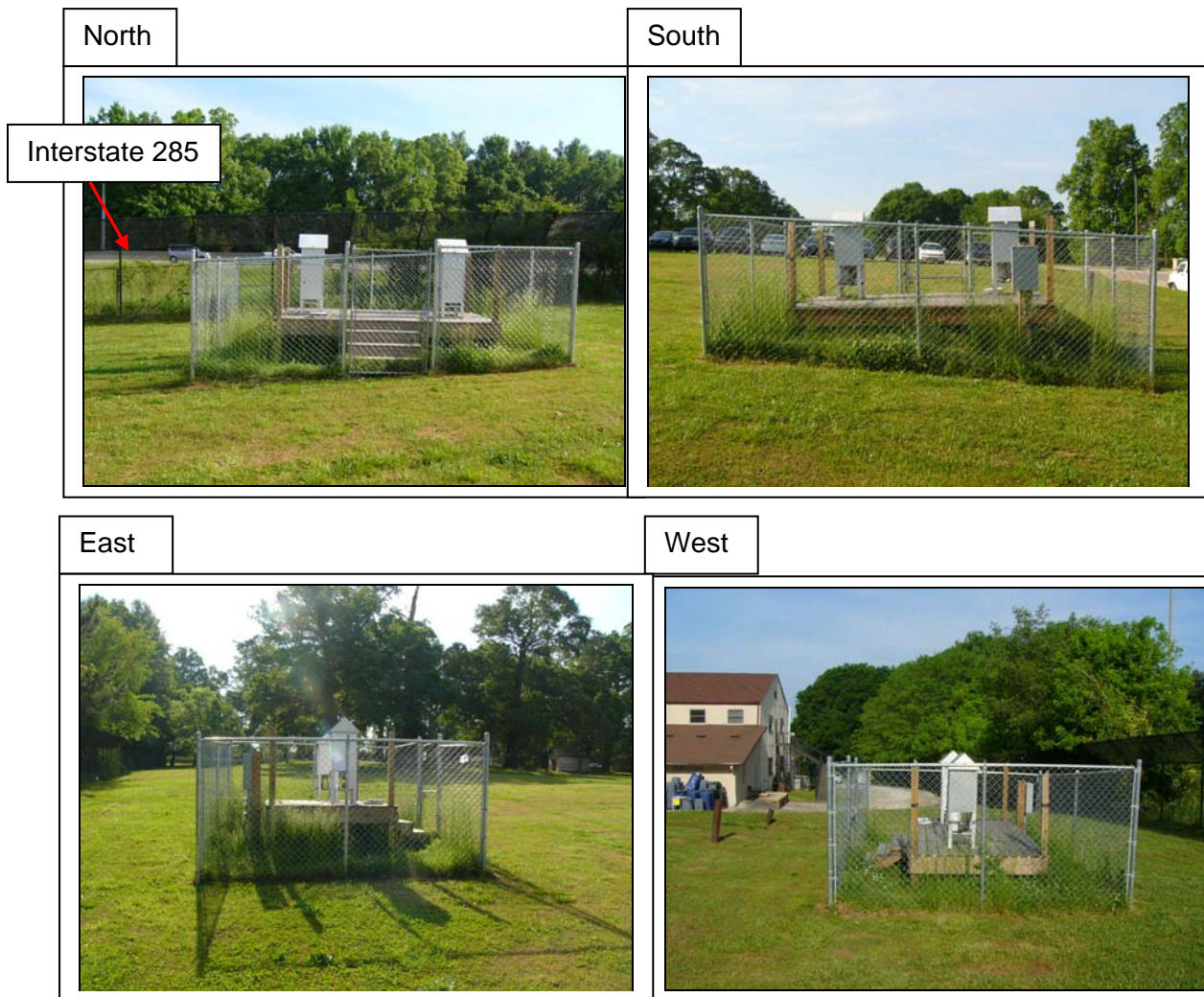


Figure 33: Cardinal Direction Site Photos for Proposed Near-Road Site





Figure 34: Photos Showing Space around Proposed Near-Road Site

2.10 Monitoring Site Logistics

Since the proposed site would be located on Georgia Regional Hospital at Atlanta property, GA EPD would not need to acquire right-of-way access from the GA Department of Transportation (GA DOT). GA EPD has had sampling equipment on this property since 1986. GA EPD has recently built a new sampling deck and upgraded power at the site in anticipation of expansion to accommodate near-road sampling. GA EPD has acquired permission from the Georgia Regional Hospital at Atlanta to expand the sampling area as needed in order to place a shelter on their property. A shelter could be placed in the area beside the sampling deck, adjacent to the chain-link fence (seen in Figure 34 above). A sampling inlet could be placed from the shelter to the chainlink fence.

The site would be accessed from Georgia Regional Hospital at Atlanta property through secondary roads (Panthersville Road) running North/South on the East side of the sampling area. There are parking lots available adjacent to the site, to ensure safety for site operators while maintaining the site. In addition, the site would be located opposite a chainlink fence from the sampling area. The current sampling deck is located approximately 38 meters from the middle of the first lane on I-285. The chainlink fence is approximately 30 meters from the middle of the first lane of traffic, allowing ample space for the safety of those traveling on the interstate and the safety of the operators.

2.11 Construction Projects

To search for planned construction projects, the Georgia Department of Transportation website, <http://www.dot.ga.gov/informationcenter/maps/geotraqs/Pages/default.aspx>, was investigated. The following map shows the projects that are currently happening in pink and the projects that are planned in purple. For a more detailed list of projects in the surrounding area, see Appendix B, and for complete details, see the above GA DOT website.

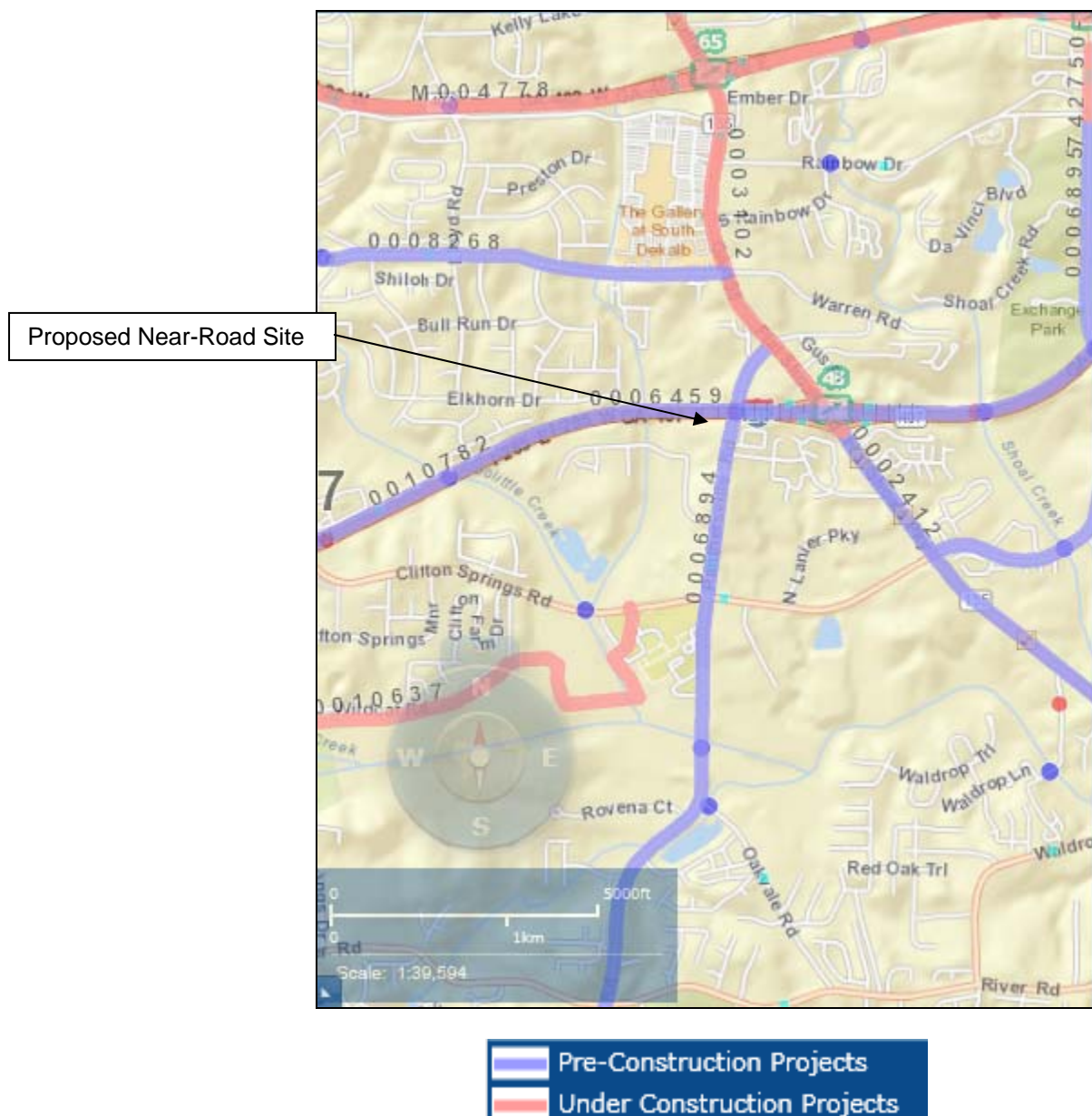


Figure 35: Current and Future GA DOT Projects in Vicinity of Proposed Near-Road Site

2.12 Site Details

The following information provides the site details, including site identification number, street address, latitude/longitude, and details regarding each parameter monitored at the proposed near-road site.

Proposed Site ID: 13-089-0003

Street Address: Georgia Regional Hospital at Atlanta, 3073 Panthersville Road, Decatur, DeKalb County, GA 30034

Latitude/Longitude: 33.698468/-84.272694

Elevation: 238 meters

Parameter	Monitoring Objective	Sampling Schedule	Sampling Method	Analysis Method	Spatial Scale
NO ₂	Source Oriented	Continuous	T200UP	Chemiluminescence	Micro
VOCs	Source Oriented	Every 6 days or Every 12 days as agreed with EPA	Stainless Steel Canister	Gas chromatograph/Flame Ionization Detection	Micro
Black Carbon	Source Oriented	Continuous	Thermo 5012 MAAP	Multi-Angle Absorption Photometer (MAAP)	Micro

Table 2: Detailed Site Information

Appendix A: Potential Emissions Sources in Vicinity of Proposed Near-Road Site

Facility Name	Facility Address	Latitude	Longitude	NAICS Code	Pollutant	Source Type	Emissions in Tons	Year	Distance (km)
Earthgrains Baking Co., Inc.	3310 Panthersville Rd	33.6875	-84.2711	311812	Nitrogen Oxides	Bakeries	2.652	2011	1.23
Seminole Road MSW Landfill	4203 Cleveмонт Road	33.6567	-84.2599	562212	Nitrogen Oxides	Landfill	44.7	2011	4.79
Waste Management Inc/Live Oak Landfill	1189 Henrico Rd	33.6712	-84.3388	562212	Nitrogen Oxides	Landfill	0.306	2011	6.83
TRICO	Unknown	33.6643	-84.3391	48811	Nitrogen Oxides	Airport	0.0059495	2011	7.22
Griffin Industries, Inc. of Georgia	4413 Tanners Church Rd	33.634	-84.3134	311613	Nitrogen Oxides		11.288	2011	8.10
HULSEY	Unknown	33.7617	-84.3328	488210	Nitrogen Oxides	Rail Yard	56.0618	2011	8.96
DEKALB POLICE DEPT	Unknown	33.7773	-84.2424	48811	Nitrogen Oxides	Airport	0.0059495	2011	9.20
HULSEY	Unknown	33.7542	-84.3572	488210	Nitrogen Oxides	Rail Yard	28.4973	2011	9.97
DE KALB GENERAL HOSPITAL	Unknown	33.7897	-84.2822	48811	Nitrogen Oxides	Airport	0.0059495	2011	10.18
EMORY UNIVERSITY HOSPITAL	Unknown	33.7923	-84.3255	48811	Nitrogen Oxides	Airport	0.0059495	2011	11.52
EGLESTON HOSPITAL	Unknown	33.7944	-84.3203	48811	Nitrogen Oxides	Airport	0.0059495	2011	11.54
GRADY MEMORIAL HOSPITAL	Unknown	33.7522	-84.3822	48811	Nitrogen Oxides	Airport	0.0059495	2011	11.76
SMITH	Unknown	33.7534	-84.1621	48811	Nitrogen Oxides	Airport	0.0059495	2011	11.91
STATE CAPITAL PARKING LOT	Unknown	33.7484	-84.3874	48811	Nitrogen Oxides	Airport	0.0059495	2011	11.97
Emory University	201 Dowman Drive	33.8033	-84.3189	611310	Nitrogen Oxides	Institutional (school, hospital, prison, etc.)	31.08	2011	12.41
CRAWFORD W. LONG MEMORIAL HOSPITAL	Unknown	33.7687	-84.3863	48811	Nitrogen Oxides	Airport	0.0059495	2011	13.09
HILTON GARDEN INN DOWNTOWN	Unknown	33.7619	-84.3956	48811	Nitrogen Oxides	Airport	0.0059495	2011	13.38
Owens Brockway Glass Container Inc.	3107 Sylvan Rd	33.6694	-84.4191	327213	Nitrogen Oxides	Glass Plant	350.46	2011	13.93
THE COCA COLA COMPANY	Unknown	33.7709	-84.3988	48811	Nitrogen Oxides	Airport	0.0059495	2011	14.17
Transcontinental Gas Pipe Line Company,	683 Valley Hill Rd.	33.5711	-84.2533	486210	Nitrogen Oxides	Compressor station	2258.817	2011	14.28

LLC - Compressor Station 120									
Delta Air Lines Inc - Atlanta Station	1500 Aviation Blvd	33.6433	-84.4139	481111	Nitrogen Oxides		5.516	2011	14.44
SOUTH FULTON MEDICAL CENTER	Unknown	33.6796	-84.4271	48811	Nitrogen Oxides	Airport	0.0059495	2011	14.44
Delta Airlines - Technical Operations	1775 Aviation Blvd	33.6431	-84.4144	481111	Nitrogen Oxides		87.586	2011	14.49
Dart Container Corporation of Georgia	2120 Lithonia Industrial Blvd.	33.7234	-84.1185	326140	Nitrogen Oxides		14.91	2011	14.53
Delta Airlines - General Office Facilities	1030 Delta Blvd	33.6575	-84.4231	481111	Nitrogen Oxides		6.414	2011	14.64
FORT MCPHERSON	Unknown	33.7125	-84.4306	48811	Nitrogen Oxides	Airport	0.0059495	2011	14.69
Woodbridge Foam Corp	2399 STONE MOUNTAIN-LITHONIA	33.7377	-84.1199	326150	Nitrogen Oxides		7.92	2011	14.79
INDUSTRY	Unknown	33.6895	-84.4328	488210	Nitrogen Oxides	Rail Yard	34.7264	2011	14.85
PPG Industries Inc.	1377 Oakliegh Drive	33.6892	-84.4342	325510	Nitrogen Oxides		1.15	2011	14.98
WSB-TV	Unknown	33.7993	-84.3856	48811	Nitrogen Oxides	Airport	0.0059495	2011	15.32
WGCL-TV	Unknown	33.7874	-84.4011	48811	Nitrogen Oxides	Airport	0.0059495	2011	15.45
Sherwin-Williams Co	6795 South Main St	33.5715	-84.3427	325510	Nitrogen Oxides		1.127	2011	15.53
ROLLINS	Unknown	33.8151	-84.3719	48811	Nitrogen Oxides	Airport	0.0000325	2011	15.88
The William B Hartsfield International Airport	Unknown	33.6407	-84.4297	48811	Nitrogen Oxides	Airport	4315.5074	2011	15.89
New WinCup Stone Mountain	4640 Lewis Road	33.8296	-84.1989	326140	Nitrogen Oxides		8.363	2011	16.10
BRIDGE BUILDING	Unknown	33.8101	-84.3958	48811	Nitrogen Oxides	Airport	0.0059495	2011	16.84
SOUTHERN RGNL MEDICAL CENTER	Unknown	33.5796	-84.3891	48811	Nitrogen Oxides	Airport	0.0059495	2011	17.05
STONE MOUNTAIN PARK PUBLIC SAFETY	Unknown	33.8189	-84.1506	48811	Nitrogen Oxides	Airport	0.0059495	2011	17.51
STONE MOUNTAIN PARK SKYLIFT	Unknown	33.8131	-84.1408	48811	Nitrogen Oxides	Airport	0.0059495	2011	17.64
WILLIAMS	Unknown	33.8208	-84.1281	48811	Nitrogen Oxides	Airport	0.0059495	2011	19.07

CLAYTON	Unknown	33.5381	-84.3472	48811	Nitrogen Oxides	Airport	0.0059495	2011	19.12
HOWELLS	Unknown	33.8126	-84.4322	488210	Nitrogen Oxides	Rail Yard	195.804	2011	19.46
INMANN	Unknown	33.7958	-84.4493	488210	Nitrogen Oxides	Rail Yard	230.552	2011	19.59
TILFORD	Unknown	33.7964	-84.45	488210	Nitrogen Oxides	Rail Yard	144.021	2011	19.68
Dekalb-Peachtree	Unknown	33.8736	-84.3057	48811	Nitrogen Oxides	Airport	6.0189119	2011	19.71
BERRY HILL	Unknown	33.5356	-84.1791	48811	Nitrogen Oxides	Airport	0.1715849	2011	20.08
BOLTON	Unknown	33.8036	-84.4504	488210	Nitrogen Oxides	Rail Yard	131.38	2011	20.16
LT WORLD	Unknown	33.7675	-84.0683	48811	Nitrogen Oxides	Airport	0.0035753	2011	20.40
Cellofoam North America, Inc.	1961 Industrial Blvd.	33.6772	-84.051	326140	Nitrogen Oxides		4.06	2011	20.65
Tegant Diversified Brands, Inc.	1830 Rockdale Industrial Blvd	33.6751	-84.0473	326140	Nitrogen Oxides		1.597	2011	21.02
HENRY MEDICAL CENTER INC	Unknown	33.5112	-84.2271	48811	Nitrogen Oxides	Airport	0.0059495	2011	21.25
GRANT	Unknown	33.5275	-84.1569	48811	Nitrogen Oxides	Airport	0.0030072	2011	21.83
R. M. Clayton Water Reclamation Center	2400 Bolton Road	33.8233	-84.4553	221320	Nitrogen Oxides	Wastewater Treatment Facility	52.63	2011	21.85
DORAVILLE	Unknown	33.8988	-84.2871	488210	Nitrogen Oxides	Rail Yard	35.2962	2011	22.32
LEGACY MEDICAL CENTER	Unknown	33.7403	-84.5114	48811	Nitrogen Oxides	Airport	0.0059495	2011	22.56
HOWELLS	Unknown	33.8291	-84.4623	488210	Nitrogen Oxides	Rail Yard	39.7067	2011	22.76
Ga Power Company - Plant McDonough/Atkinson	5551 S Cobb Dr.	33.8244	-84.4749	221112	Nitrogen Oxides	Electricity Generation via Combustion	3162.255	2011	23.36
NATIONAL EMS HEADQUARTERS	Unknown	33.6497	-84.0214	48811	Nitrogen Oxides	Airport	0.0059495	2011	23.88
Motiva Enterprises LLC	4127 Winters Chapel	33.914	-84.27	424710	Nitrogen Oxides	Petroleum Storage Facility	10.07	2011	23.97
Magellan Terminal Holdings, L.P. - Doraville Terminal	4149 Winters Chapel Road	33.9157	-84.273	493190	Nitrogen Oxides		6.19	2011	24.16
MagellanTerminal Holdings, L.P. - Doraville II Terminal	2797 Woodwin Road	33.9168	-84.2741	493190	Nitrogen Oxides	Petroleum Storage Facility	3.7	2011	24.28
CHILDRENS HEALTH CARE ATL AT SCOTTISH RITE	Unknown	33.9072	-84.3542	48811	Nitrogen Oxides	Airport	0.0059495	2011	24.40

NORTHSIDE HOSPITAL	Unknown	33.9095	-84.3527	48811	Nitrogen Oxides	Airport	0.0059495	2011	24.60
SAINT JOSEPH'S HOSPITAL	Unknown	33.9108	-84.3508	48811	Nitrogen Oxides	Airport	0.0059495	2011	24.69
DIAMOND S	Unknown	33.4758	-84.2769	48811	Nitrogen Oxides	Airport	0.0030072	2011	24.76
Boral Bricks - Atlanta Plant	5472 Oakdale Road	33.8203	-84.499	327120	Nitrogen Oxides	Brick, Structural Clay, or Clay Ceramics Plant	5.18	2011	24.92
ROCKDALE HOSPITAL	Unknown	33.6805	-84.0026	48811	Nitrogen Oxides	Airport	0.0059495	2011	25.07
Fulton County Airport-B	Unknown	33.78	-84.5274	48811	Nitrogen Oxides	Airport	2.5377127	2011	25.24
RUFFWOOD	Unknown	33.8825	-84.4358	48811	Nitrogen Oxides	Airport	0.0059495	2011	25.42
CALEB	Unknown	33.7812	-84.0146	48811	Nitrogen Oxides	Airport	0.0059495	2011	25.58
RABBIT HOLE	Unknown	33.5381	-84.4744	48811	Nitrogen Oxides	Airport	0.0059495	2011	25.82
Atlanta Utoy Creek Wpcp	800 Selig Dr. S.W.	33.7422	-84.5543	221320	Nitrogen Oxides		12.78	2011	26.50
Visy Paper Inc	1800A Sarasota Parkway	33.6603	-83.9889	322130	Nitrogen Oxides	Pulp and Paper Plant	45.24	2011	26.60
GALLERIA	Unknown	33.8851	-84.4627	48811	Nitrogen Oxides	Airport	0.0059495	2011	27.18
STONEWALL	Unknown	33.6009	-84.5491	48811	Nitrogen Oxides	Airport	0.0059495	2011	27.79
LOLA LANDING	Unknown	33.7301	-83.9746	48811	Nitrogen Oxides	Airport	0.0028691	2011	27.80
WHISPERING PINES	Unknown	33.7823	-83.9888	48811	Nitrogen Oxides	Airport	0.0052536	2011	27.86
LENORA	Unknown	33.8046	-83.9963	48811	Nitrogen Oxides	Airport	0.0089096	2011	28.15
SMYRNA HOSPITAL	Unknown	33.8598	-84.5138	48811	Nitrogen Oxides	Airport	0.0059495	2011	28.61
COLEMAN FIELD	Unknown	33.5262	-84.5022	48811	Nitrogen Oxides	Airport	0.0033277	2011	28.61
INTERSTATE NORTH	Unknown	33.9009	-84.4692	48811	Nitrogen Oxides	Airport	0.0059495	2011	28.92
BECK FIELD	Unknown	33.5194	-84.5144	48811	Nitrogen Oxides	Airport	0.0033277	2011	29.96
WALKER FIELD	Unknown	33.4521	-84.4094	48811	Nitrogen Oxides	Airport	0.0000325	2011	30.18
GWINNETT COMM HOSP D/B/A EASTSIDE MED CNTR	Unknown	33.875	-84.0206	48811	Nitrogen Oxides	Airport	0.0059495	2011	30.46
MC LENDON	Unknown	33.4915	-84.4894	48811	Nitrogen Oxides	Airport	0.0028941	2011	30.54
Briggs & Stratton Power Products Group, LLC	535 Macon Hwy	33.4331	-84.1462	333112	Nitrogen Oxides		7.58	2011	31.75

ZIPs	Unknown	33.4529	-84.0952	48811	Nitrogen Oxides	Airport	0.0000325	2011	31.87
HCA PARKWAY MEDICAL CENTER	Unknown	33.7781	-84.6114	48811	Nitrogen Oxides	Airport	0.0059495	2011	32.55
HARTRAMPF	Unknown	33.9895	-84.3321	48811	Nitrogen Oxides	Airport	0.0059495	2011	32.82
DOBBINS AIR RESERVE BASE (ATLANTA NAS)	Unknown	33.9153	-84.5163	48811	Nitrogen Oxides	Airport	0.0160069	2011	32.98
Toppan Interamerica Inc	1131 Hwy 155 South	33.4049	-84.17	323111	Nitrogen Oxides	Printing/Publishing Facility	5.771	2011	34.00
Lockheed Martin Aeronautics Company	86 South Cobb Drive	33.9288	-84.5274	336411	Nitrogen Oxides	Aircraft, Aerospace, or Related Parts Plant	29.5017	2011	34.78
Clayton County - Tara F	Unknown	33.3891	-84.3324	48811	Nitrogen Oxides	Airport	1.6678051	2011	34.84
COBB GENERAL HOSPITAL	Unknown	33.8573	-84.6072	48811	Nitrogen Oxides	Airport	0.0059495	2011	35.61
MILLER FARM	Unknown	33.6596	-84.663	48811	Nitrogen Oxides	Airport	0.002924	2011	36.37
Owens Corning Insulating Systems, LLC	7000 McLarin Road	33.5391	-84.6175	327993	Nitrogen Oxides	Mineral Wool Plant	19.68	2011	36.52
SMITH FIELD	Unknown	33.5081	-84.6005	48811	Nitrogen Oxides	Airport	0.0028941	2011	37.01
WILLOW POND AVIATION INC	Unknown	33.4237	-84.4999	48811	Nitrogen Oxides	Airport	0.0087464	2011	37.10
Caraustar Industries Inc	3400 Joe Jerkins Blvd	33.8194	-84.6476	322130	Nitrogen Oxides	Pulp and Paper Plant	176.44	2011	37.18
CALHOUN	UNKNOWN	34.0044	-84.4478	48811	Nitrogen Oxides	Airport	0.0059495	2011	37.67
GWINNETT MEDICAL CENTER	Unknown	33.9639	-84.0181	48811	Nitrogen Oxides	Airport	0.0059495	2011	37.74
ADAMS	Unknown	33.3971	-84.4602	48811	Nitrogen Oxides	Airport	0.0000325	2011	37.75
ROSWELL ANIMAL HOSPITAL	Unknown	34.0309	-84.356	48811	Nitrogen Oxides	Airport	0.0059495	2011	37.76
Marathon Petroleum Company LP - Powder Springs Terminal	3895 Anderson Farm Road	33.8624	-84.6311	424710	Nitrogen Oxides	Petroleum Storage Facility	1.41	2011	37.81
CHATTAHOOCHEE AIR PARK	Unknown	33.6621	-84.6805	48811	Nitrogen Oxides	Airport	0.0031408	2011	37.95
MALLARDS LANDING	Unknown	33.3657	-84.1652	48811	Nitrogen Oxides	Airport	0.0071256	2011	38.32
SOUTH FULTON	Unknown	33.5376	-84.6388	48811	Nitrogen Oxides	Airport	0.306978	2011	38.33
POOLE FARM	Unknown	33.6807	-83.8527	48811	Nitrogen Oxides	Airport	0.0028863	2011	38.91

HALLS FLYING RANCH	Unknown	33.3562	-84.3671	48811	Nitrogen Oxides	Airport	0.0041558	2011	39.05
KENNESTONE	Unknown	33.9676	-84.551	48811	Nitrogen Oxides	Airport	0.0059495	2011	39.45
Covington Muni	Unknown	33.6325	-83.8496	48811	Nitrogen Oxides	Airport	1.029506	2011	39.84
FiberVisions Incorporated	7101 Alcovy Rd	33.6115	-83.8498	325220	Nitrogen Oxides		15.6752	2011	40.32
SPRING VALLEY FARM	Unknown	33.7971	-83.8513	48811	Nitrogen Oxides	Airport	0.0043849	2011	40.48
Pactiv Corp	8170 Alcovy Road	33.6144	-83.8459	326140	Nitrogen Oxides		0.976	2011	40.59
NEWTON MEDICAL CENTER	Unknown	33.6014	-83.8486	48811	Nitrogen Oxides	Airport	0.0059495	2011	40.71
PECAN PATCH AIRSTRIP	Unknown	33.3314	-84.2667	48811	Nitrogen Oxides	Airport	0.0034947	2011	40.82
Dolco Packaging	252 Hosea Road	33.9705	-83.9721	326140	Nitrogen Oxides		1.2	2011	41.06
MATTHEWS	Unknown	33.9809	-84.5633	48811	Nitrogen Oxides	Airport	0.0059495	2011	41.31
Gwinnett County - Brisc	Unknown	33.9745	-83.9713	48811	Nitrogen Oxides	Airport	3.3847462	2011	41.44
BEAVERBROOK AERODROME	Unknown	33.3251	-84.2983	48811	Nitrogen Oxides	Airport	0.0041451	2011	41.58
EMORY JOHNS CREEK HOSPITAL	Unknown	34.0675	-84.1775	48811	Nitrogen Oxides	Airport	0.0059495	2011	41.96
SUNSET STRIP	Unknown	33.7334	-83.8188	48811	Nitrogen Oxides	Airport	0.0030843	2011	42.16
General Mills Operations, Inc	15200 Ind. Park Blvd	33.6226	-83.8259	311230	Nitrogen Oxides		22.14	2011	42.20
RUST AIRSTRIP	Unknown	33.3329	-84.4008	48811	Nitrogen Oxides	Airport	0.0156699	2011	42.35
COUNTY POLICE	Unknown	33.9873	-83.9738	48811	Nitrogen Oxides	Airport	0.0027973	2011	42.35
WELLSTAR DOUGLAS HOSPITAL	Unknown	33.7389	-84.7328	48811	Nitrogen Oxides	Airport	0.0059495	2011	42.79
ANDY FIELDS	Unknown	33.4642	-84.6633	48811	Nitrogen Oxides	Airport	0.0029182	2011	44.59
TWO ROCKS	Unknown	33.4736	-84.6736	48811	Nitrogen Oxides	Airport	0.0033517	2011	44.77
Avery Dennison - Fasson Roll North America	513 Highway 74 S	33.3747	-84.5722	322220	Nitrogen Oxides		7.4396	2011	45.46
RIVER BEND	Unknown	33.3044	-84.1367	48811	Nitrogen Oxides	Airport	0.0028447	2011	45.60
MATHIS	Unknown	34.1012	-84.161	48811	Nitrogen Oxides	Airport	0.1892135	2011	45.95
WINDY HILL	Unknown	33.5468	-83.8055	48811	Nitrogen Oxides	Airport	0.0037534	2011	46.43

Cobb County-Mc Collum F	Unknown	34.0134	-84.6055	48811	Nitrogen Oxides	Airport	2.3901842	2011	46.59
Peachtree City-Falcon F	Unknown	33.3573	-84.5718	48811	Nitrogen Oxides	Airport	2.576358	2011	46.99
Atlanta Regional Falcon Field	Dividend Drive	33.3572	-84.5719	48811	Nitrogen Oxides	Airport	0.0064478	2011	47.00
ALCOVY	Unknown	33.675	-83.7631	48811	Nitrogen Oxides	Airport	0.0028675	2011	47.22
CAFFREY	Unknown	33.8842	-84.7339	48811	Nitrogen Oxides	Airport	0.0059495	2011	47.36
BECKER	UNKNOWN	33.7664	-83.7631	48811	Nitrogen Oxides	Airport	0.0059495	2011	47.73
AIR ACRES	Unknown	34.1059	-84.4485	48811	Nitrogen Oxides	Airport	0.0084383	2011	48.12
NEELY FARMS	Unknown	33.5314	-83.7919	48811	Nitrogen Oxides	Airport	0.0031031	2011	48.24
ROLLING MEADOWS AIRFIELD	Unknown	33.3843	-84.6319	48811	Nitrogen Oxides	Airport	0.003135	2011	48.26
BROOK BRIDGE AERODROME	Unknown	33.2768	-84.4108	48811	Nitrogen Oxides	Airport	0.0078299	2011	48.61
STONEY POINT FIELD	Unknown	34.1326	-84.1994	48811	Nitrogen Oxides	Airport	0.0092602	2011	48.74
PINEBROOK ESTATES	Unknown	33.2598	-84.3494	48811	Nitrogen Oxides	Airport	0.0030612	2011	49.29
PINEWOOD	Unknown	33.7821	-84.8008	48811	Nitrogen Oxides	Airport	0.0174282	2011	49.71
PINETREE	UNKNOWN	34.1458	-84.2297	48811	Nitrogen Oxides	Airport	0.0059495	2011	49.90
HOLLY FARM	Unknown	34.14	-84.3781	48811	Nitrogen Oxides	Airport	0.0030196	2011	50.05
BUFORD PRECINCT	Unknown	34.0979	-84.0124	48811	Nitrogen Oxides	Airport	0.0059495	2011	50.50
CEDAR RIDGE	Unknown	33.2551	-84.4002	48811	Nitrogen Oxides	Airport	0.009347	2011	50.70
KENLEY FIELD	Unknown	33.269	-84.4971	48811	Nitrogen Oxides	Airport	0.0039777	2011	52.09
WALTON COUNTY HOSPITAL	Unknown	33.7832	-83.718	48811	Nitrogen Oxides	Airport	0.0059495	2011	52.15
BIG 'T'	Unknown	33.2835	-84.5388	48811	Nitrogen Oxides	Airport	0.0070366	2011	52.33
Griffin-Spalding County	Unknown	33.227	-84.2749	48811	Nitrogen Oxides	Airport	0.42896	2011	52.43
Goodyear Tire & Rubber Company	One Wingfoot Way	33.6651	-83.7074	326211	Nitrogen Oxides		3.91	2011	52.44
SEVEN LAKES	Unknown	33.3246	-83.9163	48811	Nitrogen Oxides	Airport	0.0084331	2011	53.10
LANIER	Unknown	34.1689	-84.1711	48811	Nitrogen Oxides	Airport	0.0059495	2011	53.14
Yamaha Motor Manufacturing	1000 Highway 34 East	33.4026	-84.7328	336999	Nitrogen Oxides		6.707	2011	53.85

Corporation									
Monroe-Walton County	Unknown	33.7815	-83.6936	48811	Nitrogen Oxides	Airport	0.44612	2011	54.34
MPC Generating LLC	208 Cherry Hill Rd.	33.8114	-83.6953	221112	Nitrogen Oxides	Electricity Generation via Combustion	11.4	2011	54.84
Walton County Power LLC	920 Birch Street	33.8148	-83.6953	221112	Nitrogen Oxides	Electricity Generation via Combustion	104.9	2011	54.92
Doyle Generating Facility	1318 Gratis Street	33.8375	-83.6952	221112	Nitrogen Oxides	Electricity Generation via Combustion	230.1	2011	55.57
MAC	Unknown	34.2061	-84.2953	48811	Nitrogen Oxides	Airport	0.0059495	2011	56.48
Johns Manville Corp. Winder Facility	713 Bankhead Hwy	33.9942	-83.7704	327993	Nitrogen Oxides		27.33	2011	56.86
SLEEPY HOLLOW	Unknown	33.6932	-83.6577	48811	Nitrogen Oxides	Airport	0.0030843	2011	56.90
STOCKMAR	Unknown	33.7566	-84.8851	48811	Nitrogen Oxides	Airport	0.0105105	2011	57.00
3-M'S	Unknown	33.1858	-84.3681	48811	Nitrogen Oxides	Airport	0.0027908	2011	57.69
AERIE	Unknown	33.7615	-83.6527	48811	Nitrogen Oxides	Airport	0.003301	2011	57.76
PEACH STATE	Unknown	33.1835	-84.3716	48811	Nitrogen Oxides	Airport	0.1096971	2011	57.99
GABLE BRANCH	Unknown	33.2276	-84.5444	48811	Nitrogen Oxides	Airport	0.0033517	2011	58.11
FLYING H RANCH INC	Unknown	33.1978	-84.0844	48811	Nitrogen Oxides	Airport	0.0000325	2011	58.35
LUCKY LAIRDS LANDING	Unknown	33.6409	-84.9049	48811	Nitrogen Oxides	Airport	0.0028987	2011	58.85
PAULDING MEMORIAL HOSPITAL	Unknown	33.9198	-84.8527	48811	Nitrogen Oxides	Airport	0.0059495	2011	58.97
SMISSON FIELD	Unknown	33.5706	-84.8978	48811	Nitrogen Oxides	Airport	0.0037658	2011	59.59
ERLEN	Unknown	33.5706	-84.8983	48811	Nitrogen Oxides	Airport	0.0028987	2011	59.64
TOLAND	Unknown	33.164	-84.2135	48811	Nitrogen Oxides	Airport	0.0000325	2011	59.68
S & S LANDING STRIP	Unknown	33.1622	-84.3206	48811	Nitrogen Oxides	Airport	0.0030076	2011	59.80
MC DONALD	Unknown	34.204	-84.0513	48811	Nitrogen Oxides	Airport	0.0059495	2011	59.81
KINTAIL FARM	Unknown	33.8256	-83.6397	48811	Nitrogen Oxides	Airport	0.0030843	2011	60.20
KOLIBRI	Unknown	33.5782	-84.9069	48811	Nitrogen Oxides	Airport	0.002924	2011	60.22
EAGLES LANDING	Unknown	33.1601	-84.3652	48811	Nitrogen Oxides	Airport	0.0088598	2011	60.48
LYONS LANDING	Unknown	33.5732	-84.9097	48811	Nitrogen Oxides	Airport	0.0031155	2011	60.60

PANTHER CREEK	Unknown	33.4667	-84.8661	48811	Nitrogen Oxides	Airport	0.0035685	2011	60.71
HUMANA HOSPITAL-NEWNAN	Unknown	33.3926	-84.8172	48811	Nitrogen Oxides	Airport	0.0059495	2011	60.85
Bon L Manufacturing Company, Inc.	25 Bonnell Street	33.3807	-84.8187	331318	Nitrogen Oxides		25.293	2011	61.72
KENNEDY INTRANATIONAL	Unknown	33.5265	-83.638	48811	Nitrogen Oxides	Airport	0.0027908	2011	61.81
SHADE TREE	Unknown	33.1618	-84.4533	48811	Nitrogen Oxides	Airport	0.0030076	2011	61.98
DIAMOND R RANCH	Unknown	33.6371	-84.9388	48811	Nitrogen Oxides	Airport	0.0000325	2011	62.02
B & L STRIP	Unknown	33.1562	-84.431	48811	Nitrogen Oxides	Airport	0.0000325	2011	62.06
HAWKS RIDGE	Unknown	34.2578	-84.2744	48811	Nitrogen Oxides	Airport	0.0059495	2011	62.20
Printpack Inc	297 Andrew Way	33.7425	-84.9458	326112	Nitrogen Oxides		6.99	2011	62.45
BARROW MEDICAL CENTER	Unknown	34.0137	-83.7116	48811	Nitrogen Oxides	Airport	0.0059495	2011	62.55
FAGUNDES FIELD	Unknown	33.199	-84.5838	48811	Nitrogen Oxides	Airport	0.0027957	2011	62.59
KITCHENS FIELD	Unknown	33.1346	-84.2541	48811	Nitrogen Oxides	Airport	0.0027908	2011	62.72
Newnan Coweta County	Unknown	33.3121	-84.7703	48811	Nitrogen Oxides	Airport	0.892239	2011	63.04
VINTAGE FLD	Unknown	33.1335	-84.3774	48811	Nitrogen Oxides	Airport	0.0034411	2011	63.57
EBENEEZER	Unknown	34.2423	-84.0571	48811	Nitrogen Oxides	Airport	0.0029744	2011	63.66
Ga Power Company - Plant Yates	708 Dyer Rd	33.4626	-84.9018	221112	Nitrogen Oxides	Electricity Generation via Combustion	6762.74	2011	63.91
Winder-Barrow	Unknown	33.9823	-83.6681	48811	Nitrogen Oxides	Airport	1.000515	2011	64.14
CIRCLE T	Unknown	33.2057	-83.9124	48811	Nitrogen Oxides	Airport	0.0027976	2011	64.18
NORTHSIDE HOSPITAL-CHEROKEE	Unknown	34.2467	-84.4992	48811	Nitrogen Oxides	Airport	0.0059495	2011	64.44
MONTICELLO SKY RANCH	Unknown	33.3325	-83.7269	48811	Nitrogen Oxides	Airport	0.0176115	2011	64.93
Atlanta Gas Light Company	12860 East Cherokee Drive	34.2767	-84.373	221210	Nitrogen Oxides		29.614	2011	64.96
APPLE 1	Unknown	34.2603	-84.0664	48811	Nitrogen Oxides	Airport	0.0059495	2011	65.30
TAYLOR FIELD	Unknown	33.7243	-83.5668	48811	Nitrogen Oxides	Airport	0.0032243	2011	65.36
APALACHEE BLUFF AIRPARK	Unknown	33.8593	-83.5877	48811	Nitrogen Oxides	Airport	0.0028675	2011	65.79
FLYING 'H' RANCH	Unknown	33.1148	-84.4491	48811	Nitrogen Oxides	Airport	0.0027908	2011	66.93

American Proteins, Inc.	14938 E. Cherokee Drive	34.2944	-84.3937	311613	Nitrogen Oxides	Food Products Processing Plant	2.501	2011	67.20
FLYING D	Unknown	33.1012	-84.3935	48811	Nitrogen Oxides	Airport	0.0030076	2011	67.35
DBAKS	Unknown	33.2736	-84.7933	48811	Nitrogen Oxides	Airport	0.003135	2011	67.55
MCINTOSH FIELD	Unknown	33.4559	-84.943	48811	Nitrogen Oxides	Airport	0.0031155	2011	67.70
American Proteins Inc	4990 Leland Drive	34.2816	-84.058	311613	Nitrogen Oxides		34.52	2011	67.80
BEAVER TRAIL	Unknown	34.2542	-83.9685	48811	Nitrogen Oxides	Airport	0.0059495	2011	67.86
WILSON INTL	Unknown	33.6584	-85.0099	48811	Nitrogen Oxides	Airport	0.0028987	2011	68.36
RIDGEVIEW FARM	Unknown	33.0835	-84.3583	48811	Nitrogen Oxides	Airport	0.0755076	2011	68.84
FALCONS AERIE	Unknown	33.5773	-85.003	48811	Nitrogen Oxides	Airport	0.0028987	2011	68.94
MEADOWLARK	Unknown	33.0873	-84.4052	48811	Nitrogen Oxides	Airport	0.0047414	2011	69.06
Chemical Products Corporation	102 Old Mill Rd	34.1509	-84.786	325180	Nitrogen Oxides		22.6711	2011	69.09
Jordan Forest Products	752 Grove Street	33.0796	-84.2011	321113	Nitrogen Oxides	Lumber/Sawmill	0.5084	2011	69.14
ANTIQUE ACRES	Unknown	33.1001	-84.0585	48811	Nitrogen Oxides	Airport	0.0030082	2011	69.44
Cherokee County	Unknown	34.3106	-84.4239	48811	Nitrogen Oxides	Airport	0.617704	2011	69.48
BROKEN RANCH	Unknown	33.1548	-83.8988	48811	Nitrogen Oxides	Airport	0.0028009	2011	69.70
Georgia-Pacific - Monticello MDF	791 Georgia-Pacific Rd.	33.2777	-83.7023	321219	Nitrogen Oxides		13.7	2011	70.62
DREAM TEAM	Unknown	33.5975	-83.5178	48811	Nitrogen Oxides	Airport	0.0000325	2011	70.77
DRESDEN	Unknown	33.3448	-84.9113	48811	Nitrogen Oxides	Airport	0.0000325	2011	71.07
Cartersville	Unknown	34.1231	-84.8487	48811	Nitrogen Oxides	Airport	2.3647502	2011	71.10
BROWN FIELD	Unknown	33.0571	-84.3424	48811	Nitrogen Oxides	Airport	0.0030076	2011	71.61
MURPHY'S LANDING	Unknown	33.2587	-84.8447	48811	Nitrogen Oxides	Airport	0.0029182	2011	72.15
C&R FARM	Unknown	33.5043	-85.0172	48811	Nitrogen Oxides	Airport	0.0031155	2011	72.25
NORTH	Unknown	34.1753	-84.805	488210	Nitrogen Oxides	Rail Yard	15.1861	2011	72.27
SAPA Extruder, Inc.	2905 OLD OAKWOOD RD	34.2523	-83.8558	331318	Nitrogen Oxides		10.369	2011	72.60
AIKEN FIELD	Unknown	34.1723	-83.731	48811	Nitrogen Oxides	Airport	0.0028405	2011	72.62
BARNESVILLE	Unknown	33.052	-84.1601	488210	Nitrogen Oxides	Rail Yard	0.0992669	2011	72.64
FLYING N ESTATES	Unknown	33.1773	-84.7485	48811	Nitrogen Oxides	Airport	0.0071305	2011	72.85

JUNTA	Unknown	34.1815	-84.8131	488210	Nitrogen Oxides	Rail Yard	50.1062	2011	73.28
AYRESOUTH	Unknown	33.7701	-85.0608	48811	Nitrogen Oxides	Airport	0.0049709	2011	73.31
THACKER FIELD	Unknown	33.0448	-84.3983	48811	Nitrogen Oxides	Airport	0.0032243	2011	73.61
Cottrell, Inc.	2125 Candler Rd	34.2287	-83.7924	336212	Nitrogen Oxides		0.35	2011	73.74
TAKLE FIELD	Unknown	33.0418	-84.4124	48811	Nitrogen Oxides	Airport	0.0000325	2011	74.16
SOUTHERN OAKS	Unknown	33.7314	-83.4697	48811	Nitrogen Oxides	Airport	0.0027908	2011	74.36
WINDRIFT AERODROME	Unknown	33.0418	-84.4321	48811	Nitrogen Oxides	Airport	0.0036579	2011	74.50
Southwire Company Carrollton Building Wire Plant	One Southwire Drive	33.5656	-85.068	335929	Nitrogen Oxides		0.003	2011	75.10
Southwire Company - Cofer Technology Center	111 Development Drive	33.5692	-85.069	541380	Nitrogen Oxides		0.001	2011	75.11
Southwire Co-Corp Energy Mgmt	One Southwire Drive	33.5634	-85.069	335929	Nitrogen Oxides		0.611	2011	75.24
Southwire Company Copper Rod Mill	One Southwire Drive	33.5644	-85.07	331420	Nitrogen Oxides	Fabricated Metal Products Plant	12.552	2011	75.31
Southwire Company Carrollton Utility Products Plant	One Southwire Drive	33.567	-85.0724	335929	Nitrogen Oxides		5.054	2011	75.47
TANNER MEDICAL CENTER	Unknown	33.5701	-85.0749	48811	Nitrogen Oxides	Airport	0.0059495	2011	75.63
Madison Muni	Unknown	33.6121	-83.4604	48811	Nitrogen Oxides	Airport	0.1990401	2011	75.79
RAMADA INN ANTEBELLUM	Unknown	33.5535	-83.4716	48811	Nitrogen Oxides	Airport	0.0059495	2011	75.90
Lee Gilmer Memorial	Unknown	34.2729	-83.8268	48811	Nitrogen Oxides	Airport	1.3718369	2011	75.96
Ga Power Company - Plant Bowen	317 Covered Bridge Rd	34.1253	-84.9206	221112	Nitrogen Oxides	Electricity Generation via Combustion	8371.175	2011	76.34
GEORGIA PUBLIC SAFETY TRAINING CENTER	Unknown	33.0601	-83.9638	48811	Nitrogen Oxides	Airport	0.0059495	2011	76.56
Hawk Road Energy Facility	624 Hawk Road	33.3584	-84.9913	221112	Nitrogen Oxides	Electricity Generation via Combustion	8.2	2011	76.59
LATHAM CREEK	Unknown	34.3365	-83.9435	48811	Nitrogen Oxides	Airport	0.0059495	2011	77.16
Ga Power Company - Plant Wansley	1371 Liberty Church Road	33.4131	-85.0336	221112	Nitrogen Oxides	Electricity Generation via Combustion	2831.415	2011	77.32
Gerdaul Ameristeel US Inc.	384 Old Grassdale Rd	34.2428	-84.7976	331221	Nitrogen Oxides	Steel Mill	79.82	2011	77.50

Tenaska Georgia Generating Station	2100 George Brown Road	33.3533	-84.9992	221112	Nitrogen Oxides	Electricity Generation via Combustion	30.1399	2011	77.51
Anheuser-Busch Inc	100 Busch Drive	34.2577	-84.7816	312120	Nitrogen Oxides	Breweries/Distilleries/Wineries	102.255	2011	77.90
Municipal Electric Authority Of Ga-Wansley	3461 Hollingworth Ferry Rd.	33.4071	-85.0379	221112	Nitrogen Oxides	Electricity Generation via Combustion	67.27	2011	77.96
Chattahoochee Energy Facility	3461 Hollingsworth Ferry Road	33.4069	-85.0386	221112	Nitrogen Oxides	Electricity Generation via Combustion	76.2	2011	78.03
Cargill Inc	862 West Ridge Rd	34.2901	-83.8102	311224	Nitrogen Oxides	Food Products Processing Plant	108.243	2011	78.40
M K FIELD	UNKNOWN	33.1687	-84.8304	48811	Nitrogen Oxides	Airport	0.0027957	2011	78.41
Meggitt (Rockmart), Inc.	669 Goodyear St.	34.0026	-85.0388	326299	Nitrogen Oxides		0.008	2011	78.41
Decostar Industries	1 Decoma Dr	33.6066	-85.1144	336390	Nitrogen Oxides		6.534	2011	78.58
Georgia-Pacific Wood Products LLC (Madison Plywood)	1400 Woodkraft Rd.	33.6142	-83.425	321212	Nitrogen Oxides	Wood Board Manufacturing Plant	207.38	2011	79.02
HAY FIELD	Unknown	33.5172	-83.4397	48811	Nitrogen Oxides	Airport	0.0000325	2011	79.73
ETOWAH FIELDS	Unknown	34.1753	-84.9244	48811	Nitrogen Oxides	Airport	0.0000325	2011	80.16
MONROE COUNTY HOSPITAL	Unknown	33.0312	-83.9449	48811	Nitrogen Oxides	Airport	0.0059495	2011	80.20
Milliken & Company - New Holland Plant	1750 Jesse Jewell Parkway	34.3069	-83.8007	313110	Nitrogen Oxides		5.72	2011	80.44
Huber, J.M., Corporation	10322 Ga Hwy 53 E	34.4214	-84.3268	212312	Nitrogen Oxides		1.5222	2011	80.54
LITTLE TOBESOFKEE CREEK RANCH	Unknown	32.9839	-84.0956	48811	Nitrogen Oxides	Airport	0.0030082	2011	81.14
Imerys Marble Inc.	9986 Ga Hwy 53 East	34.4311	-84.3414	212319	Nitrogen Oxides		1.6	2011	81.71
West Georgia Rgnl - O V	Unknown	33.631	-85.152	48811	Nitrogen Oxides	Airport	0.843355	2011	81.72
LANIER PARK HOSPITAL	Unknown	34.3197	-83.7967	48811	Nitrogen Oxides	Airport	0.0059495	2011	81.83
Thomaston-Upson County	Unknown	32.9546	-84.2632	48811	Nitrogen Oxides	Airport	0.54907	2011	82.72
Quad Graphics, Inc.	100 Duplainville Rd	32.9539	-84.2539	323120	Nitrogen Oxides	Printing/Publishing Facility	6.79	2011	82.81
Ga Power Company -	10986 Highway	33.0613	-83.8066	221112	Nitrogen Oxides	Electricity Generation via	15361.02	2011	83.02

Plant Scherer	87					Combustion			
BIG CANOE	Unknown	34.4548	-84.2891	48811	Nitrogen Oxides	Airport	0.0059495	2011	84.11
B TREE FARMS	Unknown	34.2682	-83.6721	48811	Nitrogen Oxides	Airport	0.0036293	2011	84.14
Jackson County	Unknown	34.174	-83.5607	48811	Nitrogen Oxides	Airport	0.3291436	2011	84.32
ST MARYS HEALTH CARE SYSTEMS	Unknown	33.9479	-83.4081	48811	Nitrogen Oxides	Airport	0.0059495	2011	84.55
ELLIOTT FIELD	Unknown	34.459	-84.1813	48811	Nitrogen Oxides	Airport	0.0038799	2011	84.99
Keadle Lumber Enterprises	889 Railroad St	32.9289	-84.2813	321113	Nitrogen Oxides		14.31	2011	85.58
Pickens County	Unknown	34.4534	-84.4574	48811	Nitrogen Oxides	Airport	0.514754	2011	85.65
ETOWAH BEND	Unknown	34.202	-84.9772	48811	Nitrogen Oxides	Airport	0.0059212	2011	85.78
SUNSET STRIP	Unknown	33.3592	-85.1175	48811	Nitrogen Oxides	Airport	0.0000325	2011	86.92
FLYING W FARMS	Unknown	33.5078	-85.1856	48811	Nitrogen Oxides	Airport	0.0033322	2011	87.16
West Georgia Generating Facility	95 Yamaha Parkway	32.9109	-84.3067	221112	Nitrogen Oxides	Electricity Generation via Combustion	19.4	2011	87.63
University of Georgia	Herty Drive	33.9553	-83.3751	923110	Nitrogen Oxides	Institutional (school, hospital, prison, etc.)	131.1764	2011	87.69
GUM CREEK	Unknown	33.4212	-85.1619	48811	Nitrogen Oxides	Airport	0.0036507	2011	87.97
Cornelius-Moore Field	Unknown	34.0187	-85.1465	48811	Nitrogen Oxides	Airport	0.417727	2011	88.19
Smarr EMC	1077 Rumble Road	32.984	-83.8467	221112	Nitrogen Oxides		23.13	2011	88.75
Dahlberg Combustion Turbine Electric Generating Plant	585 Jarrett Road	34.042	-83.3978	221112	Nitrogen Oxides	Electricity Generation via Combustion	41.3495	2011	89.35
RABBIT HOLE II	UNKNOWN	33.4997	-83.3206	48811	Nitrogen Oxides	Airport	0.0059495	2011	90.91
Athens/Ben Epps	Unknown	33.9464	-83.3318	48811	Nitrogen Oxides	Airport	1.9015409	2011	91.18
CertainTeed Corporation	425 Athena Drive	33.9795	-83.3338	327993	Nitrogen Oxides		115.071	2011	92.17
Huber Engineered Woods, LLC	1442 Highway 334	34.1612	-83.4329	321219	Nitrogen Oxides	Wood Board Manufacturing Plant	76.5492	2011	93.01
Horton Vans Inc	130 Coleman Drive	33.3017	-83.3889	336214	Nitrogen Oxides		0.215	2011	93.07
Roosevelt Memorial	Unknown	32.9335	-84.6888	48811	Nitrogen Oxides	Airport	0.1029506	2011	93.44
SMITH	Unknown	33.6762	-83.2593	48811	Nitrogen Oxides	Airport	0.0027885	2011	93.79
Horton Homes Inc	101 Industrial Blvd	33.2967	-83.3708	321991	Nitrogen Oxides		1.88	2011	94.81

FLY-N-S RANCH	Unknown	34.4517	-83.7886	48811	Nitrogen Oxides	Airport	0.0029793	2011	94.88
DOUG BOLTON FIELD	Unknown	34.2026	-83.429	48811	Nitrogen Oxides	Airport	0.0000325	2011	95.91
SEBASTIAN COVE	Unknown	33.4542	-83.2778	48811	Nitrogen Oxides	Airport	0.0032282	2011	96.09
CEDARTOWN	Unknown	34.0122	-85.2482	488210	Nitrogen Oxides	Rail Yard	4.82302	2011	96.60
Imerys Marble Inc	WHITESTONE RD	34.5456	-84.5068	212319	Nitrogen Oxides		0.937	2011	96.63
ANSWERED PRAYER	Unknown	33.2539	-85.1703	48811	Nitrogen Oxides	Airport	0.0027836	2011	96.82
Sewell Creek Energy Facility	1031 Sewell Creek Rd	33.948	-85.2769	221112	Nitrogen Oxides		134.4	2011	96.82
C & W AIR PARK	Unknown	32.8444	-84.5439	48811	Nitrogen Oxides	Airport	0.0027781	2011	98.26
Georgia-Pacific Wood Products LLC (Warm Springs)	5875 Chipley Highway	32.9178	-84.7726	321212	Nitrogen Oxides	Wood Board Manufacturing Plant	154.44	2011	98.46
RICHARDS	Unknown	33.0793	-85.0316	48811	Nitrogen Oxides	Airport	0.002848	2011	98.51
Rayonier Inc-Eatonton Sawmill	Dennis Station Road	33.2416	-83.3601	321113	Nitrogen Oxides		20.51	2011	98.72
RAINBOW FIELD	Unknown	32.8328	-84.5378	48811	Nitrogen Oxides	Airport	0.0000325	2011	99.36
The HON Company	907 West Ave PO Box 1000	34.0128	-85.2803	337214	Nitrogen Oxides		4.901	2011	99.39
Southern Natural Gas Co., Ocmulgee	5675 Arkwright Road.	32.9371	-83.7116	486210	Nitrogen Oxides	Compressor station	694.55	2011	99.43
Novelis, Inc.	1261 Willow Run Rd	33.5605	-83.2003	331314	Nitrogen Oxides		58.9406	2011	100.47
Packaging Products Corporation, LLC	2 Superior Blvd	34.1746	-85.199	323111	Nitrogen Oxides		3.75	2011	100.53

Appendix B: Current and Future Construction Projects in Vicinity of Proposed Near-Road Site

PROJECT ID	New Project Description	Consolidated Project Description	TYPE	Management Let Date	STATUS
2412	SR 155 FROM WEST OF RADCLIFF BLVD TO CATHEDRAL PLACE	SR 155 FM CR 5196/SNAPFINGER RD TO CANDLER RD @ FLAT SHOALS	Enhancement		Long Range Program
3102	SR 155/CANDLER ROAD MAJOR ARTERIAL ENHANCEMENTS - PHASE 2	SR 155/CANDLER ROAD MAJOR ARTERIAL ENHANCEMENTS - PHASE II	Enhancement	5/16/2008 0:00	Under Construction
6459	I-285 NOISE WALLS FROM I-20 TO BOULDERCREST ROAD	I-285 NOISE WALLS FROM I-20 TO BOULDERCREST ROAD	New Construction		Long Range Program
6894	PANTHERSVILLE RD FM CLIFTON SPRINGS RD TO FLAT SHOALS RD	CR 5168/PANTHERSVILLE RD FM CLIFTON SGS RD TO FLAT SHS RD	Reconstruction/Rehabilitation		Long Range Program
6895	CR 442/COLUMBIA DR FM RAINBOW DR TO SR 155/FLAT SHOALS RD	CR 442/COLUMBIA DR FM RAINBOW DR TO SR 155/FLAT SHOALS RD	Reconstruction/Rehabilitation		Long Range Program
7015	CR 5168/PANTHERSVILLE ROAD @ CR 442/CLIFTON SPRINGS	CR 5168/PANTHERSVILLE ROAD @ CR 442/CLIFTON SPRINGS	Reconstruction/Rehabilitation		Construction Work Program
8268	CR 594/SALEM RD FM CR 5150/PANOLA RD TO CR 4904/FANNIN DR	FLAT SHOALS RD; HENDERSON RD & SALEM RD - SIDEWALKS	Enhancement		Construction Work Program
9567	SR 155 FROM I-285 TO SR 154 - LANDSCAPE ENHANCEMENTS	SR 155 FROM I-285 TO SR 154 - LANDSCAPE ENHANCEMENTS	Enhancement	6/22/2012 0:00	Under Construction
10637	SOUTH RIVER TRAIL FM CLIFTON RD TO CLIFTON SPRINGS RD -PH 1B	SOUTH RIVER TRAIL FM CLIFTON RD TO CLIFTON SPRINGS RD -PH 1B	Enhancement	7/19/2013 0:00	Under Construction
10782	I-285 - VARIABLE SPEED LIMIT SIGNS	I-285 - VARIABLE SPEED LIMIT SIGNS	Reconstruction/Rehabilitation	10/19/2012 0:00	Under Construction
11741	SR 155 FM I-285 TO CR 442/COLUMBIA DRIVE/CLIFTON SPRINGS RD	SR 155 FM I-285 TO CR 442/COLUMBIA DRIVE/CLIFTON SPRINGS RD	Safety		Construction Work Program
713290-	I-285 @ SR 155/FLAT SHOALS ROAD; INC NOISE BARRIERS	I-285 @ SR 155/FLAT SHOALS ROAD	Reconstruction/Rehabilitation	10/17/2014 0:00	Rejected
742751-	FLAT SHOALS RD @ GRESHAM RD @ SECOND AVE	FLAT SHOALS RD @ GRESHAM RD @ SECOND AVE	Safety		Under Construction
M004778	I-20 FROM WINSOR STREET/FULTON TO W OF COLUMBIA DRIVE/DEKALB	I-20 FROM WINSOR STREET/FULTON TO W OF COLUMBIA DRIVE/DEKALB	Maintenance	9/20/2013 0:00	Under Construction