

Fredericksburg Area Metropolitan Planning Organization

2040 FAMPO Constrained Long Range Plan Equity Analysis

Environmental Justice Analysis in accordance with Title VI of the Civil Rights
Act of 1964

Table of Contents

I. A Brief History of Environmental Justice	1
II. Methodology.....	1
III. Results.....	3

List of Tables

Table 1. Average Percent of Select Population by Location	2
Table 2a. African American Population – 2040 CLRP Analysis.....	3
Table 2b. African American Population – Overview	4
Table 3a. Asian American Population – 2040 CLRP Analysis.....	5
Table 3b. Asian American Population – Overview	5
Table 4a. Hispanic Population – 2040 CLRP Analysis	7
Table 4b. Hispanic Population – Overview	7
Table 5a. Low Income Population – 2040 CLRP Analysis	9
Table 5b. Low Income Population – Overview.....	9
Table 6a. Disabled Population – 2040 CLRP Analysis.....	10
Table 6b. Disabled Population – Overview	11
Table 7a. Older Adult Population – 2040 CLRP Analysis	12
Table 7b. Older Adult Population– Overview	12
Table 8a. Limited English Proficiency – 2040 CLRP Analysis	13
Table 8b. Limited English Proficiency – Overview	14

IV. Apendices.....	15
--------------------	----

APPENDIX – EJ Anaylsis Maps	16
Map 1. African American Population 2040 CLRP EJ Analysis.....	16
Map 2. Asian American Population 2040 CLRP EJ Analysis.....	17
Map 3. Hispanic Population 2040 CLRP EJ Analysis	18
Map 4. Low Income Population 2040 CLRP EJ Analysis	19
Map 5. Disabled Population 2040 CLRP EJ Analysis.....	20
Map 6. Older Adult Population 2040 CLRP EJ Analysis	21
Map 7. Limited English Proficiency Population 2040 CLRP EJ Analysis.....	22

I. A Brief History of Environmental Justice

Title VI of the Civil Rights Act of 1964 prohibited discrimination on the basis of race, color, and national origin. During the decade after passage of the Civil Rights Act, Congress passed a series of laws extending civil rights protections in federally assisted programs and activities. These laws, modeled on Title VI, prohibited discrimination on the basis of sex in Federally assisted education programs (Title IX of the Education Amendments of 1972), disability in Federally assisted and conducted programs (Section 504 of the Rehabilitation Act of 1973), and age in Federally assisted programs (the Age Discrimination Act of 1975).

More recently, Congress has passed legislation and the White House has issued Executive Orders to further clarify and expand the reach of Title VI: The Americans with Disabilities Act (ADA) of 1990 was passed to eliminate discrimination on the basis of physical or mental disability in employment and in programs and services provided by state and local governments. Executive Order 12898 was issued in February 1994 to address Environmental Justice (EJ) in Minority Populations and Low Income Populations (Environmental Justice). Federal agencies were called upon to make achieving environmental justice part of its mission by identifying and addressing disproportionately high and adverse human health and environmental impacts of its programs, policies and activities on minority and low-income populations. Executive Order 13166, issued in August 2000, requires that Federal Agencies undertake proactive efforts to ensure meaningful access to federally funded programs for persons with Limited English Proficiency (LEP).

On May 2, 2012, USDOT reaffirmed their commitment to Environmental Justice by issuing an update to Departmental Order 5610.2(a). This order explicitly states the purpose and authority of the order and EJ policy, as well as data collection and analysis procedures associated with EJ. The result of the past 47 years of Civil Rights regulations, statutes, policies, technical advisories and Executive Orders, is that nondiscrimination provisions apply to all programs and activities of Federal-aid recipients, sub-recipients, and contractors, regardless of tier. Fredericksburg Area Metropolitan Planning Organization (FAMPO), the metropolitan planning organization for the Fredericksburg, VA urbanized area, is subject to these requirements.

II. Methodology

The Federal Highway Administration (FHWA) does not specifically outline how an EJ analysis should be conducted. FAMPO staff conducted an equity analysis on the distribution of 2040 Constrained Long Range Transportation Plan (CLRP) projects as they relate to identified EJ areas.

Geographic Information Systems (GIS) mapping, based on 2011 American Community Survey (ACS) 5-year estimates and 2000 Decennial Census data retrieved from the US Census Bureau, was used to define the aggregated populations for seven characteristics identified as a Title VI or EJ population. Data provided included County and Regional averages for each population as well as the percentage of each population at the Census Tract level. These populations include:

EJ Populations—Low Income and Minority

- African American Populations
- Asian Populations
- Hispanic Populations
- Low Income Populations

Title VI Populations

- Disabled Populations
- Older Adult Populations
- Limited English Proficiency

The locations of site specific highway and transit projects from FAMPO's Transportation Improvement Program were then analyzed against the EJ mapping. Current transit routes, stations and proposed transit projects were also evaluated.

Census tract data for each population was evaluated based on the overall percent for each City and County, shown in Table 1. For example, any census tract in Fredericksburg City that was above 22.64% for the African American Population Aggregation, was designated an African American “EJ” Census Tract. The same was done for all EJ and Title VI populations. In this way, the region was divided into EJ/ Title VI and non-EJ/Title VI Census Tracts.

Overall, there was considerable overlap among the minority EJ populations, which were widely spread in the central and northern parts of FAMPO’s service area. Roughly 41-44.5% of the Census tracts were designated Hispanic, African American, or Asian. Low Income populations were located in 30 Census tracts which accounts for nearly 48% of the regions total census tract inventory.

The Older Adult populations were the most prevalent of the Title VI populations. Fully 63% of the Census tracts are designated Older Adult. Forty-four percent of the Census tracts were disabled, and almost forty percent are LEP.

In order to evaluate which highway projects, both fully and partially funded, were in an EJ or Title VI area, a project layer file was overlaid on the maps. Projects that fell partially in or ran along the border of an EJ or Title VI Census tract were selected as an EJ or Title VI project for each criterion. This was also done separately for each criterion.

Table 1. Average Percent of Select Population by Location

	Fredericksburg City	Spotsylvania County	Stafford County
African American Population Aggregations*	22.64%	15.25%	16.97%
Asian American Population Aggregations*	2.84%	2.31%	2.81%
Hispanic Population Aggregations*	10.73%	7.58%	9.21%
Low Income Population Aggregations*	23.52%	7.34%	4.02%
Disabled Population Aggregations**	19.70%	16.32%	12.50%
Older Adult Population Aggregations*	9.94%	9.90%	7.34%
Limited English Proficiency Aggregations*	5.96%	3.32%	3.30%
*Data derived from US Census Bureau: 2010-SF 1 100% Data			
**Data derived from 2006-2010 American Community Survey 5-Year Estimates			
***Data derived from 2000 US Census Bureau figures			

III. Results

The Federal Highway Administration does not specifically outline how EJ analysis should be conducted. FAMPO prepared the equity analyses for both highway and transit projects separately for the individual EJ or Title VI populations. The result is a series of seven tables included in the report and seven maps found in the Appendix. The results are presented sequentially by population characteristic.

Examination of the location of highway projects against the percent of minority populations (Tables 2-4) indicates that these EJ areas will receive a greater percent of transportation investments than their overall population by Census Tract.

- African American Census Tracts are the site of **92.8%** of all 2040 Constrained Long Range Plan (CLRP) projects. The percentage of African American Census Tracts overall is 44.4%.
- Asian Census Tracts are the site of **71.4%** of all CLRP projects. Again, the percentage of Asian American Census Tracts overall is 41.3%.
- Hispanic Census Tracts are the site of **86.6%** of all CLRP projects. The overall percent of Hispanic Census Tracts is 44.4%.
- Low income Census Tracts are the site of **78.6%** of all CLRP projects. The percentage of Low Income Census Tracts overall is 47.6%.

Table 2a. African American Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of African American EJ Census Tracts	28	44.4%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within African American EJ Census Tracts	104	92.8%

Table 2b. African American Population –Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total African American Population	Percent
Fredericksburg (>26.44%=EJ Tract)	1	239	7.90%
	2	1123	21.60%
	3.01	290	11.00%
	3.02	667	15.10%
	4	1513	48.10%
	5	1666	28.50%
Spotsylvania (>15.25%=EJ Tract)	201.04	516	11.20%
	201.05	100	4.40%
	201.06	497	8.60%
	201.07	240	13.30%
	201.08	745	18.20%
	201.09	512	13.90%
	201.10	541	14.50%
	201.11	398	16.70%
	201.12	558	20.10%
	201.13	556	12.80%
	201.14	1340	23.20%
	202.01	1131	19.40%
	202.02	760	15.30%
	202.03	1148	23.70%
	202.04	520	13.10%
	202.05	803	17.60%
	203.04	528	12.60%
	203.05	557	17.70%
	203.06	1424	27.10%
	203.07	817	22.80%
	203.08	552	14.70%
	203.09	883	15.60%
203.10	641	15.10%	
203.11	821	16.30%	
204.03	332	8.80%	
204.04	405	11.80%	
204.05	341	9.90%	
204.06	269	7.80%	
204.07	477	9.40%	
204.08	239	8.60%	
Stafford (>16.97%=EJ Tract)	101.03	477	13.50%
	101.05	1504	22.20%
	101.06	392	13.60%
	101.07	294	9.00%
	101.08	1103	19.40%

Stafford (cont.) (>16.97%=EJ Tract)	102.01	121	6.10%
	102.02	304	5.10%
	102.04	1357	16.80%
	102.05	1089	16.10%
	102.06	1151	22.10%
	102.07	2070	27.50%
	102.10	1783	26.70%
	102.11	964	22.70%
	102.12	912	19.50%
	102.13	465	18.00%
	102.14	822	21.90%
	103.01	360	9.50%
	103.03	1685	19.60%
	103.04	999	18.90%
	103.05	1360	24.00%
	104.03	266	9.20%
	104.04	909	15.40%
	104.05	574	9.50%
	104.06	463	14.70%
	105.02	259	6.20%
105.03	65	3.10%	
105.04	133	7.70%	

*Data derived from US Census Bureau: 2010-SF 1 100% Data.

Table 3a. Asian American Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Asian American EJ Census Tracts	26	41.3%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within Asian American EJ Census Tracts	80	71.4%

Table 3b. Asian American Population – Overview *(EJ Tracts Bold & Italicized)*

Locality	Census Tract	Total Asian American Population	Percent
Fredericksburg (>2.84%=EJ Tract)	1	43	1.40%
	2	134	2.60%
	3.01	114	4.30%
	3.02	88	2.00%
	4	36	1.10%
	5	274	4.70%
Spotsylvania (>2.31%=EJ Tract)	201.04	160	3.50%
	201.05	25	1.10%
	201.06	227	3.90%
	201.07	38	2.10%

Spotsylvania (cont.) (>2.31%=EJ Tract)	201.08	145	3.50%
	201.09	59	1.60%
	201.10	86	2.30%
	201.11	65	2.70%
	201.12	42	1.50%
	201.13	52	1.20%
	201.14	211	3.70%
	202.01	105	1.80%
	202.02	104	2.10%
	202.03	169	3.50%
	202.04	121	3.10%
	202.05	108	2.40%
	203.04	102	2.40%
	203.05	110	3.40%
	203.06	239	4.60%
	203.07	100	2.80%
	203.08	87	2.30%
	203.09	109	1.90%
	203.10	71	1.70%
	203.11	53	1.10%
	204.03	66	1.70%
	204.04	17	0.50%
	204.05	29	0.80%
	204.06	28	0.80%
	204.07	69	1.40%
	204.08	28	1.00%
Stafford (>2.81%=EJ Tract)	101.03	89	2.05%
	101.05	234	3.40%
	101.06	58	2.00%
	101.07	66	2.00%
	101.08	197	3.50%
	102.01	79	4.00%
	102.02	111	1.90%
	102.04	258	3.20%
	102.05	206	3.00%
	102.06	198	3.80%
	102.07	225	3.00%
	102.10	262	3.90%
	102.11	131	3.10%
	102.12	165	3.50%
	102.13	92	3.60%
	102.14	100	2.70%
103.01	65	1.70%	
103.03	286	3.30%	

Stafford (cont.) (>2.65%=EJ Tract)	103.04	138	2.60%
	103.05	189	3.30%
	104.03	67	2.30%
	104.04	146	2.50%
	104.05	110	1.80%
	104.06	76	2.40%
	105.02	40	0.90%
	105.03	14	0.70%
	105.04	18	1.00%

*Data derived from US Census Bureau: 2010-SF 1 100% Data.

Table 4a. Hispanic Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Hispanic EJ Census Tracts	28	44.4%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within Hispanic EJ Census Tracts	97	86.6%

Table 4b. Hispanic Population – Overview *(EJ Tracts Bold & Italicized)*

Locality	Census Tract	Total Hispanic American Population	Percent
Fredericksburg (>10.73%=EJ Tract)	1	80	2.70%
	2	640	12.30%
	3.01	89	3.40%
	3.02	155	11.20%
	4	199	5.80%
	5	1118	19.10%
Spotsylvania (>7.58%=EJ Tract)	201.04	231	5.00%
	201.05	92	4.00%
	201.06	468	8.10%
	201.07	74	4.10%
	201.08	516	12.60%
	201.09	434	11.80%
	201.10	495	13.30%
	201.11	239	10.00%
	201.12	284	10.20%
	201.13	300	6.90%
	201.14	537	9.30%
	202.01	525	9.00%
	202.02	433	8.70%
	202.03	346	7.10%
	202.04	264	6.70%
202.05	331	7.20%	
	203.04	386	9.20%

Spotsylvania (cont.) (>7.58%=EJ Tract)	203.05	426	13.00%
	203.06	493	9.40%
	203.07	567	15.80%
	203.08	309	8.20%
	203.09	417	7.40%
	203.10	233	5.50%
	203.11	239	4.70%
	204.03	75	2.00%
	204.04	63	1.80%
	204.05	75	2.20%
	204.06	84	2.40%
	204.07	166	3.30%
	204.08	176	6.30%
	Stafford (>9.21%=EJ Tract)	101.03	340
101.05		632	9.30%
101.06		155	5.40%
101.07		199	6.10%
101.08		673	11.80%
102.01		132	6.70%
102.02		412	6.90%
102.04		471	5.80%
102.05		743	11.00%
102.06		726	13.90%
102.07		1449	19.30%
102.10		704	10.50%
102.11		731	17.20%
102.12		619	13.20%
102.13		188	7.30%
102.14		407	10.80%
103.01		228	6.00%
103.03		680	7.90%
103.04		512	9.70%
103.05		479	8.40%
104.03		187	6.50%
104.04		353	6.00%
104.05		363	6.00%
104.06		213	6.80%
105.02	186	4.40%	
105.03	53	2.60%	
105.04	40	2.30%	
*Data derived from US Census Bureau: 2010-SF 1 100% Data.			

Table 5a. Low Income Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Low Income EJ Census Tracts	30	47.6%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within Low Income EJ Census Tracts	88	78.6%

Table 5b. Low Income Population – Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Low Income Population	Percent
Fredericksburg (>23.52%=EJ Tract)**	1	275	9.10%
	2	1193	22.90%
	3.01	2239	84.60%
	3.02	447	10.10%
	4	852	27.10%
	5	707	12.10%
Spotsylvania (>7.34%=EJ Tract)	201.04	234	5.10%
	201.05	39	1.70%
	201.06	116	2.00%
	201.07	63	3.50%
	201.08	528	12.90%
	201.09	450	12.20%
	201.10	335	9.00%
	201.11	74	3.10%
	201.12	208	7.50%
	201.13	295	6.80%
	201.14	687	11.90%
	202.01	286	4.90%
	202.02	304	6.10%
	202.03	257	5.30%
	202.04	266	6.70%
	202.05	302	6.60%
	203.04	389	9.30%
	203.05	268	8.20%
	203.06	425	8.10%
	203.07	136	3.80%
	203.08	60	1.60%
	203.09	237	4.20%
	203.10	106	2.50%
203.11	1099	21.80%	
204.03	310	8.20%	
204.04	480	14.00%	
204.05	451	13.10%	
204.06	226	6.50%	

Spotsylvania (cont.) (>7.34%=EJ Tract)	204.07	350	6.90%
	204.08	0	0.00%
Stafford (>4.02%=EJ Tract)	101.03	177	5.00%
	101.05	319	4.70%
	101.06	0	0.00%
	101.07	10	0.30%
	101.08	148	2.60%
	102.01	0	0.00%
	102.02	155	2.60%
	102.04	461	5.70%
	102.05	135	2.00%
	102.06	109	2.10%
	102.07	579	7.70%
	102.10	301	4.50%
	102.11	38	0.90%
	102.12	61	1.30%
	102.13	119	4.60%
	102.14	293	7.80%
	103.01	163	4.30%
	103.03	352	4.10%
	103.04	307	5.80%
	103.05	471	8.30%
	104.03	155	5.40%
	104.04	130	2.20%
	104.05	255	4.20%
	104.06	189	6.00%
	105.02	80	1.90%
	105.03	89	4.30%
	105.04	83	4.80%
	*Data derived from US Census Bureau: 2010-SF 1 100% Data.		
**Tract 3.01 contains the University of Mary Washington and skews the results for low-income tracts in the City of Fredericksburg.			

Often other factors are taken into consideration when evaluating transportation projects including disabilities, older adult, and Limited English Proficiency (LEP). As shown in Tables 6a, 7a, and 8a, all of these criteria had a relatively higher percentage of 2040 CLRP projects located within EJ census tracts. Percentages of 2040 CLRP projects with EJ census tracts varied from **65.2%** for older adult populations to **88.4%** for disabled populations.

Table 6a. Disabled Population over 5 years of age– 2040 CLRP Analysis*

Total Number of Census Tracts in FAMPO Region**	38	
Number of Disabled EJ Census Tracts	17	44.7%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within Disabled EJ Census Tracts	99	88.4%

*For Disabled Population – TIP Analysis, 2000 US Census Data figures were used since 2010 US Census Data and American Community Survey Data was unavailable at the Census Tract level at the time that the analysis was performed. Once updated census figures at the tract level are available then this table and all accompanying data will be incorporated.

**It should be noted that the number of census tracts in the region were fewer in 2000 than there were in 2010.

Table 6b. Disabled Population over 5 years of age—Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Disabled Population (aged 5+)	Percent
Fredericksburg (>21.46%=EJ Tract)	1	574	19.20%
	2	888	23.20%
	3	728	12.00%
	4	745	28.50%
	5	603	24.40%
Spotsylvania (>16.37%=EJ Tract)	201.01	1087	19.00%
	201.02	1158	16.10%
	201.03	1544	13.50%
	201.04	277	11.80%
	202	2483	16.70%
	203.01	1318	15.20%
	203.02	1033	11.20%
	203.03	1321	16.80%
	204.01	1239	22.90%
	204.02	2048	20.50%
Stafford (>12.57%=EJ Tract)	101.03	350	13.50%
	101.04	744	12.40%
	101.05	543	12.10%
	101.06	308	19.00%
	102.01	0	0.00%
	102.02	571	12.20%
	102.04	580	16.20%
	102.05	610	12.50%
	102.06	358	9.60%
	102.07	774	18.80%
	102.08	377	7.20%
	102.09	547	7.60%
	102.10	242	10.60%
	103.01	461	18.40%
	103.02	757	14.40%
	103.03	549	12.50%
	104.03	397	17.90%
104.04	628	16.10%	
104.05	433	11.60%	

Stafford (cont.) (>12.57%=EJ Tract)	104.06	215	9.40%
	105.02	373	10.00%
	105.03	150	9.30%
	105.04	259	17.90%
*Data derived from Census 2000 Summary File 3 (SF3).			

Table 7a. Older Adult Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Older Adult EJ Census Tracts	28	44.4%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within Older Adult EJ Census Tracts	73	65.2%

Table 7b. Older Adult Population – Overview (EJ Tracts Italicized)

Locality	Census Tract	Total Older Adult Population	Percent
Fredericksburg (>9.94%=EJ Tract)	1	400	13.30%
	2	801	15.40%
	3.01	18	0.70%
	3.02	524	11.80%
	4	441	14.00%
	5	229	3.90%
Spotsylvania (>9.90%=EJ Tract)	201.04	424	9.20%
	201.05	235	10.30%
	201.06	894	15.50%
	201.07	118	6.50%
	201.08	660	16.10%
	201.09	790	21.40%
	201.10	271	7.30%
	201.11	119	5.00%
	201.12	135	4.90%
	201.13	353	8.10%
	201.14	430	7.50%
	202.01	436	7.50%
	202.02	615	12.30%
	202.03	292	6.00%
	202.04	491	12.40%
	202.05	280	6.10%
	203.04	585	14.00%
	203.05	200	6.10%
203.06	496	9.50%	
203.07	185	5.20%	
203.08	237	6.30%	
203.09	326	5.80%	

Spotsylvania (cont.) (>9.90%=EJ Tract)	203.10	381	9.00%
	203.11	586	11.60%
	204.03	356	9.40%
	204.04	441	12.90%
	204.05	561	16.30%
	204.06	325	9.40%
	204.07	724	14.30%
	204.08	168	6.00%
Stafford (>7.34%=EJ Tract)	101.03	283	8.00%
	101.05	372	5.50%
	101.06	291	10.10%
	101.07	250	7.70%
	101.08	308	5.40%
	102.01	5	0.30%
	102.02	403	6.80%
	102.04	616	7.60%
	102.05	289	4.30%
	102.06	262	5.00%
	102.07	317	4.20%
	102.10	174	2.60%
	102.11	96	2.30%
	102.12	159	3.40%
	102.13	71	2.80%
	102.14	145	3.90%
	103.01	366	9.70%
	103.03	699	8.10%
	103.04	1118	21.10%
	103.05	330	5.80%
	104.03	236	8.20%
	104.04	610	10.30%
	104.05	578	9.50%
	104.06	271	8.60%
	105.02	623	14.80%
	105.03	292	14.10%
105.04	300	17.30%	
*Data derived from US Census Bureau: 2010-SF 1 100% Data.			

Table 8a. Limited English Proficiency – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of LEP EJ Census Tracts	29	46.03%
Total Number of 2040 CLRP Projects	112	
Total 2040 CLRP Projects within LEP EJ Census Tracts	94	83.9%

Table 8b. Limited English Proficiency – Overview

(EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Limited English Proficiency Population	Percent
Fredericksburg (>5.96%=EJ Tract)	1	20	0.70%
	2	451	10.00%
	3.01	0	0.00%
	3.02	191	4.40%
	4	177	6.10%
	5	608	14.10%
Spotsylvania (>3.32%=EJ Tract)	201.04	54	1.30%
	201.05	34	1.60%
	201.06	166	3.10%
	201.07	11	0.70%
	201.08	169	3.70%
	201.09	360	11.10%
	201.10	128	3.70%
	201.11	168	7.20%
	201.12	147	5.70%
	201.13	69	1.70%
	201.14	273	4.80%
	202.01	120	2.30%
	202.02	261	6.30%
	202.03	188	4.40%
	202.04	95	2.50%
	202.05	414	9.70%
	203.04	174	4.30%
	203.05	132	4.20%
	203.06	371	8.40%
	203.07	64	2.10%
	203.08	132	4.80%
	203.09	66	1.30%
	203.10	110	2.60%
	203.11	27	0.60%
	204.03	25	0.80%
	204.04	15	0.50%
204.05	21	0.60%	
204.06	60	2.10%	
204.07	161	3.60%	
204.08	54	2.40%	
101.03	102	3.30%	
101.05	276	4.20%	
101.06	85	3.00%	
101.07	55	2.10%	
101.08	353	7.40%	
Stafford (>3.30%=EJ Tract)			

Stafford (cont.) (>3.30%=EJ Tract)	102.01	98	3.80%
	102.02	236	4.30%
	102.04	88	1.50%
	102.05	248	3.60%
	102.06	213	4.50%
	102.07	506	8.80%
	102.10	263	3.90%
	102.11	116	3.70%
	102.12	138	2.90%
	102.13	79	3.00%
	102.14	65	1.90%
	103.01	154	5.00%
	103.03	233	3.20%
	103.04	86	1.80%
	103.05	287	5.90%
	104.03	74	2.80%
	104.04	112	2.10%
	104.05	212	3.90%
	104.06	56	1.80%
	105.02	68	1.80%
105.03	47	2.30%	
105.04	0	0.00%	

*Data derived from American Community Survey: 2006-2010 - 5 Year Estimates.

Overall, the analysis shows that the distribution of projects in FAMPO's 2040 Constrained Long Rang Plan is equitable. With the sole exception of Low Income populations, the percent of projects in EJ or Title VI areas greatly exceeds their percent of the overall population. However, there are several limitations with this analysis that should be noted. First, only location specific projects were analyzed. EJ and Title VI populations may be receiving benefits from programs funded under the TIP that are not mappable. Second, the Census tracts are quite large, especially in Spotsylvania and Stafford Counties. It is not known whether the relevant populations live near the identified transportation project. The last note is that proximity to a transportation project is not always a guarantee that the transportation project is beneficial to that population. There are several projects, such as widening of a highway, which may be more of a burden to the population present, through possible property or health impacts.

IV. Appendices: