

## Appendix I. Emissions Analysis Results

The following tables list the emissions analysis results by location, pollutant and year.

### Emissions Analysis Results: Durham County USING MOBILE6.2

<b>NOx Comparison Table (kg/day)</b>					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	5,189	35	5,154	13,106	OK
2017	4,667	33	4,701	4,960	OK
2025	2,581	26	2,555	4,960	OK
2035	2,480	33	2,447	4,960	OK
<i>2017 is interpolated</i>					
			<b>Year</b>	<b>NOx(kg/day)</b>	<b>Budget Amount</b>
			2015	13,106	
			2016-2035	4,960	
<b>CO Comparison Table (kg/day)</b>					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	80,586	445	80,141	160,771	OK
2017	79,858	497	80,355	160,771	OK
2025	76,948	705	76,243	160,771	OK
2035	84,618	1,035	83,583	160,771	OK
			<b>Year</b>	<b>CO(tons/day)</b>	<b>CO(kg/day)</b>
			2015	177.22	160,771

### Emissions Analysis Results: Orange County

#### USING MOBILE6.2

<b>NOx Comparison Table (kg/day)</b>					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	3,181	0	3,181	9,933	OK
2017	2,847	0	2,847	3,742	OK
2025	1,513	0	1,513	3,742	OK
2035	1,425	0	1,425	3,742	OK

*2017 is interpolated*

## Emissions Analysis Results: Wake County

USING MOBILE6.2

NOx Comparison Table (kg/day)					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	16,010	83	15,927	36,615	OK
2017	14,554	78	14,632	16,352	OK
2025	8,731	59	8,672	16,352	OK
2035	8,208	91	8,117	16,352	OK
<i>2017 is interpolated</i>					
			<b>Year</b>	<b>NOx(kg/day)</b>	
				<u>Budget Amount</u>	
			2015	36,615	
			2016-2035	16,352	
CO Comparison Table (kg/day)					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	266,221	1,055	265,166	348,604	OK
2017	267,243	1,163	268,405	348,604	OK
2025	271,332	1,593	269,739	348,604	OK
2035	293,109	2,059	291,050	348,604	OK
			<b>Year</b>	<b>CO(tons/day)</b>	<b>CO(kg/day)</b>
				<u>Budget Amount</u>	<u>Budget Amount</u>
			2015	384.27	348,604

## Emissions Analysis Results: Chatham County

USING MOBILE6.2

NOx Comparison Table (kg/day)					
Analysis Year	Model	Off-Model	Comparison Amount	Budget Amount	
2015	895	0	895	1,565	OK
2017	814	0	814	948	OK
2025	491	0	491	948	OK
2035	445	0	445	948	OK

*2017 is interpolated*

## Emissions Analysis Results: Granville County

NOx Comparison Table (kg/day)					
Analysis Year	Model	Rural portion	Comparison Amount	Budget Amount	
2015	895	548	1,443	4,649	OK
2017	806	475	1,282	1,714	OK
2025	452	182	634	1,714	OK
2035	434	156	590	1,714	OK

### Emissions Budget Comparison

County: Granville (non-model portion)

#### NO<sub>x</sub> Comparison Table

Analysis Year	Estimated VMT	Estimated Emissions from the Transportation System (KG)
2015	816,605	548
2017	791,486	475
2025	699,021	182
2035	685,971	156

2017 is interpolated

## Emissions Analysis Results: Franklin County

NOx Comparison Table (kg/day)					
Analysis Year	Model	Rural portion	Total County	Budget Amount	
2015	1,008	204	1,212	2,048	OK
2017	910	174	1,084	1,139	OK
2025	517	55	572	1,139	OK
2035	446	53	499	1,139	OK

### Emissions Budget Comparison

Franklin non-modeled portion

County Franklin

#### NO<sub>x</sub> Comparison Table

Analysis Year	Estimated VMT	Estimated Emissions from the Transportation System (KG)
2015	321,899	204
2017	313,448	174
2025	274,602	55
2035	264,252	53

2017 is interpolated

## Emissions Analysis Results: Johnson County

NOx Comparison Table (kg/day)					
Analysis Year	Model	Rural portion	Total County	Budget Amount	
2015	2,958	1,901	4,859	12,583	OK
2017	2,654	1,649	4,303	5,958	OK
2025	1,434	641	2,075	5,958	OK
2035	1,168	443	1,611	5,958	OK

### Emissions Budget Comparison

### Johnson County non-modeled portion

County Johnston

### NO<sub>x</sub> Comparison Table

Analysis Year	Estimated VMT	Estimated Emissions from the Transportation System (KG)
2015	1,975,211	1,901
2017	1,961,993	1,649
2025	1,817,327	641
2035	1,792,577	443

2017 is interpolated

## Emissions Analysis Results: Person County

### Emissions Budget Comparison

County PERSON

### NO<sub>x</sub> Comparison Table

Analysis Year	Estimated VMT	Estimated Emissions from the Transportation System (KG)	Emissions Budget (KG)
2015	993,509	715	1,359
2017	1,023,481	632	791
2025	1,143,367	302	791
2035	1,293,225	368	791

2017 is interpolated