Segment of Middlefield Road	Noise Leve	Noise Level @ 50 Feet	
	(L <sub>eq</sub> , dBA)	(L <sub>dn</sub> , dBA)	
From Willow Street to Charter Street	67.3	66.9	
From Charter Street to Flynn Ave.	67.7	67.2	
From Flynn Ave. to Douglas Ave.	67.6	67.2	
From Douglas Ave. to MacArthur Ave.	67.5	67.0	
From MacArthur Ave. to Hurlingame Ave.	67.5	67.1	
From Hurlingame Ave. to Northside Ave.	67.3	66.9	
From Northside Ave. to Pacific Ave.	67.1	66.7	
From Pacific Ave. to Dumbarton Ave.	66.9	66.4	
From Dumbarton Ave. to Berkshire Ave.	66.5	66.1	
From Berkshire Ave. to 1st Ave.	66.8	66.4	
From 1st Ave. to 2nd Ave.	66.8	66.3	
From 2nd Ave. to 3rd Ave.	66.6	66.1	
From 3rd Ave. to 4th Ave.	66.7	66.2	
From 4th Ave. to 5th Ave.	66.8	66.4	
From 5th Ave. to 6th Ave.	66.8	66.4	
From 6th Ave. to 7th Ave.	66.4	66.0	
From 7th Ave. to 8th Ave.	65.8	65.3	
From 8th Ave. to 9th Ave.	68.0	67.6	
From 9th Ave. to Encinca Ave.	67.7	67.3	
From Encinca Ave. to Placitas Ave.	67.5	67.0	
From Placitas Ave. to San Benito Ave.	67.4	67.0	
From San Benito Ave. to Palmer Lane	67.6	67.2	
From Palmer Lane to Holbrook Lane	68.5	68.1	
From Holbrook Lane to Marsh Road	68.4	67.9	
Notes: dB = A-weighted decibels; $L_{eq}$ = equivalent noise level; $L_{dn}$ = day-night average noise level. Source: FHWA 1978, AECOM in 2017			

## Table 1 Existing Noise Levels from Vehicular Traffic in the Project Area and the Vicinity

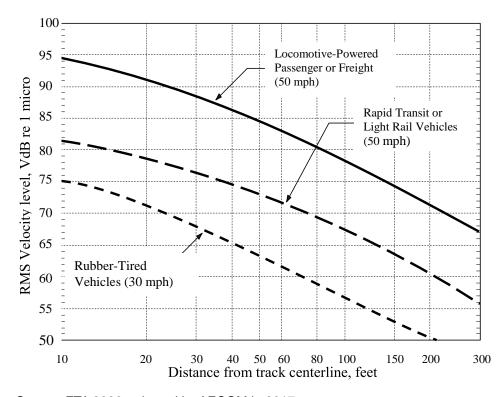
	Noise	Noise Level (L <sub>eq</sub> , dBA) @ 50 Feet		
Segment of Middlefield Road	Existing	Existing + Construction	Construction Traffic Increase over Existing	
From Willow Street to Charter Street	67.3	67.5	0.2	
From Charter Street to Flynn Ave.	67.7	67.8	0.1	
From Flynn Ave. to Douglas Ave.	67.6	67.8	0.1	
From Douglas Ave. to MacArthur Ave.	67.5	67.6	0.1	
From MacArthur Ave. to Hurlingame Ave.	67.5	67.6	0.1	
From Hurlingame Ave. to Northside Ave.	67.3	67.4	0.2	
From Northside Ave. to Pacific Ave.	67.1	67.3	0.2	
From Pacific Ave. to Dumbarton Ave.	66.9	67.0	0.2	
From Dumbarton Ave. to Berkshire Ave.	66.5	66.7	0.2	
From Berkshire Ave. to 1st Ave.	66.8	67.0	0.2	
From 1st Ave. to 2nd Ave.	66.8	66.9	0.2	
From 2nd Ave. to 3rd Ave.	66.6	66.8	0.2	
From 3rd Ave. to 4th Ave.	66.7	66.9	0.2	
From 4th Ave. to 5th Ave.	66.8	67.0	0.2	
From 5th Ave. to 6th Ave.	66.8	67.0	0.2	
From 6th Ave. to 7th Ave.	66.4	66.6	0.2	
From 7th Ave. to 8th Ave.	65.8	66.0	0.2	
From 8th Ave. to 9th Ave.	68.0	68.1	0.1	
From 9th Ave. to Encinca Ave.	67.7	67.9	0.1	
From Encinca Ave. to Placitas Ave.	67.5	67.6	0.2	
From Placitas Ave. to San Benito Ave.	67.4	67.6	0.2	
From San Benito Ave. to Palmer Lane	67.6	67.7	0.1	
From Palmer Lane to Holbrook Lane	68.5	68.6	0.1	
From Holbrook Lane to Marsh Road	68.4	68.5	0.1	
Notes: $dB = A$ -weighted decibels; $L_{eq} =$ equivalent noise Source: FHWA 1978, AECOM in 2017	level.			

Table 2 Existing Traffic Noise Levels and Construction Traffic Noise Levels

Noise Level (L<sub>dn</sub>, dBA) @ 50 Feet 2020 No 2020 2050 No 2050 Segment of Middlefield 2050 2020 Build Build Build Build 2020 2050 Road Existing No Increase Increase No Increase Increase Build Build Build over over Build over over Existing Existing Existing Existing From Willow Street to 66.9 66.9 0.0 66.2 -0.7 67.9 1.1 67.2 0.3 **Charter Street** From Charter Street to 0.0 67.2 67.2 66.6 -0.6 68.5 1.2 67.8 0.6 Flynn Ave. From Flynn Ave. to Douglas 67.2 67.2 0.0 66.6 -0.6 68.4 1.2 67.8 0.5 Ave. From Douglas Ave. to 67.0 67.0 0.0 67.3 66.3 -0.7 66.4 -0.6 0.2 MacArthur Ave. From MacArthur Ave to 67.1 67.1 0.0 67.4 0.3 66.5 66.4 -0.6 -0.6 Hurlingame Ave. From Hurlingame Ave to 66.9 0.0 -0.5 66.9 66.3 -0.5 67.3 0.4 66.3 Northside Ave. From Northside Ave. to 66.7 66.7 0.0 66.0 -0.7 66.9 0.2 65.9 -0.8 Pacific Ave. From Pacific Ave. to 66.4 66.4 0.0 65.7 -0.7 66.5 0.1 65.4 -1.0 Dumbarton Ave. From Dumbarton Ave to 66.1 0.0 -0.8 66.2 65.0 66.1 65.3 0.1 -1.1 Berkshire Ave. From Berkshire Ave. to 1st 66.4 66.4 0.0 65.6 -0.7 66.5 0.1 65.4 -1.0 Ave. From 1st Ave. to 2nd Ave. 0.0 66.5 65.3 -1.0 66.3 66.3 65.6 -0.7 0.1 From 2nd Ave. to 3rd Ave. 66.1 66.1 0.0 65.4 -0.8 66.3 0.2 65.1 -1.0 0.0 -1.0 From 3rd Ave. to 4th Ave. 66.2 66.2 65.5 -0.8 66.4 0.1 65.2 From 4th Ave. to 5th Ave. 66.4 66.4 0.0 65.6 -0.7 66.5 0.1 65.4 -1.0 From 5th Ave. to 6th Ave. 66.4 66.4 0.0 65.2 -1.2 66.8 0.4 65.2 -1.2 From 6th Ave. to 7th Ave. 66.0 66.0 0.0 64.8 -1.2 66.4 0.4 64.5 -1.5 From 7th Ave. to 8th Ave. 0.1 65.7 -1.8 65.3 65.4 63.9 -1.4 0.4 63.5 0.1 -0.7 -0.7 From 8th Ave. to 9th Ave. 67.6 67.6 66.8 68.0 0.5 66.8 From 9th Ave. to Encinca 67.3 67.4 0.1 66.5 -0.8 67.6 0.3 66.3 -1.0 Ave. From Encinca Ave. to 0.1 -0.9 67.3 65.9 67.0 67.1 66.1 0.3 -1.2 Placitas Ave. From Placitas Ave. to San 67.0 67.1 0.1 66.1 -0.9 67.3 0.3 65.9 -1.1 Benito Ave. From San Benito Ave. to 67.2 67.2 0.1 66.3 -0.8 67.5 0.3 66.1 -1.1 Palmer Lane From Palmer Lane to 68.1 68.1 0.1 67.4 -0.7 68.3 0.3 67.2 -0.8 Holbrook Lane From Holbrook Lane to 67.9 68.0 0.1 67.3 -0.7 68.2 0.2 67.0 -0.9 Marsh Road Notes: dB = A-weighted decibels;  $L_{eq} =$  equivalent noise level.

Table 3 Operational Noise Levels Along Middlefield Road from Vehicular Traffic in the Project Area and Vicinity

Source: FHWA 1978, AECOM in 2017





Source: FTA 2006, adapted by AECOM in 2017