Attachment E

FTA Noise Impact Assessment Spreadsheet

Federal Transit Administration
Noise Impact Assessment Spreadsheet

version: 1/29/2019

Project:	**I-90/Valley HPT - Argonne Station Park and Ride**

Receiver Parameters	
Receiver:	**Residence (1713 N Willow Rd)**
Land Use Category:	**2. Residential**
Existing Noise (Measured or Generic Value):	**55 dBA**

Noise Source Parameters	
Number of Noise Sources:	**2**

Noise Source Parameters		**Source 1**
	Source Type:	Highway/Transit
	Specific Source:	Buses (diesel-powered)
Daytime hrs		
	Speed (mph)	30
	Avg. Number of Events/hr	16
Nighttime hrs		
	Speed (mph)	50
	Avg. Number of Events/hr	6
Distance	**Distance from Source to Receiver (ft)**	260
	Number of Intervening Rows of Buildings	0
Adjustments	**Noise Barrier?**	No

Noise Source Parameters		**Source 2**
	Source Type:	Stationary Source
	Specific Source:	Park & Ride Lot
Daytime hrs	**Avg. Number of Autos/hr**	22
	Avg. Number of Buses/hr	18
Nighttime hrs	**Avg. Number of Autos/hr**	5
	Avg. Number of Buses/hr	8
Distance	**Distance from Source to Receiver (ft)**	625
	Number of Intervening Rows of Buildings	0
Adjustments	**Noise Barrier?**	No

Project Results Summary

Existing Ldn:	55 dBA
Total Project Ldn:	50 dBA
Total Noise Exposure:	56 dBA
Increase:	1 dB
Impact?:	None

Distance to Impact Contours

Dist to Mod. Impact Contour (Sources 1+2):	--
Dist to Sev. Impact Contour (Sources 1+2):	--

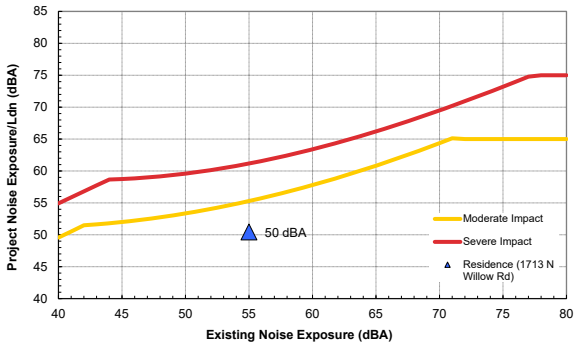
Source 1 Results

Leq(day):	44.4 dBA
Leq(night):	43.4 dBA
Ldn:	50.0 dBA

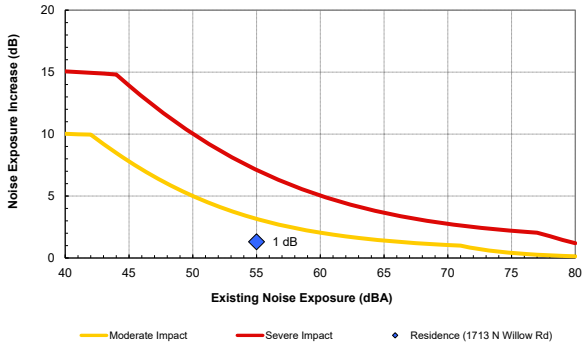
Source 2 Results

Leq(day):	36.8 dBA
Leq(night):	33.2 dBA
Ldn:	40.4 dBA
Incremental Ldn (Src 1-2):	50.4 dBA

Noise Impact Criteria
(FTA Manual, Fig 4-2)



Increase in Cumulative Noise Levels Allowed
(FTA Manual, Figs 4-3 and 4-4)



	Noise Barrier?	No

	Noise Barrier?	

	Noise Barrier?	

	Noise Barrier?	

Project: I-90/Valley HPT - Argonne Station Park and Ride
Receiver: Residence (1713 N Willow Rd)

	Source	Distance	Project Ldn	Existing Ldn	Noise Criteria Mod. Impact	Noise Criteria Sev. Impact	Impact?
1	Buses (diesel-powered)	260 ft	50.0 dBA	55 dBA	55 dBA	61 dBA	None
2	Park & Ride Lot	625 ft	40.4 dBA	55 dBA	55 dBA	61 dBA	None
3	--	350 ft		55 dBA	55 dBA	61 dBA	
4	--	70 ft		55 dBA	55 dBA	61 dBA	
5	--	ft		55 dBA	55 dBA	61 dBA	
6	--	ft		55 dBA	55 dBA	61 dBA	
	Combined Sources		**50 dBA**	**55 dBA**	**55 dBA**	**61 dBA**	**None**