

**Estimation of Emissions from Roundy's Class 8 On-Road Trucks for the Years 2007 and 2008
And Emission Reductions from 2007 to 2008**

I. 10 months of January through October

Pollutant	Total On-Road Truck Vehicle-Miles of Travel		Total Emissions		Emission Reductions from 2007 to 2008	
	2007	2008	2007 (pounds)	2008 (pounds)	(pounds)	(percent)
VOC	4,167,047	3,494,488	2,195	1,955	240	10.9%
CO	4,167,047	3,494,488	18,472	14,585	3,887	21.0%
NOx	4,167,047	3,494,488	102,723	75,910	26,813	26.1%
CO2	4,167,047	3,494,488	14,643,129	12,279,769	2,363,360	16.1%
PM2.5	4,167,047	3,494,488	1,737	1,299	438	25.2%

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II. Values Projected to the Full 12 Months of the Years

Pollutant	Total On-Road Truck Vehicle-Miles of Travel		Total Emissions		Emission Reductions from 2007 to 2008	
	2007	2008	2007 (pounds)	2008 (pounds)	(pounds)	(percent)
VOC	5,000,456	4,193,386	2,633	2,346	288	10.9%
CO	5,000,456	4,193,386	22,166	17,501	4,665	21.0%
NOx	5,000,456	4,193,386	123,268	91,093	32,175	26.1%
CO2	5,000,456	4,193,386	17,571,755	14,735,722	2,836,032	16.1%
PM2.5	5,000,456	4,193,386	2,084	1,558	526	25.2%

- VOC: Volatile Organic Compounds
- CO: Carbon Monoxide
- NOx: Nitrogen Oxides
- CO2: Carbon Dioxide
- PM2.5: Particulate Matter of Size 2.5 microns or less

March 13, 2009

Estimation of Emissions from Roundy's Class 8 On-Road Trucks for the Years 2007 and 2008

I. Year 2007

Poll't	Model Year	Number of Trucks	Average Jan-Oct (10 month) VMT per Truck	Total Jan-Oct (10 month) VMT (all Trucks)	Projected Total Jan-Dec (12 month) VMT (all Trucks)	EF's from MOBILE6.2 (grams per mile)				VMT Fractions from MOBILE6.2		Assumed Distribution of VMT by Average Speed		Combined EF Without DOC's (gpm)	Reduction From DOC	Combined EF With DOC's (gpm)	Total Emissions Jan-Oct (10 months) (pounds)	Projected Total Emissions Jan-Dec (12 months) (pounds)
						20 mph		65 mph		HDDV8A	HDDV8B	20 mph	65 mph					
						HDDV8A	HDDV8B	HDDV8A	HDDV8B									
VOC	2003	16	83,341	1,333,455	1,600,146	0.718	0.776	0.325	0.351	0.0210	0.0485	0.133	0.867	0.398	50%	0.199	586	703
VOC	2005	34	83,341	2,833,592	3,400,310	0.463	0.502	0.210	0.227	0.0191	0.0441	0.133	0.867	0.258	0%	0.258	1,609	1,931
VOC	2007	0	83,341	0	0	0.368	0.404	0.167	0.183	0.0174	0.0403	0.133	0.867	0.207	0%	0.207	0	0
VOC	ALL	50		4,167,047	5,000,456												2,195	2,633
CO	2003	16	83,341	1,333,455	1,600,146	3.396	3.723	2.103	2.306	0.0210	0.0485	0.133	0.867	2.428	40%	1.457	4,283	5,140
CO	2005	34	83,341	2,833,592	3,400,310	3.176	3.483	1.967	2.157	0.0191	0.0441	0.133	0.867	2.271	0%	2.271	14,189	17,027
CO	2007	0	83,341	0	0	0.332	0.364	0.206	0.225	0.0174	0.0403	0.133	0.867	0.237	0%	0.237	0	0
CO	ALL	50		4,167,047	5,000,456												18,472	22,166
NOx	2003	16	83,341	1,333,455	1,600,146	6.178	6.786	13.974	15.345	0.0210	0.0485	0.133	0.867	13.823	0%	13.823	40,637	48,764
NOx	2005	34	83,341	2,833,592	3,400,310	5.658	6.211	9.863	10.827	0.0191	0.0441	0.133	0.867	9.939	0%	9.939	62,086	74,504
NOx	2007	0	83,341	0	0	2.952	3.237	5.147	5.643	0.0174	0.0403	0.133	0.867	5.182	0%	5.182	0	0
NOx	ALL	50		4,167,047	5,000,456												102,723	123,268
CO2	2003	16	83,341	1,333,455	1,600,146	1544.3	1615.4	1544.3	1615.4	0.0210	0.0485	0.133	0.867	1593.917	0%	1593.917	4,685,765	5,622,918
CO2	2005	34	83,341	2,833,592	3,400,310	1544.3	1615.4	1544.3	1615.4	0.0191	0.0441	0.133	0.867	1593.935	0%	1593.935	9,957,364	11,948,837
CO2	2007	0	83,341	0	0	1544.3	1615.4	1544.3	1615.4	0.0174	0.0403	0.133	0.867	1593.941	0%	1593.941	0	0
CO2	ALL	50		4,167,047	5,000,456												14,643,129	17,571,755
PM2.5	2003	16	83,341	1,333,455	1,600,146	0.2029	0.2016	0.2029	0.2016	0.0210	0.0485	0.133	0.867	0.202	20%	0.162	475	570
PM2.5	2005	34	83,341	2,833,592	3,400,310	0.2029	0.2016	0.2029	0.2016	0.0191	0.0441	0.133	0.867	0.202	0%	0.202	1,262	1,514
PM2.5	2007	0	83,341	0	0	0.0285	0.0285	0.0285	0.0285	0.0174	0.0403	0.133	0.867	0.029	0%	0.029	0	0
PM2.5	ALL	50		4,167,047	5,000,456												1,737	2,084

II. Year 2008

Poll't	Model Year	Number of Trucks	Average Jan-Oct (10 month) VMT per Truck	Total Jan-Oct (10 month) VMT (all Trucks)	Projected Total Jan-Dec (12 month) VMT (all Trucks)	EF's from MOBILE6.2 (grams per mile)				VMT Fractions from MOBILE6.2		Assumed Distribution of VMT by Average Speed		Combined EF Without DOC's (gpm)	Reduction From DOC	Combined EF With DOC's (gpm)	Total Emissions Jan-Oct (10 months) (pounds)	Projected Total Emissions Jan-Dec (12 months) (pounds)
						20 mph		65 mph		HDDV8A	HDDV8B	20 mph	65 mph					
						HDDV8A	HDDV8B	HDDV8A	HDDV8B									
VOC	2003	7	69,890	489,228	587,074	0.747	0.805	0.338	0.365	0.0210	0.0485	0.133	0.867	0.414	50%	0.207	223	268
VOC	2005	35	69,890	2,446,142	2,935,370	0.494	0.533	0.224	0.241	0.0191	0.0441	0.133	0.867	0.274	0%	0.274	1,477	1,772
VOC	2007	8	69,890	559,118	670,942	0.368	0.404	0.167	0.183	0.0174	0.0403	0.133	0.867	0.207	0%	0.207	255	306
VOC	ALL	50		3,494,488	4,193,386												1,955	2,346
CO	2003	7	69,890	489,228	587,074	3.506	3.843	2.171	2.380	0.0210	0.0485	0.133	0.867	2.506	40%	1.504	1,622	1,946
CO	2005	35	69,890	2,446,142	2,935,370	3.286	3.603	2.035	2.231	0.0191	0.0441	0.133	0.867	2.349	0%	2.349	12,670	15,204
CO	2007	8	69,890	559,118	670,942	0.332	0.364	0.206	0.225	0.0174	0.0403	0.133	0.867	0.237	0%	0.237	292	351
CO	ALL	50		3,494,488	4,193,386												14,585	17,501
NOx	2003	7	69,890	489,228	587,074	6.258	6.876	14.114	15.502	0.0210	0.0485	0.133	0.867	13.966	0%	13.966	15,064	18,076
NOx	2005	35	69,890	2,446,142	2,935,370	5.738	6.301	10.002	10.984	0.0191	0.0441	0.133	0.867	10.082	0%	10.082	54,368	65,242
NOx	2007	8	69,890	559,118	670,942	2.997	3.282	5.225	5.722	0.0174	0.0403	0.133	0.867	5.256	0%	5.256	6,479	7,775
NOx	ALL	50		3,494,488	4,193,386												75,910	91,093
CO2	2003	7	69,890	489,228	587,074	1544.3	1615.4	1544.3	1615.4	0.0210	0.0485	0.133	0.867	1593.917	0%	1593.917	1,719,150	2,062,980
CO2	2005	35	69,890	2,446,142	2,935,370	1544.3	1615.4	1544.3	1615.4	0.0191	0.0441	0.133	0.867	1593.935	0%	1593.935	8,595,847	10,315,016
CO2	2007	8	69,890	559,118	670,942	1544.3	1615.4	1544.3	1615.4	0.0174	0.0403	0.133	0.867	1593.941	0%	1593.941	1,964,772	2,357,726
CO2	ALL	50		3,494,488	4,193,386												12,279,769	14,735,722
PM2.5	2003	7	69,890	489,228	587,074	0.2029	0.2016	0.2029	0.2016	0.0210	0.0485	0.133	0.867	0.202	20%	0.162	174	209
PM2.5	2005	35	69,890	2,446,142	2,935,370	0.2029	0.2016	0.2029	0.2016	0.0191	0.0441	0.133	0.867	0.202	0%	0.202	1,089	1,307
PM2.5	2007	8	69,890	559,118	670,942	0.0285	0.0285	0.0285	0.0285	0.0174	0.0403	0.133	0.867	0.029	0%	0.029	35	42
PM2.5	ALL	50		3,494,488	4,193,386												1,299	1,558