

Mobile Source Noise Analysis

RECEPTOR NOISE LEVEL CALCULATION FOR YEAR 2032																			
Receptor Location	Site	Hour	EXISTING CONDITIONS							2032 NO BUILD				2032 BUILD					
			Volume	%Auto	%Medium	%Heavy	%Bus	PCEs	Leq(1)	Volume	PCEs	Leq(1)	Change	P-G Volume	P-G Autos	P-G Heavy	Total PCE's	Leq (1)	Change
Palisade Ave between Locust Hill Road and New School Street	1	Weekday AM	229	76.5%	0.0%	0.0%	23.5%	1145	67.3	243	1215	67.5	0.2	107	107		1322	67.9	0.4
		Weekday PM	384	93.7%	0.7%	0.7%	4.9%	863	64.8	408	917	65.1	0.3	126	126		1043	65.7	0.6
New School Street near John Street	2	Weekday AM	445	98.5%	0.0%	0.0%	1.5%	555	66.7	472	589	67.0	0.3	337	335	2	1018	69.4	2.4
		Weekday PM	508	98.1%	0.0%	0.4%	1.5%	725	69.0	540	771	69.2	0.2	335	334	1	1152	70.9	1.7
Nepperhan Ave between New Main Street and New School Street	3	Weekday AM	2673	96.6%	1.2%	1.3%	0.9%	5099	70.7	3055	5828	71.3	0.6	308	305	3	6274	71.6	0.3
		Weekday PM	3066	97.9%	0.1%	0.2%	1.8%	4359	71.9	3549	5046	72.6	0.7	398	397	1	5490	73.0	0.4
New Main Street near Ann Street	4	Weekday AM	394	92.4%	2.9%	1.0%	3.8%	957	66.5	419	1018	66.8	0.3	45	45		1063	67.0	0.2
		Weekday PM	509	97.3%	0.0%	0.0%	2.7%	746	67.1	540	792	67.4	0.3	74	74		866	67.8	0.4
Buena Vista Ave between Hudson Street and Prospect Street	5	Weekday AM	637	94.8%	1.7%	2.6%	0.9%	1629	64.1	876	2240	64.4	0.3	156	155	1	2442	64.8	0.4
		Weekday PM	688	96.6%	0.0%	0.6%	2.9%	1203	65.3	1025	1792	65.6	0.3	118	118	0	1910	65.9	0.3
North Broadway between Main Street and Mill Street	6	Weekday AM	392	89.6%	4.7%	0.0%	5.7%	991	67.2	418	1057	67.5	0.3	7	7		1064	67.5	0.0
		Weekday PM	361	93.3%	0.0%	0.0%	6.7%	770	66.5	386	823	66.8	0.3	6	6		829	66.8	0.0
Locust Hill Road between Overlook Terrace and Palisade Ave	7	Weekday AM	184	95.3%	4.7%	0.0%	0.0%	288	65.8	196	306	66.1	0.3	144	144		450	67.8	1.7
		Weekday PM	159	98.8%	0.0%	0.0%	1.2%	190	66.9	168	201	67.1	0.2	207	207		408	70.2	3.1

Parking Garage Noise Analysis

Site	Peak Period	Peak Hour Ins	Peak Hour Outs	Total Ins/Outs	L_{eq}(1hr) @ 50 ft (dBA)
North Broadway	AM	58	119	177	48.9
	PM	124	127	251	50.4
Teutonia Hall	AM	47	164	211	49.6
	PM	178	124	302	51.2
Chicken Island Garage 1 (John Street)	AM	52	138	190	49.2
	PM	138	110	248	50.3
Chicken Island Garage 2 & 3 (New School Street)	AM	62	165	227	50.0
	PM	164	131	295	51.1
Chicken Island Garage 4 (John St at New School)	AM	21	57	78	45.3
	PM	57	46	103	46.5

Stationary Source Noise Analysis

Location	Worst-Case Receptors Considered	Existing Noise Level (minimum L90)	Equipment Noise Level	Total Noise Level	Incremental Change in Noise
Chicken Island Building 1	Residential on Palisade Avenue north of Building 1	52.3	45.7	53.2	0.9
	Commercial on James Street to west of Building 1	56.2	44.2	56.5	0.3
Chicken Island Building 2	Residential on New Main Street southwest of Building 2	56.2	49.2	57.0	0.8
	Commercial on John Street to east of Building 2	57.8	47.3	58.2	0.4
Chicken Island Building 3	Residential on New Main Street west of Building 3	56.2	49.0	57.0	0.7
	Industrial on New School Street east of Building 3	57.8	44.0	58.0	0.2
Chicken Island Building 4	Residential on Brook Street south of Building 4	59.0	43.4	59.1	0.1
	Residential on Morgan Street south of Building 4	56.2	49.1	57.0	0.8
Chicken Island Building 5	Residential Maple Street south of Building 5	59.0	48.4	59.3	0.4
	Commercial on John Street southeast of Building 5	57.8	46.8	58.2	0.3
North Broadway Building 1	Residential on Overlook Terrace east of Building 1	54.5	46.1	55.1	0.6
	Residential on Nepperhan Street west of Building 1	52.5	47.4	53.7	1.2
North Broadway Building 2	Residential on Overlook Terrace south of Building 2	54.5	44.6	54.9	0.4
	Residential on North Broadway west of Building 2	52.5	50.0	54.5	2.0
Teutonia Building 1	Residential on Water Grant Street west of Building 1	49.4	46.6	51.2	1.8
	Residential on Nepperhan Street northeast of Building 1	52.5	47.4	53.7	1.2
Teutonia Building 2	Residential on Buena Vista Ave east of Building 2	49.4	45.7	50.9	1.5
	Residential on Water Grant Street west of Building 2	49.4	47.2	51.5	2.1