

APPENDIX G
ACOUSTICAL ASSESSMENT

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 177570
Project Name: 414 South San Gabriel
Scenario: Existing

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Transportation Impact Analysis San Gabriel Self-Storage Project, LLG, January 16, 2020
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT ¹ Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
San Gabriel Boulevard													
North of East Broadway	4	10	22,480	35	0.5	1.8%	0.7%	62.5	-	69	148	318	100
East Broadway and Commercial Avenue	4	10	25,140	35	0.5	1.8%	0.7%	63.0	-	74	159	343	100
Commercial Avenue and East El Monte Street	4	10	26,240	35	0.5	1.8%	0.7%	63.2	-	76	164	353	100
South of El Monte Street	4	10	25,640	35	0.5	1.8%	0.7%	63.1	-	75	161	347	100
East Broadway													
West of San Gabriel Boulevard	2	8	7,290	30	0.5	1.8%	0.7%	56.5	-	-	59	126	100
East of San Gabriel Boulevard	2	8	9,560	30	0.5	1.8%	0.7%	57.7	-	-	70	151	100
Commercial Avenue													
East of San Gabriel Boulevard	2	0	640	25	0.5	1.8%	0.7%	44.4	-	-	-	-	100
East El Monte Street													
West of San Gabriel Boulevard	2	12	1,630	25	0.5	1.8%	0.7%	48.5	-	-	-	-	100
East of San Gabriel Boulevard	2	12	1,010	25	0.5	1.8%	0.7%	46.4	-	-	-	-	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 177570
Project Name: 414 South San Gabriel
Scenario: Existing + Project

Background Information

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 Source of Traffic Volumes: Transportation Impact Analysis San Gabriel Self-Storage Project, LLG, January 16, 2020
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT ¹ Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
San Gabriel Boulevard													
North of East Broadway	4	10	22,620	35	0.5	1.8%	0.7%	62.6	-	69	148	320	100
East Broadway and Commercial Avenue	4	10	25,380	35	0.5	1.8%	0.7%	63.1	-	74	160	345	100
Commercial Avenue and East El Monte Street	4	10	26,940	35	0.5	1.8%	0.7%	63.3	-	77	167	359	100
South of El Monte Street	4	10	26,320	35	0.5	1.8%	0.7%	63.2	-	76	164	353	100
East Broadway													
West of San Gabriel Boulevard	2	8	7,310	30	0.5	1.8%	0.7%	56.5	-	-	59	126	100
East of San Gabriel Boulevard	2	8	9,600	30	0.5	1.8%	0.7%	57.7	-	-	70	152	100
Commercial Avenue													
East of San Gabriel Boulevard	2	0	960	25	0.5	1.8%	0.7%	46.2	-	-	-	-	100
East El Monte Street													
West of San Gabriel Boulevard	2	12	1,650	25	0.5	1.8%	0.7%	48.6	-	-	-	-	100
East of San Gabriel Boulevard	2	12	1,010	25	0.5	1.8%	0.7%	46.4	-	-	-	-	100

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TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 177570
Project Name: 414 South San Gabriel
Scenario: Cumulative (2021)

Background Information

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 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT ¹ Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
San Gabriel Boulevard													
North of East Broadway	4	10	25,440	35	0.5	1.8%	0.7%	63.1	-	74	160	346	100
East Broadway and Commercial Avenue	4	10	29,140	35	0.5	1.8%	0.7%	63.7	-	82	176	378	100
Commercial Avenue and East El Monte Street	4	10	30,850	35	0.5	1.8%	0.7%	63.9	-	85	182	393	100
South of El Monte Street	4	10	30,340	35	0.5	1.8%	0.7%	63.8	-	84	180	389	100
East Broadway													
West of San Gabriel Boulevard	2	8	8,840	30	0.5	1.8%	0.7%	57.4	-	-	67	144	100
East of San Gabriel Boulevard	2	8	11,320	30	0.5	1.8%	0.7%	58.4	-	36	79	169	100
Commercial Avenue													
East of San Gabriel Boulevard	2	0	640	25	0.5	1.8%	0.7%	44.4	-	-	-	-	100
East El Monte Street													
West of San Gabriel Boulevard	2	12	1,730	25	0.5	1.8%	0.7%	48.8	-	-	-	38	100
East of San Gabriel Boulevard	2	12	1,340	25	0.5	1.8%	0.7%	47.7	-	-	-	-	100

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TRAFFIC NOISE LEVELS AND NOISE CONTOURS

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						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
San Gabriel Boulevard													
North of East Broadway	4	10	25,580	35	0.5	1.8%	0.7%	63.1	-	75	161	347	100
East Broadway and Commercial Avenue	4	10	29,380	35	0.5	1.8%	0.7%	63.7	-	82	177	380	100
Commercial Avenue and East El Monte Street	4	10	31,010	35	0.5	1.8%	0.7%	63.9	-	85	183	394	100
South of El Monte Street	4	10	30,480	35	0.5	1.8%	0.7%	63.9	-	84	181	390	100
East Broadway													
West of San Gabriel Boulevard	2	8	8,860	30	0.5	1.8%	0.7%	57.4	-	-	67	144	100
East of San Gabriel Boulevard	2	8	11,360	30	0.5	1.8%	0.7%	58.4	-	37	79	170	100
Commercial Avenue													
East of San Gabriel Boulevard	2	0	960	25	0.5	1.8%	0.7%	46.2	-	-	-	-	100
East El Monte Street													
West of San Gabriel Boulevard	2	12	1,750	25	0.5	1.8%	0.7%	48.8	-	-	-	39	100
East of San Gabriel Boulevard	2	12	1,340	25	0.5	1.8%	0.7%	47.7	-	-	-	-	100

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