

Noise Measurement Field Data

Project:	BNSF Inland Port	Job Number:	195165003	
Site No.:	ST-1	Date:	10/25/2023	
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow	Time:	5:01 PM	
Location:	Northwest Corner of Lenwood Road and Agate Road			
Noise Sources:	Railway, roadway (trucks), ambient animal noises			
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	58.8	32.9	84.4	105.3

Equipment

Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather

Temp. (degrees F):	62°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.07"
Humidity:	27%

Photo:

Summary						
File Name on Meter	ST-.007.s					
File Name on PC	LxTse_0007061-20221025 141121-ST-.007.ldbin					
Serial Number	0007061					
Model	SoundExpert® LxT					
Firmware Version	2.404					
User						
Location						
Job Description						
Note						
Measurement						
Description						
Start	2022-10-25 14:11:21					
Stop	2022-10-25 15:11:21					
Duration	01:00:00.0					
Run Time	01:00:00.0					
Pause	00:00:00.0					
Pre-Calibration	2022-10-25 14:04:19					
Post-Calibration	None					
Calibration Deviation	---					
Overall Settings						
RMS Weight	A Weighting					
Peak Weight	A Weighting					
Detector	Slow					
Preamplifier	PRMLxT1L					
Microphone Correction	FF:90 2116					
Integration Method	Linear					
OBA Range	Normal					
OBA Bandwidth	1/1 and 1/3					
OBA Frequency Weighting	A Weighting					
OBA Max Spectrum	At LMax					
Overload	122.6 dB					
	A	C	Z			
Under Range Peak	79.1	76.1	81.1 dB			
Under Range Limit	24.3	25.3	31.5 dB			
Noise Floor	15.1	16.2	22.3 dB			
	First	Second	Third			
Instrument Identification	Kimley-Horn and Associates	1100 W. Town&Country Rd, #700	Orange, CA 92868			
Results						
LAeq	58.8 dB					
LAE	94.4 dB					
EA	303.431 µPa²h					
LApeak (max)	2022-10-25 14:36:35	105.3 dB				
LASmax	2022-10-25 14:36:35	84.4 dB				
LASmin	2022-10-25 14:15:55	32.9 dB				
SEA	-99.9 dB					
	Exceedance Counts		Duration			
LAS > 85.0 dB	0		0.0 s			
LAS > 115.0 dB	0		0.0 s			
LApeak > 135.0 dB	0		0.0 s			
LApeak > 137.0 dB	0		0.0 s			
LApeak > 140.0 dB	0		0.0 s			
Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00
	58.8	58.8	-99.9	58.8	58.8	-99.9
						-99.9 dB
LCeq	75.9 dB					
LAeq	58.8 dB					
LCeq - LAeq	17.1 dB					
LALeq	62.7 dB					
LAeq	58.8 dB					
LALeq - LAeq	3.9 dB					
	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	58.8		75.9			
Ls(max)	84.4	2022/10/25 14:36:35				
Ls(min)	32.9	2022/10/25 14:15:55				
LPeak(max)	105.3	2022/10/25 14:36:35				
Overload Count	0					
Overload Duration	0.0 s					
OBA Overload Count	0					
OBA Overload Duration	0.0 s					
Statistics						
LA 5.00	65.1 dB					
LA 10.00	49.5 dB					
LA 33.30	46.2 dB					

LA 50.00
LA 66.60
LA 90.00

45.3 dB
44.1 dB
38.5 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	ST-2		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	3:30 PM
Location:	Southeast corner of Dayton Ave and Asd Rd			
Noise Sources:		Ambient animal noises, occasional roadway traffic		
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	54.9	34.8	72.7	92.3

Equipment

Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather

Temp. (degrees F):	62°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.07"
Humidity:	27%

Photo:



Summary	
File Name on Meter	22102500.RC0.s
File Name on PC	LxTse_0005586-20221025 152944-22102500.RC0.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-25 15:29:44
Stop	2022-10-25 16:29:44
Duration	01:00:00.0
Run Time	01:00:00.0
Pause	00:00:00.0
Pre-Calibration	2022-10-25 15:27:04
Post-Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Frequency Weighting	A Weighting
OBA Max Spectrum	At LMax
Overload	122.5 dB
	A C Z
Under Range Peak	79.0 76.0 81.0 dB
Under Range Limit	25.3 25.9 31.6 dB
Noise Floor	16.1 16.8 22.5 dB
	First Second Third
Instrument Identification	Kimley-Horn & Associates, Inc. 1100 W.Town & Country Rd, 700 714.939.1030

Results	
LAeq	54.9 dB
LAE	90.5 dB
EA	123.612 µPa²h
LApeak (max)	2022-10-25 15:59:40 92.3 dB
LASmax	2022-10-25 16:13:28 72.7 dB
LASmin	2022-10-25 16:14:14 34.8 dB
SEA	-99.9 dB

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0.0 s
LAS > 115.0 dB	0	0.0 s
LApeak > 135.0 dB	0	0.0 s
LApeak > 137.0 dB	0	0.0 s
LApeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	54.9	54.9	-99.9	54.9	54.9	-99.9	-99.9	dB

LCeq	64.7 dB
LAeq	54.9 dB
LCeq - LAeq	9.8 dB
LAlaq	57.9 dB
LAeq	54.9 dB
LAlaq - LAeq	3.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	54.9		64.7			
Ls(max)	72.7	2022/10/25 16:13:28				
Ls(min)	34.8	2022/10/25 16:14:14				
LPeak(max)	92.3	2022/10/25 15:59:40				

Overload Count	0
Overload Duration	0.0 s
OBA Overload Count	0
OBA Overload Duration	0.0 s

Statistics	
LA 5.00	61.6 dB
LA 10.00	55.0 dB
LA 33.30	44.8 dB

LA 50.00	40.6 dB
LA 66.60	39.0 dB
LA 90.00	37.1 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	ST-3		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	3:35 PM
Location:	Edge of 3rd Street, Near St. Philip Neri Catholic Church			
Noise Sources:		Ambient animal noises, occasional roadway traffic		
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	43.8	32.6	59.3	86.1

Equipment

Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather

Temp. (degrees F):	62°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.07"
Humidity:	27%

Photo:

Summary

File Name on Meter	ST-.008.s
File Name on PC	LxTse_0007061-20221025 153545-ST-.008.ldbin
Serial Number	0007061
Model	SoundExpert® LxT
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement

Description		
Start	2022-10-25	15:35:45
Stop	2022-10-25	16:35:45
Duration		01:00:00.0
Run Time		01:00:00.0
Pause		00:00:00.0
Pre-Calibration	2022-10-25	15:33:19
Post-Calibration		None
Calibration Deviation		---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamplifier	PRMLxT1L		
Microphone Correction	FF-90 2116		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Frequency Weighting	A Weighting		
OBA Max Spectrum	At LMax		
Overload	122.7 dB		
	A	C	Z
Under Range Peak	79.2	76.2	81.2 dB
Under Range Limit	24.3	25.4	31.5 dB
Noise Floor	15.1	16.2	22.4 dB

	First	Second	Third
Instrument Identification	Kimley-Horn and Associates	1100 W. Town&Country Rd, #700	Orange, CA 92868

Results

L _{Aeq}	43.8	dB	
L _{AE}	79.4	dB	
E _A	9.595	μPa ² h	
L _{Apeak} (max)	2022-10-25 16:34:01		86.1 dB
L _{ASmax}	2022-10-25 16:34:18		59.3 dB
L _{ASmin}	2022-10-25 16:08:10		32.6 dB
SEA	-99.9	dB	

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0.0 s
LAS > 115.0 dB	0	0.0 s
LApeak > 135.0 dB	0	0.0 s
LApeak > 137.0 dB	0	0.0 s
LApeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	43.8	43.8	-99.9	43.8	43.8	-99.9	-99.9	dB

LCeq	60.1 dB
LAeq	43.8 dB
LCeq - LAeq	16.3 dB
LAlaq	47.6 dB
LAeq	43.8 dB
LAlaq - LAeq	3.8 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	43.8		60.1			
LS(max)	59.3	2022/10/25 16:34:18				
LS(min)	32.6	2022/10/25 16:08:10				
LPeak(max)	86.1	2022/10/25 16:34:01				

Overload Count	0
Overload Duration	0.0 s
OBA Overload Count	0
OBA Overload Duration	0.0 s

Statistics

LA 5.00	49.8 dB
LA 10.00	46.6 dB
LA 33.30	41.4 dB

LA 50.00
LA 66.60
LA 90.00

39.4 dB
38.0 dB
35.8 dB

Noise Measurement Field Data				
Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	LT-1		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	12:44 PM
Location:	Main Steet			
Noise Sources:	Railway, roadway (trucks), ambient animal noises			
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	53.7	26.1	87.3	122.2

Equipment		Weather	
Sound Level Meter:	LD SoundExpert LxT	Temp. (degrees F):	66°
Calibrator:	CAL200	Wind (mph):	< 5
Response Time:	Slow	Sky:	Clear
Weighting:	A	Bar. Pressure:	30.05"
Microphone Height:	5 feet	Humidity:	12%

Photo:



Summary	
File Name on Meter	LxT_Data.001.s
File Name on PC	LxT_0006999-20221020 044604-LxT_Data.001.ldbin
Serial Number	0006999
Model	SoundTrack LxT®
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-20 04:46:04
Stop	2022-10-21 04:55:05
Duration	24:09:00.703
Run Time	24:09:00.703
Pause	00:00:00.0
Pre-Calibration	2022-10-20 04:26:18
Post-Calibration	None
Calibration Deviation	---

Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamplifier	PRMLxT1L			
Microphone Correction	Off			
Integration Method	Exponential			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Frequency Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Overload	121.7 dB			
	A	C	Z	
Under Range Peak	78.2	75.2	80.2	dB
Under Range Limit	24.0	24.8	30.7	dB
Noise Floor	14.9	15.7	21.6	dB
	First	Second	Third	
Instrument Identification				

Results			
LASeq	53.7 dB		
LASE	103.1 dB		
EAS	2.265 mPa²h		
EAS8	750.153 µPa²h		
EAS40	3.751 mPa²h		
LZpeak (max)	2022-10-20 19:27:11	122.2 dB	
LASmax	2022-10-21 04:28:55	87.3 dB	
LASmin	2022-10-20 06:41:25	26.1 dB	
SEA	138.6 dB		

	Exceedance Counts	Duration
LAS > 85.0 dB	1	3.5 s
LAS > 115.0 dB	0	0.0 s
LZpeak > 135.0 dB	0	0.0 s
LZpeak > 137.0 dB	0	0.0 s
LZpeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	dB
	61.2	52.6	55.0	61.4	52.3	53.8	55.0	

LCseq	72.7 dB
LAseq	53.7 dB
LCseq - LAseq	19.0 dB
LAleq	55.9 dB
LAeq	53.7 dB
LAleq - LAeq	2.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	53.7					
Ls(max)	87.3	2022/10/21 4:28:55				
Ls(min)	26.1	2022/10/20 6:41:25				
LPeak(max)					122.2	2022/10/20 19:27:11

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.94	0.02 %
Projected Dose	-99.94	0.01 %
TWA (Projected)	-99.9	19.3 dB
TWA (t)	-99.9	27.3 dB
Lep (t)	58.5	58.5 dB

Statistics

LAS 5.00	58.5 dB
LAS 10.00	56.4 dB
LAS 33.30	51.1 dB
LAS 50.00	47.8 dB
LAS 66.60	44.2 dB
LAS 90.00	37.5 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	LT-2		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	12:18 PM
Location:	Main Steet			
Noise Sources:	Railway, roadway (trucks), ambient animal noises			
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	69.9	16.1	106.0	121.8

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	68°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.04"
Humidity:	12%

Photo:



Summary	
File Name on Meter	LxT_Data.001.s
File Name on PC	LxT_0006996-20221020 042023-LxT_Data.001.ldbin
Serial Number	0006996
Model	SoundTrack LxT®
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-20 04:20:23
Stop	2022-10-21 04:49:07
Duration	24:28:43.797
Run Time	24:28:43.797
Pause	00:00:00.0
Pre-Calibration	2022-10-19 10:26:58
Post-Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamplifier	PRMLxT1L
Microphone Correction	Off
Integration Method	Exponential
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Frequency Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	121.3 dB
	A C Z
Under Range Peak	77.8 74.8 79.8 dB
Under Range Limit	23.9 24.6 30.4 dB
Noise Floor	14.8 15.5 21.3 dB
	First Second Third
Instrument Identification	

Results	
LASeq	69.9 dB
LASE	119.4 dB
EAS	95.687 mPa²h
EAS8	31.272 mPa²h
EAS40	156.358 mPa²h
LZpeak (max)	2022-10-20 23:32:34 121.8 dB
LASmax	2022-10-20 23:32:35 106.0 dB
LASmin	2022-10-20 13:08:18 16.1 dB
SEA	134.8 dB

	Exceedance Counts	Duration
LAS > 85.0 dB	70	375.8 s
LAS > 115.0 dB	0	0.0 s
LZpeak > 135.0 dB	0	0.0 s
LZpeak > 137.0 dB	0	0.0 s
LZpeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00
	77.2	69.1	71.0	77.3	69.7	65.3	71.0

LCSeq	78.3 dB
LASeq	69.9 dB
LCSeq - LASeq	8.4 dB
LAleq	72.1 dB
LAeq	69.9 dB
LAleq - LAeq	2.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	69.9					
Ls(max)	106.0	2022/10/20 23:32:35				

LS(min)	16.1	2022/10/20 13:08:18				
LPeak(max)					121.8	2022/10/20 23:32:34

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.20	2.02 %
Projected Dose	0.07	0.66 %
TWA (Projected)	37.1	53.8 dB
TWA (t)	45.2	61.9 dB
Lep (t)	74.8	74.8 dB

Statistics

LAS 5.00	76.7 dB
LAS 10.00	73.6 dB
LAS 33.30	53.6 dB
LAS 50.00	44.8 dB
LAS 66.60	39.2 dB
LAS 90.00	31.8 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	194091003
Site No.:	LT-3		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	2:08 PM
Location:	Main Steet			
Noise Sources:	Railway, roadway (trucks), ambient animal noises			
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	60.8	34.5	100.3	121.5

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	69°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.04"
Humidity:	12%

Photo:



Summary	
File Name on Meter	LxT_Data.001.s
File Name on PC	LxT_0006393-20221020 065605-LxT_Data.001.ldbin
Serial Number	0006393
Model	SoundTrack LxT®
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-20 06:56:05
Stop	2022-10-21 07:00:45
Duration	24:04:39.398
Run Time	24:04:39.398
Pause	00:00:00.0
Pre-Calibration	2022-10-20 06:02:37
Post-Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamplifier	PRMLxT1L
Microphone Correction	Off
Integration Method	Exponential
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Frequency Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	121.8 dB
	A C Z
Under Range Peak	78.4 75.4 80.4 dB
Under Range Limit	24.1 24.9 30.8 dB
Noise Floor	14.9 15.8 21.7 dB
	First Second Third
Instrument Identification	

Results	
LASeq	60.8 dB
LASE	110.2 dB
EAS	11.579 mPa²h
EAS8	3.847 mPa²h
EAS40	19.236 mPa²h
LZpeak (max)	2022-10-20 11:19:04 121.5 dB
LASmax	2022-10-20 11:19:04 100.3 dB
LASmin	2022-10-20 20:34:50 34.5 dB
SEA	131.5 dB

	Exceedance Counts	Duration
LAS > 85.0 dB	5	26.2 s
LAS > 115.0 dB	0	0.0 s
LZpeak > 135.0 dB	0	0.0 s
LZpeak > 137.0 dB	0	0.0 s
LZpeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00
	66.5	61.2	59.9	66.6	62.0	54.7	59.9

LCSeq	72.3 dB
LASeq	60.8 dB
LCSeq - LASeq	11.5 dB
LAleq	63.8 dB
LAeq	60.8 dB
LAleq - LAeq	3.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	60.8					
Ls(max)	100.3	2022/10/20 11:19:04				

LS(min)	34.5	2022/10/20 20:34:50				
LPeak(max)					121.5	2022/10/20 11:19:04

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.05	0.13 %
Projected Dose	0.02	0.04 %
TWA (Projected)	27.2	33.9 dB
TWA (t)	35.1	41.8 dB
Lep (t)	65.6	65.6 dB

Statistics

LAS 5.00	65.1 dB
LAS 10.00	62.0 dB
LAS 33.30	53.4 dB
LAS 50.00	49.7 dB
LAS 66.60	46.5 dB
LAS 90.00	41.4 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	LT-4		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	5:31 PM
Location:	Along Jasper Road, south of single-family residential neighborhood.			
Noise Sources:				
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	61.6	29.7	97.7	117.2

Equipment

Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather

Temp. (degrees F):	69°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.04"
Humidity:	12%

Photo:

Summary	
File Name on Meter	LT_008.s
File Name on PC	LxTse_0007061-20221025 173057-LT_008.ldbin
Serial Number	0007061
Model	SoundExpert® LxT
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-25 17:30:57
Stop	2022-10-26 17:40:15
Duration	24:09:18.102
Run Time	24:09:18.102
Pause	00:00:00.0
Pre-Calibration	2022-10-25 17:28:00
Post-Calibration	None
Calibration Deviation	---

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamplifier	PRMLxT1L		
Microphone Correction	FF:90 2116		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Frequency Weighting	A Weighting		
OBA Max Spectrum	At LMax		
Overload	122.6 dB		
	A	C	Z
Under Range Peak	79.1	76.1	81.1 dB
Under Range Limit	24.3	25.3	31.4 dB
Noise Floor	15.1	16.2	22.3 dB
	First	Second	Third
Instrument Identification	Kimley-Horn and Associates	1100 W. Town&Country Rd, #700	Orange, CA 92868

Results				
LAeq			61.6	dB
LAE			111.0	dB
EA			13.966	mPa²h
LApeak (max)	2022-10-26	15:01:23		117.2 dB
LASmax	2022-10-26	15:01:23		97.7 dB
LASmin	2022-10-26	04:35:49		29.7 dB
SEA			-99.9	dB

	Exceedance Counts	Duration
LAS > 85.0 dB	6	17.4 s
LAS > 115.0 dB	0	0.0 s
LApeak > 135.0 dB	0	0.0 s
LApeak > 137.0 dB	0	0.0 s
LApeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	66.1	62.6	59.0	66.6	62.6	62.4	59.0	dB

LCeq	78.6 dB
LAeq	61.6 dB
LCeq - LAeq	17.0 dB
LAeq	64.1 dB
LAeq	61.6 dB
LAeq - LAeq	2.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	61.6		78.6			
Ls(max)	97.7	2022/10/26 15:01:23				
Ls(min)	29.7	2022/10/26 4:35:49				
Lpeak(max)	117.2	2022/10/26 15:01:23				

Statistics	
LA 5.00	67.7 dB
LA 10.00	63.5 dB
LA 33.30	53.6 dB
LA 50.00	49.7 dB
LA 66.60	46.7 dB
LA 90.00	40.5 dB

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	194091003
Site No.:	LT-5		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	3:07 PM
Location:	West of the Ash Rd and Anderson Ave intersection			
Noise Sources:				
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	52.6	21.5	84.4	122.6

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	69°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.04"
Humidity:	12%

Photo:

Summary	
File Name on Meter	LxT_Data.001.s
File Name on PC	LxT_0007092-20221020 070550-LxT_Data.001.ldbin
Serial Number	0007092
Model	SoundTrack LxT®
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-20 07:05:50
Stop	2022-10-21 07:17:19
Duration	24:11:29.703
Run Time	24:11:29.703
Pause	00:00:00.0
Pre-Calibration	2022-10-19 10:18:30
Post-Calibration	None
Calibration Deviation	---

Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamplifier	PRMLxT1L		
Microphone Correction	Off		
Integration Method	Exponential		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Frequency Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Overload	122.1 dB		
	A	C	Z
Under Range Peak	78.6	75.6	80.6 dB
Under Range Limit	24.1	25.1	31.0 dB
Noise Floor	15.0	15.9	21.9 dB
	First	Second	Third
Instrument Identification			

Results		
LAseq	52.6 dB	
LASE	102.0 dB	
EAS	1.761 mPa²h	
EAS8	582.304 µPa²h	
EAS40	2.912 mPa²h	
LZpeak (max)	2022-10-20 21:52:47	122.6 dB
LASmax	2022-10-20 20:06:24	84.4 dB
LASmin	2022-10-20 22:27:52	21.5 dB
SEA	145.5 dB	

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0.0 s
LAS > 115.0 dB	0	0.0 s
LZpeak > 135.0 dB	0	0.0 s
LZpeak > 137.0 dB	0	0.0 s
LZpeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	58.1	53.2	51.4	58.8	52.1	56.0	51.4	dB

LCseq	72.7 dB
LAseq	52.6 dB
LCseq - LAseq	20.1 dB
LAleq	56.2 dB
LAeq	52.6 dB
LAleq - LAeq	3.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	52.6					
Ls(max)	84.4	2022/10/20 20:06:24				
Ls(min)	21.5	2022/10/20 22:27:52				
LPeak(max)					122.6	2022/10/20 21:52:47

Dose Settings		
Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results		
Dose	-99.94	0.00 %
Projected Dose	-99.94	0.00 %
TWA (Projected)	-99.9	8.1 dB
TWA (t)	-99.9	16.1 dB
Lep (t)	57.4	57.4 dB

Statistics		
LAS 5.00	56.7 dB	
LAS 10.00	53.6 dB	
LAS 33.30	47.3 dB	
LAS 50.00	44.4 dB	
LAS 66.60	41.2 dB	
LAS 90.00	34.4 dB	

Noise Measurement Field Data

Project:	BNSF Inland Port		Job Number:	195165003
Site No.:	LT-6		Date:	10/25/2023
Analyst:	Ryan Callahan, Simran Singh, Cameron Bauer, Hannah Thurlow		Time:	5:01 PM
Location:	Northwest Corner of Lenwood Road and Agate Road			
Noise Sources:				
Comments:				
Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
	64.8	29.6	93.8	107.1

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	69°
Wind (mph):	< 5
Sky:	Clear
Bar. Pressure:	30.04"
Humidity:	12%

Photo:



Summary	
File Name on Meter	22102501.RC0.s
File Name on PC	LxTse_0005586-20221025 170104-22102501.RC0.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2022-10-25 17:01:04
Stop	2022-10-26 17:24:50
Duration	24:23:46.297
Run Time	24:23:46.297
Pause	00:00:00.0
Pre-Calibration	2022-10-25 15:27:04
Post-Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Frequency Weighting	A Weighting
OBA Max Spectrum	At LMax
Overload	122.5 dB
	A C Z
Under Range Peak	79.0 76.0 81.0 dB
Under Range Limit	25.3 25.9 31.6 dB
Noise Floor	16.1 16.8 22.5 dB
	First Second Third
Instrument Identification	Kimley-Horn & Associates, Inc. 1100 W.Town & Country Rd, 700 714.939.1030

Results	
LAeq	64.8 dB
LAE	114.2 dB
EA	29.470 mPa²h
LApeak (max)	2022-10-26 02:06:51 107.1 dB
LASmax	2022-10-25 20:40:54 93.8 dB
LASmin	2022-10-26 04:57:23 29.6 dB
SEA	-99.9 dB

	Exceedance Counts	Duration
LAS > 85.0 dB	16	31.7 s
LAS > 115.0 dB	0	0.0 s
LApeak > 135.0 dB	0	0.0 s
LApeak > 137.0 dB	0	0.0 s
LApeak > 140.0 dB	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00	
	69.2	65.8	62.0	69.5	66.2	63.9	62.0	dB

LCeq	79.6 dB
LAeq	64.8 dB
LCeq - LAeq	14.8 dB
LAlaq	68.1 dB
LAeq	64.8 dB
LAlaq - LAeq	3.3 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	64.8		79.6			
Ls(max)	93.8	2022/10/25 20:40:54				
Ls(min)	29.6	2022/10/26 4:57:23				
LPeak(max)	107.1	2022/10/26 2:06:51				

Project: BNSF BIG Barstow - Block Swap Yard
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

		Receptor (Land Use)	Distance (feet)	Shielding	Direction		
1		Reference Level (50 Feet)	50		0		
						RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Noise Level at 50ft per Unit, Lmax	Reference Usage Factor	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
1 Demo, Site Preparation, Mobilization	Excavator	7	40%	81	89.2	85.2	
	Front End Loader	7	40%	79	87.6	83.6	
	Generator	4	50%	81	86.6	83.6	
	Scraper	30	40%	84	98.4	94.4	
	Dump Truck	101	40%	77	96.5	92.6	
	Dozer	19	40%	82	94.5	90.5	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					98.1	
2 Mass Grading	Excavator	51	40%	81	97.8	93.8	
	Front End Loader	66	40%	79	97.3	93.3	
	Generator	4	50%	81	86.6	83.6	
	Scraper	163	40%	84	105.7	101.7	
	Dump Truck	172	40%	77	98.9	94.9	
	Roller	3	20%	80	84.8	77.8	
	Grader	3	40%	85	89.8	85.8	
	Dozer	142	40%	82	103.2	99.2	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					105.0	
3 Drainage and Underground	Excavator	3	40%	81	85.5	81.5	
	Front End Loader	3	40%	79	83.9	79.9	
	Generator	4	50%	81	86.6	83.6	
	Crane	3	16%	81	85.4	77.4	
	Dump Truck	7	40%	77	85.0	81.0	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					88.4	
4 Bridges and Box Culverts	Excavator	6	40%	81	88.5	84.5	
	Front End Loader	5	40%	79	86.1	82.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	3	16%	81	85.4	77.4	
	Dump Truck	8	40%	77	85.5	81.6	
	Auger Drill Rig	1	20%	84	84.4	77.4	
	Backhoe	1	40%	78	77.6	73.6	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					92.2	
5 Fine Grading/Place Subballast	Generator	4	50%	81	86.6	83.6	
	Front End Loader	4	40%	79	85.1	81.1	
	Slurry Trenching Machine	4	50%	80	86.4	83.4	
	Roller	20	20%	80	93.0	86.0	
	Grader	20	40%	85	98.0	94.0	
	Dozer	11	40%	82	92.1	88.1	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					96.4	
6 Track and Signal	Excavator	5	40%	81	87.7	83.7	
	Front End Loader	5	40%	79	86.1	82.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Dump Truck	1	40%	77	76.5	72.5	
	Paver	2	50%	77	80.2	77.2	
	Front End Loader	2	40%	79	82.1	78.1	
	Backhoe	1	40%	78	77.6	73.6	
	Grapple (on backhoe)	2	40%	87	90.0	86.0	
	Compactor (ground)	1	20%	83	83.2	76.2	
	Paver	1	50%	77	77.2	74.2	
	Dozer	2	40%	82	84.7	80.7	
	Flat Bed Truck	1	40%	74	74.3	70.3	
	Combined LEQ					92.7	
7 Track and Signal	Excavator	2	40%	81	83.7	79.7	
	Front End Loader	2	40%	79	82.1	78.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	1	16%	81	80.6	72.6	
	Dump Truck	2	40%	77	79.5	75.5	
	Paver	1	50%	77	77.2	74.2	
	Front End Loader	1	40%	79	79.1	75.1	
	Backhoe	1	40%	78	77.6	73.6	
	Grapple (on backhoe)	1	40%	87	87.0	83.0	
	Compactor (ground)	1	20%	83	83.2	76.2	
	Paver	1	50%	77	77.2	74.2	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	1	40%	74	74.3	70.3	
	Combined LEQ					91.2	

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - Intermodal Facility
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

		Receptor (Land Use)	Distance (feet)	Shielding	Direction		
1		Reference Level (50 Feet)	50		0		
						RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Noise Level at 50ft per Unit, Lmax	Reference Usage Factor	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
1 Demo, Site Preparation, Mobilization	Excavator	3	40%	81	85.5	81.5	
	Front End Loader	3	40%	79	83.9	79.9	
	Generator	4	50%	81	86.6	83.6	
	Scraper	11	40%	84	94.0	90.0	
	Dump Truck	36	40%	77	92.1	88.1	
	Dozer	7	40%	82	90.2	86.2	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					94.1	
2 Mass Grading	Excavator	13	40%	81	91.8	87.9	
	Front End Loader	16	40%	79	91.1	87.2	
	Generator	4	50%	81	86.6	83.6	
	Scraper	39	40%	84	99.5	95.5	
	Dump Truck	41	40%	77	92.6	88.6	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	34	40%	82	97.0	93.0	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					99.1	
3 Drainage and Underground	Excavator	7	40%	81	89.2	85.2	
	Front End Loader	9	40%	79	88.6	84.7	
	Generator	4	50%	81	86.6	83.6	
	Slurry Trenching Machine	1	50%	80	80.4	77.4	
	Crane	1	16%	81	80.6	72.6	
	Dump Truck	23	40%	77	90.1	86.1	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					91.3	
4 Bridges and Box Culverts	Excavator	5	40%	81	87.7	83.7	
	Front End Loader	4	40%	79	85.1	81.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	3	16%	81	85.4	77.4	
	Dump Truck	7	40%	77	85.0	81.0	
	Auger Drill Rig	1	20%	84	84.4	77.4	
	Backhoe	2	40%	78	80.6	76.6	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					92.0	
5 Fine Grading/Place Subballast	Generator	4	50%	81	86.6	83.6	
	Roller	10	20%	80	90.0	83.0	
	Grader	10	40%	85	95.0	91.0	
	Dozer	5	40%	82	88.7	84.7	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					93.4	
6 Buildings/Pavement	Excavator	2	40%	81	83.7	79.7	
	Front End Loader	2	40%	79	82.1	78.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Backhoe	1	40%	78	77.6	73.6	
	Crane	1	16%	81	80.6	72.6	
	Dump Truck	4	40%	77	82.5	78.5	
	Auger Drill Rig	1	20%	84	84.4	77.4	
	Backhoe	2	40%	78	80.6	76.6	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	1	40%	74	74.3	70.3	
	Combined LEQ					91.2	
7 Track and Signal	Excavator	2	40%	81	83.7	79.7	
	Front End Loader	2	40%	79	82.1	78.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	1	16%	81	80.6	72.6	
	Dump Truck	2	40%	77	79.5	75.5	
	Paver	1	50%	77	77.2	74.2	
	Front End Loader	1	40%	79	79.1	75.1	
	Backhoe	1	40%	78	77.6	73.6	
	Grapple (on backhoe)	1	40%	87	87.0	83.0	
	Compactor (ground)	1	20%	83	83.2	76.2	
	Paver	1	50%	77	77.2	74.2	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	1	40%	74	74.3	70.3	
	Combined LEQ					91.2	

Source for Ref. Noise Levels: RCNM, 2005

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - East Leads
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

1		Receptor (Land Use)	Distance (feet)	Shielding	Direction		
		Reference Level (50 Feet)	50		0		
						RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
1 Demo, Site Preparation, Mobilization	Excavator	1	40%	81	80.7	76.7	
	Generator	4	50%	81	86.6	83.6	
	Front End Loader	1	40%	79	79.1	75.1	
	Scraper	4	40%	84	89.6	85.6	
	Dump Truck	5	40%	77	83.5	79.5	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					89.3	
2 Mass Grading	Excavator	2	40%	81	83.7	79.7	
	Generator	4	50%	81	86.6	83.6	
	Grapple (on backhoe)	1	40%	87	87.0	83.0	
	Front End Loader	2	40%	79	82.1	78.1	
	Scraper	4	40%	84	89.6	85.6	
	Dump Truck	4	40%	77	82.5	78.5	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	4	40%	82	87.7	83.7	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					92.1	
3 Bridges and Box Culverts	Auger Drill Rig	1	20%	84	84.4	77.4	
	Crane	1	16%	81	80.6	72.6	
	Excavator	2	40%	81	83.7	79.7	
	Generator	4	50%	81	86.6	83.6	
	Grader	1	40%	85	85.0	81.0	
	Generator	8	50%	81	89.6	86.6	
	Grapple (on backhoe)	3	40%	87	91.8	87.8	
	Roller	1	20%	80	80.0	73.0	
	Dozer	1	40%	82	81.7	77.7	
	Front End Loader	2	40%	79	82.1	78.1	
	Backhoe	1	40%	78	77.6	73.6	
	Dump Truck	3	40%	77	81.3	77.3	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					92.6	
4 Fine Grading/Place Subballast	Generator	4	50%	81	86.6	83.6	
	Grader	8	40%	85	94.0	90.1	
	Roller	8	20%	80	89.0	82.0	
	Dozer	4	40%	82	87.7	83.7	
	Flat Bed Truck	20	40%	74	87.3	83.3	
5 Track and Signal	Crane	1	16%	81	80.6	72.6	
	Excavator	2	40%	81	83.7	79.7	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Dump Truck	3	40%	77	81.3	77.3	
	Grapple (on backhoe)	4	40%	87	93.0	89.0	
	Paver	2	50%	77	80.2	77.2	
	Compactor (ground)	1	20%	83	83.2	76.2	
	Dozer	1	40%	82	81.7	77.7	
	Front End Loader	3	40%	79	83.9	79.9	
	Backhoe	1	40%	78	77.6	73.6	
	Combined LEQ					92.8	

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - West Leads
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

		Receptor (Land Use)	Distance (feet)	Shielding	Direction		
1		Reference Level (50 Feet)	50		0		
						RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
1 Demo, Site Preparation, Mobilization	Excavator	1	40%	81	80.7	76.7	
	Front End Loader	1	40%	79	79.1	75.1	
	Generator	4	50%	81	86.6	83.6	
	Scraper	1	40%	84	83.6	79.6	
	Dump Truck	3	40%	77	81.3	77.3	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					87.3	
2 Mass Grading	Excavator	2	40%	81	83.7	79.7	
	Front End Loader	3	40%	79	83.9	79.9	
	Generator	4	50%	81	86.6	83.6	
	Scraper	5	40%	84	90.6	86.6	
	Dump Truck	2	40%	77	79.5	75.5	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	5	40%	82	88.7	84.7	
	Flat Bed Truck	20	40%	74	87.3	83.3	
	Combined LEQ					92.0	
3 Bridges and Box Culverts	Excavator	6	40%	81	88.5	84.5	
	Front End Loader	6	40%	79	86.9	82.9	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	3	16%	81	85.4	77.4	
	Dump Truck	9	40%	77	86.0	82.1	
	Auger Drill Rig	1	20%	84	84.4	77.4	
	Backhoe	2	40%	78	80.6	76.6	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Roller	1	20%	80	80.0	73.0	
	Grader	1	40%	85	85.0	81.0	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	2	40%	74	77.3	73.3	
	Combined LEQ					92.4	
4 Fine Grading/Place Subballast	Generator	4	50%	81	86.6	83.6	
	Roller	3	20%	80	84.8	77.8	
	Grader	3	40%	85	89.8	85.8	
	Dozer	2	40%	82	84.7	80.7	
	Flat Bed Truck	20	40%	74	87.3	83.3	
5 Track and Signal	Combined LEQ					90.0	
	Excavator	2	40%	81	83.7	79.7	
	Front End Loader	2	40%	79	82.1	78.1	
	Generator	4	50%	81	86.6	83.6	
	Generator	8	50%	81	89.6	86.6	
	Crane	1	16%	81	80.6	72.6	
	Dump Truck	2	40%	77	79.5	75.5	
	Paver	1	50%	77	77.2	74.2	
	Front End Loader	1	40%	79	79.1	75.1	
	Backhoe	1	40%	78	77.6	73.6	
	Grapple (on backhoe)	2	40%	87	90.0	86.0	
	Compactor (ground)	1	20%	83	83.2	76.2	
	Paver	1	50%	77	77.2	74.2	
	Concrete Pump Truck	1	20%	81	81.4	74.4	
	Dozer	1	40%	82	81.7	77.7	
	Flat Bed Truck	1	40%	74	74.3	70.3	
	Combined LEQ					91.9	

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - Solar Farm
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

1	Receptor (Land Use)	Distance (feet)	Shielding	Direction		
	Reference Level (50 Feet)	50	0			
					RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq
1 Solar South	Excavator	1	40%	81	80.7	76.7
	Backhoe	1	40%	78	77.6	73.6
	Crane	1	16%	81	80.6	72.6
	Generator	4	50%	81	86.6	83.6
	Generator	8	50%	81	89.6	86.6
	Front End Loader	1	40%	79	79.1	75.1
	Backhoe	1	40%	78	77.6	73.6
	Mounted Impact Hammer (hoe ram)	1	20%	90	90.3	83.3
	Man Lift	1	20%	75	74.7	67.7
	Compactor (ground)	1	20%	83	83.2	76.2
	Flat Bed Truck	1	40%	74	74.3	70.3
	Flat Bed Truck	1	40%	74	74.3	70.3
	Dozer	1	40%	82	81.7	77.7
Combined LEQ					90.7	

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - 33 kV Line
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

1	Receptor (Land Use)	Distance (feet)	Shielding	Direction		
	Reference Level (50 Feet)	50	0			
					RECEPTOR	1
		Reference Noise Level at 50ft per Unit, Lmax		Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor			
1 33 kV Distribution UG	Excavator	3	40%	81	85.5	81.5
	Backhoe	2	40%	78	80.6	76.6
	Crane	1	16%	81	80.6	72.6
	Generator	4	50%	81	86.6	83.6
	Generator	8	50%	81	89.6	86.6
	Dump Truck	1	40%	77	76.5	72.5
	Auger Drill Rig	1	20%	84	84.4	77.4
	Horizontal Boring Hydr. Jack	1	25%	82	82.0	76.0
	Pickup Truck	1	40%	75	75.0	71.0
	Backhoe	1	40%	78	77.6	73.6
	Man Lift	3	20%	75	79.5	72.5
	Compactor (ground)	3	20%	83	88.0	81.0
	Flat Bed Truck	3	40%	74	79.1	75.1
	Flat Bed Truck	3	40%	74	79.1	75.1
Combined LEQ						91.0

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - East Leads
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

Receptor (Land Use)		Distance (feet)	Shielding	Direction		
1		Reference Level (50 Feet)	50	0		
					RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq
3 Bridges and Box Culverts	Auger Drill Rig	1	20%	84	84.4	77.4
	Crane	1	16%	81	80.6	72.6
	Excavator	2	40%	81	83.7	79.7
	Generator	4	50%	81	86.6	83.6
	Grader	1	40%	85	85.0	81.0
	Generator	8	50%	81	89.6	86.6
	Grapple (on backhoe)	3	40%	87	91.8	87.8
	Roller	1	20%	80	80.0	73.0
	Dozer	1	40%	82	81.7	77.7
	Front End Loader	2	40%	79	82.1	78.1
	Backhoe	1	40%	78	77.6	73.6
	Flat Bed Truck	2	40%	74	77.3	73.3
	Combined LEQ					92.5

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - Sweeten Lane Paving
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

1	Receptor (Land Use)	Distance (feet)	Shielding	Direction		
	Reference Level (50 Feet)	50	0			
					RECEPTOR	1
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq
1 Paving	Paver	1	50%	77	77.2	74.2
	Roller	1	20%	80	80.0	73.0
	Combined LEQ					76.7

Source for Ref. Noise Levels: RCNM, 2005

Project: BNSF BIG Barstow - Bridge Demolition
Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

1	Receptor (Land Use)	Distance (feet)	Shielding	Direction		
	Reference Level (50 Feet)	50	0			
					RECEPTOR	1
		Reference Noise Level at 50ft per Unit, Lmax		Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq	
Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor			
1 Demolition	Jackhammer	2	20%	89	91.9	84.9
			#N/A	#N/A	0.0	0.0
	Combined LEQ					84.9

Source for Ref. Noise Levels: RCNM, 2005

Receiver	Land Use	Block Swap Yard	Intermodal Facility	Transload Warehouse Center	East Lead Tracks	West Lead Tracks	Solar Farm	Lenwood Channel	33 kV Line	Concrete Batch Plant	Pile Driving	Sweeten Lane Paving	Bridge Demolition	Combined - All Areas
		Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
		Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
1	Residential	61.7	63.8	55.5	0.0	32.5	42.4	31.4	0.0	20.1	53.2	18.7	45.7	66.5
2	Residential	61.0	62.1	54.6	27.3	28.5	46.5	34.9	30.1	18.2	52.3	21.9	46.1	65.4
3	Residential	61.3	62.6	54.4	33.0	22.6	52.1	38.4	33.2	20.3	54.0	25.8	46.6	65.9
4	Residential	61.0	61.4	54.2	34.9	0.0	56.3	40.3	34.8	22.7	55.4	51.4	46.2	65.9
5	Residential	61.9	53.7	58.3	47.5	0.0	54.5	60.8	47.8	26.6	73.7	44.6	52.6	74.4
6	Residential	61.3	50.5	58.2	50.2	0.0	51.3	73.4	50.8	24.5	73.6	40.8	51.6	76.8
7	Residential	61.4	48.9	58.4	52.7	0.0	49.5	61.2	53.4	23.6	71.6	0.0	50.4	72.7
8	Residential	55.9	44.7	56.5	63.0	0.0	45.3	53.3	72.1	19.8	64.1	0.0	44.2	73.4
9	Residential	55.4	44.3	56.4	66.4	0.0	45.0	52.6	81.1	19.5	63.6	0.0	43.7	81.4
10	Residential	54.9	44.0	56.1	66.6	0.0	44.6	52.2	81.1	19.2	63.1	0.0	43.2	81.3
11	Residential	54.5	43.7	56.0	66.5	0.0	44.4	51.8	82.2	19.0	62.7	0.0	42.9	82.4
12	Residential	54.1	43.5	55.7	67.0	0.0	44.1	51.5	83.0	18.7	62.4	0.0	42.6	83.2
13	Residential	53.7	43.2	55.5	68.3	0.0	43.8	51.0	84.2	18.4	62.0	0.0	42.2	84.3
14	Residential	54.5	43.6	56.3	69.9	0.0	44.2	51.2	75.8	19.0	62.7	0.0	42.9	77.0
15	Residential	52.6	42.4	55.1	71.6	0.0	43.0	49.7	65.1	17.7	61.0	0.0	41.2	72.9
16	Residential	49.8	40.2	52.8	69.9	0.0	41.0	47.3	55.0	15.4	58.3	0.0	38.5	70.5
17	Residential	49.5	39.9	52.6	70.2	0.0	40.8	47.1	54.3	15.1	58.0	0.0	38.2	70.7
18	Residential	48.9	39.5	52.0	66.4	0.0	40.5	46.7	53.1	14.6	57.4	0.0	37.7	67.3
19	Residential	48.4	39.0	51.6	66.6	0.0	40.0	46.1	51.8	14.1	56.8	0.0	37.1	67.4
20	Residential	48.0	38.6	51.2	67.2	0.0	39.7	45.6	51.0	13.8	56.4	0.0	36.7	67.8
21	Residential	47.8	38.5	51.1	68.5	0.0	39.6	45.4	50.7	13.7	56.3	0.0	36.5	69.0
22	Residential	47.6	38.3	50.9	67.9	0.0	39.4	45.3	50.4	13.5	56.1	0.0	36.4	68.4
23	Residential	47.3	38.0	50.6	67.0	0.0	39.2	44.9	49.7	13.2	55.8	0.0	35.8	67.6
24	Residential	46.5	37.3	50.0	68.0	0.0	38.6	44.2	48.4	12.6	55.1	0.0	35.1	68.4
25	Residential	46.4	37.1	49.8	67.8	0.0	38.5	44.0	48.1	12.4	54.9	0.0	34.9	68.2
26	Residential	46.1	37.0	49.6	67.6	0.0	38.3	43.8	47.7	12.2	54.7	0.0	34.7	68.0
27	Residential	45.8	36.5	49.3	66.8	0.0	38.1	43.5	47.2	11.9	54.4	0.0	34.4	67.2
28	Residential	45.4	36.1	49.0	67.3	0.0	37.7	43.0	46.6	11.6	54.0	0.0	34.0	67.6
29	Residential	44.4	34.9	48.5	66.8	0.0	36.7	41.5	45.0	10.8	53.1	0.0	33.1	67.1
30	Residential	44.8	35.3	48.8	67.9	0.0	37.1	42.0	45.7	11.1	53.5	0.0	33.5	68.2
31	Residential	45.1	35.8	49.1	67.5	0.0	37.3	42.4	46.1	11.4	53.8	0.0	33.8	67.8
32	Residential	45.4	36.0	49.3	67.3	0.0	37.5	42.6	46.5	11.6	54.0	28.0	34.0	67.6
33	Residential	45.6	36.1	49.5	65.5	0.0	37.6	42.6	46.7	11.8	54.2	33.9	34.2	66.0
34	Residential	45.8	36.3	49.8	65.5	0.0	37.8	42.9	47.1	12.0	54.4	33.3	34.4	66.1
35	Residential	46.2	36.8	50.1	65.6	0.0	38.1	43.2	47.7	12.3	54.8	32.8	34.8	66.2
36	Park	46.6	37.2	50.5	67.5	0.0	38.4	43.7	48.5	12.7	55.2	32.4	35.2	67.9
37	Residential	47.0	37.5	51.0	64.7	0.0	38.6	43.9	49.0	13.1	55.6	32.1	35.6	65.6
38	Residential	47.6	38.0	51.5	64.5	0.0	39.0	44.3	49.8	13.5	56.1	31.7	36.0	65.5
39	Residential	47.9	38.4	51.8	66.2	0.0	39.3	44.8	50.6	13.8	56.5	32.1	36.6	67.0
40	Residential	48.5	38.8	52.3	66.2	0.0	39.7	45.2	51.5	14.3	57.0	30.4	37.1	67.1
41	Residential	51.5	41.3	55.4	62.6	0.0	41.7	47.3	57.2	17.0	60.1	27.9	40.1	66.0
42	Residential	51.8	41.4	55.7	62.1	0.0	41.9	47.4	57.4	17.2	60.3	27.6	40.3	65.9
43	Residential	52.2	41.7	56.2	61.4	0.0	42.0	47.5	57.6	17.6	60.7	27.2	40.7	65.8
44	Residential	52.4	41.8	56.6	60.8	0.0	42.2	47.6	57.6	17.8	61.0	26.6	41.0	65.8
45	Residential	51.3	41.1	55.4	61.8	0.0	41.5	47.0	56.4	16.9	59.9	26.2	39.9	65.4
46	Residential	51.6	41.3	55.8	61.1	0.0	41.7	47.1	56.5	17.1	60.2	26.1	40.2	65.3
47	Residential	52.0	41.6	56.3	60.4	0.0	41.9	47.2	56.7	17.5	60.6	25.9	40.6	65.3
48	Residential	52.3	41.7	56.6	59.9	0.0	42.0	47.3	56.8	17.8	60.9	25.6	40.8	65.3
49	Residential	52.1	41.6	56.8	58.9	0.0	41.8	46.9	55.8	17.7	60.8	24.9	40.7	64.9
50	Residential	52.5	41.8	57.3	58.4	0.0	42.0	47.0	55.7	18.1	61.2	24.7	41.0	65.0
51	Residential	53.0	42.2	58.1	57.6	0.0	42.3	47.1	55.4	18.6	61.8	24.5	41.5	65.3
52	Residential	59.3	58.8	55.7	0.0	43.7	33.1	0.0	0.0	30.2	66.7	24.2	48.4	68.3
53	Residential	59.5	58.9	55.8	0.0	42.7	33.7	0.0	0.0	30.5	65.1	23.8	47.7	67.3
54	Residential	51.2	49.3	49.1	0.0	60.4	0.0	0.0	0.0	20.9	63.9	22.5	42.1	65.9
55	Residential	50.2	48.1	48.3	0.0	63.4	0.0	0.0	0.0	19.7	62.5	23.0	41.3	66.2
56	Residential	49.7	47.5	47.9	0.0	63.8	0.0	0.0	0.0	19.1	61.8	23.3	40.8	66.2
57	Residential	49.2	47.0	47.5	0.0	62.9	0.0	0.0	0.0	18.6	61.1	23.5	40.3	65.4
58	Residential	48.7	46.3	47.0	0.0	63.0	0.0	0.0	0.0	18.0	60.3	23.7	39.8	65.1
59	Residential	47.5	45.1	46.0	0.0	62.2	0.0	0.0	0.0	16.8	58.7	23.8	38.7	64.0
60	Residential	46.9	44.4	45.5	0.0	61.0	0.0	0.0	0.0	16.2	57.9	24.2	38.1	63.0

Receiver	Land Use	Block Swap Yard	Intermodal Facility	Transload Warehouse Center	East Lead Tracks	West Lead Tracks	Solar Farm	Lenwood Channel	33 kV Line	Concrete Batch Plant	Pile Driving	Sweeten Lane Paving	Bridge Demolition	Combined - All Areas
		Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
		Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP	Level w/o NP
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
61	Residential	45.8	43.2	44.5	0.0	64.6	0.0	0.0	0.0	15.1	56.6	24.7	37.1	65.4
62	Residential	35.9	34.1	35.7	0.0	65.6	0.0	0.0	0.0	7.7	47.9	24.9	29.7	65.7
63	Residential	34.1	32.3	34.1	0.0	61.2	0.0	0.0	0.0	6.5	46.6	25.4	28.5	61.4
64	Residential	33.9	32.0	33.0	0.0	62.6	0.0	0.0	0.0	3.9	46.3	25.8	28.3	62.7
65	School	49.4	40.0	52.1	63.0	0.0	41.0	47.5	54.2	15.0	57.8	26.2	38.1	65.0
66	Park	49.5	40.3	51.8	59.7	0.0	41.4	48.5	54.2	15.1	57.9	28.7	38.2	63.3
67	Church	44.9	35.2	49.3	60.8	0.0	36.8	41.4	45.4	11.2	53.7	28.9	33.5	62.1
68	Church	50.2	41.1	51.8	56.9	0.0	42.4	50.5	54.7	15.6	58.5	29.1	38.9	62.8
69	School	41.4	30.6	47.1	54.4	0.0	32.7	37.6	40.7	8.6	50.9	29.2	30.5	56.9
70	Church	45.2	35.2	51.5	52.0	0.0	36.3	39.8	44.0	11.9	54.5	28.5	33.7	58.2
71	Residential	20.5	0.0	0.0	0.0	59.7	0.0	0.0	0.0	0.0	39.4	28.6	0.0	59.7
72	Residential	0.0	0.0	0.0	0.0	59.4	0.0	0.0	0.0	0.0	0.0	28.8	0.0	59.4
73	Residential	0.0	0.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0	29.0	0.0	59.0
74	Residential	0.0	0.0	0.0	0.0	64.3	0.0	0.0	0.0	0.0	0.0	28.7	0.0	64.3
75	Residential	0.0	0.0	0.0	0.0	63.4	0.0	0.0	0.0	0.0	0.0	28.9	0.0	63.4
76	Residential	0.0	0.0	0.0	0.0	64.7	0.0	0.0	0.0	0.0	0.0	29.2	0.0	64.7
77	Residential	0.0	0.0	0.0	0.0	55.1	0.0	0.0	0.0	0.0	0.0	27.8	0.0	55.1
78	Residential	0.0	0.0	0.0	0.0	52.4	0.0	0.0	0.0	0.0	0.0	28.3	0.0	52.4
79	Residential	0.0	0.0	0.0	0.0	61.6	0.0	0.0	0.0	0.0	0.0	22.7	0.0	61.6
80	Residential	0.0	0.0	0.0	0.0	62.0	0.0	0.0	0.0	0.0	0.0	29.5	0.0	62.0
81	Residential	0.0	0.0	0.0	0.0	52.4	0.0	0.0	0.0	0.0	0.0	19.4	0.0	52.4
82	Residential	0.0	0.0	0.0	0.0	55.4	0.0	0.0	0.0	0.0	0.0	22.0	0.0	55.4
83	Residential	59.3	51.5	56.6	48.0	0.0	53.5	63.5	48.5	24.7	69.9	56.3	49.4	71.6
84	Residential	58.8	51.5	56.1	47.6	0.0	53.9	61.8	48.0	24.6	68.7	67.5	48.7	72.1
85	Residential	43.1	33.5	47.4	68.0	0.0	35.7	40.2	43.2	9.7	52.0	21.4	31.9	68.2
86	Residential	57.9	55.7	52.8	37.2	0.0	61.1	42.9	36.7	24.8	56.5	30.8	43.5	64.7
87	Residential	57.6	54.9	53.4	40.3	0.0	75.7	46.6	39.6	27.9	59.5	35.4	44.4	75.9
88	Residential	58.0	55.2	53.8	40.7	0.0	73.0	47.3	40.1	28.8	60.2	36.4	45.0	73.5
89	Residential	58.1	55.3	53.9	41.0	0.0	69.7	47.7	40.4	29.0	60.6	37.1	45.2	70.7
90	Residential	57.8	54.6	54.1	42.1	0.0	64.3	49.5	41.6	28.4	61.8	39.3	45.6	67.4

Receptor	5	1	7	15	62	87	6	13	53	5	83	5	13
Land Use	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential
Noise Level	61.9	63.8	58.4	71.6	65.6	75.7	73.4	84.2	30.5	73.7	67.5	52.6	84.3

Tracker Motor Combined Noise Level

Solar Site 1

$$L_{\Sigma} = 10 \cdot \log_{10}(n) + L_1$$

Reference Noise Level: ¹	68 dBA
Reference Distance:	3 feet
Number of Sources:	83 (total number of tracker motors)
Total Noise Level (at 3 feet):	87.2 dBA

Solar Site 2

$$L_{\Sigma} = 10 \cdot \log_{10}(n) + L_1$$

Reference Noise Level: ¹	68 dBA
Reference Distance:	3 feet
Number of Sources:	252 (total number of tracker motors)
Total Noise Level (at 3 feet):	92.0 dBA

Solar Site 3

$$L_{\Sigma} = 10 \cdot \log_{10}(n) + L_1$$

Reference Noise Level: ¹	68 dBA
Reference Distance:	3 feet
Number of Sources:	18 (total number of tracker motors)
Total Noise Level (at 3 feet):	80.5 dBA

1. Reference noise level of 68 dBA @ 3' per Hankard Environmental, *Luning Solar Energy Center Noise Measurement and Analysis Results*, <https://apps.psc.wi.gov/ERF/ERFview/viewdoc.aspx?docid=384115>

2. Calculated with the inverse square law:

where: dBA₁ = Reference Noise Level, dBA₂ = Estimated Noise Level, d₁ = Reference Distance, and d₂ = Receptor Location Distance

Noise emissions of railway traffic - Existing

Existing Mainline - W of West Leads									
Rail track:			Direction:			Section: 1		Km: 0+000	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	85.4
									84.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	474551.792	3848421.213	6.40	-	-	-	-	-	-
Existing Mainline - W of Hinkley Horn Crossing 2									
Rail track:			Direction:			Section: 1		Km: 9+325	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	85.4
									84.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
9+325	482508.691	3852935.036	6.00	-	-	-	-	-	-
Existing Mainline - E of East Leads									
Rail track:			Direction:			Section: 1		Km: 18+722	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	85.4
0				0	0	-	-	-	84.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
18+722	489106.537	3859097.085	13.59	-	-	-	-	-	-
Existing Mainline - Hinkley Crossing (Horn) 2									
Rail track:			Direction:			Section: 1		Km: 10+870	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	86.7
									85.3
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+870	482888.438	3854406.782	1.85	-	-	-	-	-	-
Existing Mainline - E of Hinkley Horn Crossing									
Rail track:			Direction:			Section: 1		Km: 11+323	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	85.4
									84.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
11+323	483107.968	3854801.387	-	-	-	-	-	-	-
Existing Mainline - Hinkley Crossing (Horn) 1									
Rail track:			Direction:			Section: 1		Km: 10+487	
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		
0				32	14	113	3747	yes	86.7
									85.3
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+487	482820.355	3854031.671	5.20	-	-	-	-	-	-

Noise emissions of railway traffic - 2026 No BIG

Existing Mainline - W of West Leads				Rail track:		Direction:		Section: 1			Km: 0+000	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	85.6	84.0		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
0+000	474551.792	3848421.213	6.40	-	-	-	day	night				
Existing Mainline - W of Hinkley Horn Crossing 2												
Rail track:				Direction:		Section: 1			Km: 9+325			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	85.6	84.0		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
9+325	482508.691	3852935.036	6.00	-	-	-	day	night				
Existing Mainline - E of East Leads												
Rail track:				Direction:		Section: 1			Km: 18+722			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	85.6	84.0		
0				0	0	-	-	-	-	-		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
18+722	489106.537	3859097.085	13.59	-	-	-	day	night				
Existing Mainline - Hinkley Crossing (Horn) 2												
Rail track:				Direction:		Section: 1			Km: 10+870			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	86.8	85.3		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
10+870	482888.438	3854406.782	1.85	-	-	-	day	night				
Existing Mainline - E of Hinkley Horn Crossing												
Rail track:				Direction:		Section: 1			Km: 11+323			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	85.6	84.0		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
11+323	483107.968	3854801.387	-	-	-	-	day	night				
Existing Mainline - Hinkley Crossing (Horn) 1												
Rail track:				Direction:		Section: 1			Km: 10+487			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level			
				day	night				day dB(A)	night dB(A)		
0				33	14	113	3747	yes	86.8	85.3		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected					
X	Y	Z	Emission level									
10+487	482820.355	3854031.671	5.20	-	-	-	day	night				

Noise emissions of railway traffic - 2026 With BIG

Existing Mainline - W of South Main		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type		Number of trains		Speed		Length per train		Emission level	
		day	night	km/h		m	Max	day	night
								dB(A)	dB(A)
0		33	14	113		3747	yes	85.6	84.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	474551.792	3848421.213	3.62	-	-	-		-	-
South Mainline (Interim)		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type		Number of trains		Speed		Length per train		Emission level	
		day	night	km/h		m	Max	day	night
								dB(A)	dB(A)
0		33	14	113		3747	yes	85.6	84.1
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	482516.696	3852935.120	6.00	-	-	-		-	-
Existing Mainline - E of South Main		Rail track:		Direction:		Section: 1		Km: 18+722	
Train type		Number of trains		Speed		Length per train		Emission level	
		day	night	km/h		m	Max	day	night
								dB(A)	dB(A)
0		33	14	113		3747	yes	85.6	84.0
0		0	0	-		-	-	-	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
18+722	489106.537	3859097.085	13.59	-	-	-		-	-

Noise emissions of railway traffic - 2028 No BIG

Existing Mainline - W of West Leads				Rail track:		Direction:		Section: 1			Km: 0+000	
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	85.7	84.3		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
0+000	474551.792	3848421.213	6.40	-	-	-			-	-		
Existing Mainline - W of Hinkley Horn Crossing 2												
Rail track:				Direction:		Section: 1			Km: 9+325			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	85.7	84.3		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
9+325	482508.691	3852935.036	6.00	-	-	-			-	-		
Existing Mainline - E of East Leads												
Rail track:				Direction:		Section: 1			Km: 18+722			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	85.7	84.3		
0				0	0	-	-	-	-	-		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
18+722	489106.537	3859097.085	13.59	-	-	-			-	-		
Existing Mainline - Hinkley Crossing (Horn) 2												
Rail track:				Direction:		Section: 1			Km: 10+870			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	86.9	85.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
10+870	482888.438	3854406.782	1.85	-	-	-			-	-		
Existing Mainline - E of Hinkley Horn Crossing												
Rail track:				Direction:		Section: 1			Km: 11+323			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	85.7	84.3		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
11+323	483107.968	3854801.387	-	-	-	-			-	-		
Existing Mainline - Hinkley Crossing (Horn) 1												
Rail track:				Direction:		Section: 1			Km: 10+487			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				34	15	113	3747	yes	86.9	85.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
10+487	482820.355	3854031.671	5.20	-	-	-			-	-		

Noise emissions of railway traffic - 2028 With BIG

Mainline - W of West Leads (ALL)			Rail track:		Direction:		Section: 1			Km: 0+000	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			37	16	113	3747	yes	86.1	84.6		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	474551.792	3848421.213	3.70	-	-	-	-	-			
Block Swap - West 2											
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			7	3	32	3724	yes	68.2	66.8		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	483328.840	3854951.536	-	-	-	-	-	-			
Block Swap - West 1b											
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			7	3	32	3724	yes	68.2	66.8		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	483932.465	3855250.821	-	-	-	-	-	-			
South Mainline											
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			11	5	113	3747	yes	80.8	79.6		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	482518.093	3852935.271	6.00	-	-	-	-	-			
IMF - 4 East											
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			1	1	32	3724	yes	59.8	62.0		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	486619.891	3856921.999	5.80	-	-	-	-	-			
IMF - 3 East											
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level			
			day	night				day dB(A)	night dB(A)		
0			1	0	32	3724	yes	59.8	-		
Track Station km	Coordinates of track axis		Z	Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y					Emission level day	night			
0+000	486545.121	3857000.115	3.70	-	-	-	-	-			

Noise emissions of railway traffic

IMF - 2 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486490.848	3857052.636	2.15	-	-	-		-	-
IMF - 1 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486478.169	3857129.344	0.85	-	-	-		-	-
Block Swap East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			14	6	32	3724	yes	71.3	69.8
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487592.453	3858123.541	-	-	-	-		-	-
IMF + Block Swap - East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			14	6	32	3724	yes	71.3	69.8
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487968.738	3858349.503	7.19	-	-	-		-	-
IMF + Block Swap West		Rail track:		Direction:		Section: 1		Km: 10+053	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			14	6	32	3724	yes	71.3	69.8
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+053	482515.272	3852939.660	6.00	-	-	-		-	-
IMF West Lead		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			2	1	32	3724	yes	62.8	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	482827.115	3853692.675	4.68	-	-	-		-	-

Noise emissions of railway traffic

IMF - 1 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483716.344	3854846.750	2.95	-	-	-		-	-	
IMF - 2 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483725.491	3854836.849	3.30	-	-	-		-	-	
IMF - 3 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483725.400	3854828.942	3.60	-	-	-		-	-	
IMF - 4 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	1	32	3724	yes	59.8	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483908.617	3854871.585	5.24	-	-	-		-	-	
North Mainline - 1		Rail track:		Direction:		Section: 1			Km: 9+325	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				11	5	113	3747	yes	80.8	79.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
9+325	482509.262	3852961.590	6.00	-	-	-		-	-	
Mainline - E of BIG		Rail track:		Direction:		Section: 1			Km: 18+722	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				22	10	113	3747	yes	83.8	82.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
18+722	489104.943	3859108.245	13.00	-	-	-		-	-	

Noise emissions of railway traffic

North Mainline - 2			Rail track:		Direction:		Section: 1			Km: 10+870	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				11	5	113	3747	yes	80.8	79.6	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
10+870	482888.438	3854406.782	1.00	-	-	-	-	-			
Block Swap - West 1a											
			Rail track:		Direction:		Section: 1			Km: 1+912	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				7	3	32	3724	yes	68.2	66.8	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
1+912	482836.323	3853781.316	4.62	-	-	-	-	-			
West Leads (BIG)											
			Rail track:		Direction:		Section: 1			Km: 3+639	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				14	6	64	3724	yes	77.0	75.6	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
3+639	477796.510	3849921.902	6.00	-	-	-	-	-			
Mainline - W of BIG											
			Rail track:		Direction:		Section: 1			Km: 3+639	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				22	10	64	3747	yes	79.1	77.9	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
3+639	477797.062	3849938.641	6.00	-	-	-	-	-			
East Leads (BIG)											
			Rail track:		Direction:		Section: 1			Km: 18+722	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				17	7	64	3724	yes	77.9	76.2	
0				0	0	-	-	-	-	-	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
18+722	488917.555	3858980.752	13.50	-	-	-	-	-			
IMF East Lead											
			Rail track:		Direction:		Section: 1			Km: 0+517	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				2	1	32	3724	yes	62.8	62.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level day	night			
0+517	486802.146	3857381.606	1.25	-	-	-	-	-			

Noise emissions of railway traffic

Mainline - E of East Leads (ALL)				Rail track:		Direction:		Section: 1		Km: 21+099	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				34	15	113	3747	yes	85.7	84.3	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
	X	Y	Z				Emission level	day	night		
21+099	491234.041	3860148.102	13.20	-	-	-	-	-			

Noise emissions of railway traffic - 2033 No BIG

Existing Mainline - W of West Leads									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	86.1 84.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	474551.792	3848421.213	6.40	-	-	-	-	-	-
Existing Mainline - W of Hinkley Horn Crossing 2									
Rail track:			Direction:			Section: 1			Km: 9+325
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	86.1 84.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
9+325	482508.691	3852935.036	6.00	-	-	-	-	-	-
Existing Mainline - E of East Leads									
Rail track:			Direction:			Section: 1			Km: 18+722
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	86.1 84.6
0				0	0	-	-	-	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
18+722	489106.537	3859097.085	13.59	-	-	-	-	-	-
Existing Mainline - Hinkley Crossing (Horn) 2									
Rail track:			Direction:			Section: 1			Km: 10+870
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	87.3 85.9
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+870	482888.438	3854406.782	1.85	-	-	-	-	-	-
Existing Mainline - E of Hinkley Horn Crossing									
Rail track:			Direction:			Section: 1			Km: 11+323
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	86.1 84.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
11+323	483107.968	3854801.387	-	-	-	-	-	-	-
Existing Mainline - Hinkley Crossing (Horn) 1									
Rail track:			Direction:			Section: 1			Km: 10+487
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				37	16	113	3747	yes	87.3 85.9
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+487	482820.355	3854031.671	5.20	-	-	-	-	-	-

Noise emissions of railway traffic - 2033 With BIG

Mainline - W of West Leads (ALL)			Rail track:		Direction:		Section: 1			Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			37	16	113	3747	yes	86.1	84.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	474551.792	3848421.213	3.70	-	-	-		-	-		
Block Swap - West 2											
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			8	3	32	3724	yes	68.8	66.8		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	483328.840	3854951.536	-	-	-	-		-	-		
Block Swap - West 1b											
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			8	3	32	3724	yes	68.8	66.8		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	483932.465	3855250.821	-	-	-	-		-	-		
South Mainline											
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			12	5	113	3747	yes	81.2	79.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	482518.093	3852935.271	6.00	-	-	-		-	-		
IMF - 4 East											
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			1	1	32	3724	yes	59.8	62.0		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	486619.891	3856921.999	5.80	-	-	-		-	-		
IMF - 3 East											
Train type			Number of trains		Speed	Length per train	Max	Emission level			
			day	night	km/h	m		day	night	dB(A)	dB(A)
0			1	0	32	3724	yes	59.8	-		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+000	486545.121	3857000.115	3.70	-	-	-		-	-		

Noise emissions of railway traffic

IMF - 2 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486490.848	3857052.636	2.15	-	-	-	-	-	-
IMF - 1 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486478.169	3857129.344	0.85	-	-	-	-	-	-
Block Swap East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			16	7	32	3724	yes	71.8	70.5
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487592.453	3858123.541	-	-	-	-	-	-	-
IMF + Block Swap - East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			15	7	32	3724	yes	71.6	70.5
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487968.738	3858349.503	7.19	-	-	-	-	-	-
IMF + Block Swap West		Rail track:		Direction:		Section: 1		Km: 10+053	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			15	7	32	3724	yes	71.6	70.5
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+053	482515.272	3852939.660	6.00	-	-	-	-	-	-
IMF West Lead		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed km/h	Length per train m	Max	Emission level	
			day	night				day dB(A)	night dB(A)
0			3	1	32	3724	yes	64.6	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	482827.115	3853692.675	4.68	-	-	-	-	-	-

Noise emissions of railway traffic

IMF - 1 West		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	483716.344	3854846.750	2.95	-	-	-		-	-
IMF - 2 West		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	483725.491	3854836.849	3.30	-	-	-		-	-
IMF - 3 West		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	483725.400	3854828.942	3.60	-	-	-		-	-
IMF - 4 West		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	1	32	3724	yes	59.8	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	483908.617	3854871.585	5.24	-	-	-		-	-
North Mainline - 1		Rail track:		Direction:		Section: 1		Km: 9+325	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			12	5	113	3747	yes	81.2	79.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
9+325	482509.262	3852961.590	6.00	-	-	-		-	-
Mainline - E of BIG		Rail track:		Direction:		Section: 1		Km: 18+722	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			24	10	113	3747	yes	84.2	82.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
18+722	489104.943	3859108.245	13.00	-	-	-		-	-

Noise emissions of railway traffic

North Mainline - 2			Rail track:		Direction:		Section: 1			Km: 10+870	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				12	5	113	3747	yes	81.2	79.6	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
10+870	482888.438	3854406.782	1.00	-	-	-		-	-		
Block Swap - West 1a											
			Rail track:		Direction:		Section: 1			Km: 1+912	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				8	3	32	3724	yes	68.8	66.8	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
1+912	482836.323	3853781.316	4.62	-	-	-		-	-		
West Leads (BIG)											
			Rail track:		Direction:		Section: 1			Km: 3+639	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				15	7	64	3724	yes	77.3	76.2	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
3+639	477796.510	3849921.902	6.00	-	-	-		-	-		
Mainline - W of BIG											
			Rail track:		Direction:		Section: 1			Km: 3+639	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				24	10	64	3747	yes	79.5	77.9	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
3+639	477797.062	3849938.641	6.00	-	-	-		-	-		
East Leads (BIG)											
			Rail track:		Direction:		Section: 1			Km: 18+722	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				19	8	64	3724	yes	78.3	76.8	
0				0	0	-	-	-	-	-	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
18+722	488917.555	3858980.752	13.50	-	-	-		-	-		
IMF East Lead											
			Rail track:		Direction:		Section: 1			Km: 0+517	
Train type				Number of trains		Speed	Length per train	Max	Emission level		
				day	night	km/h	m		day	night	
									dB(A)	dB(A)	
0				3	1	32	3724	yes	64.6	62.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level			
	X	Y	Z					day	night		
0+517	486802.146	3857381.606	1.25	-	-	-		-	-		

Noise emissions of railway traffic

Mainline - E of East Leads (ALL)		Rail track:		Direction:		Section: 1		Km: 21+099	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
								dB(A)	dB(A)
0			37	16	113	3747	yes	86.1	84.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
21+099	491234.041	3860148.102	13.20	-	-	-		-	-

Noise emissions of railway traffic - 2048 No BIG

Existing Mainline - W of West Leads				Rail track:		Direction:		Section: 1			Km: 0+000	
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	87.1	85.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
0+000	474551.792	3848421.213	6.40	-	-	-			-	-		
Existing Mainline - W of Hinkley Horn Crossing 2												
Rail track:				Direction:		Section: 1			Km: 9+325			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	87.1	85.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
9+325	482508.691	3852935.036	6.00	-	-	-			-	-		
Existing Mainline - E of East Leads												
Rail track:				Direction:		Section: 1			Km: 18+722			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	87.1	85.6		
0				0	0	-	-	-	-	-		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
18+722	489106.537	3859097.085	13.59	-	-	-			-	-		
Existing Mainline - Hinkley Crossing (Horn) 2												
Rail track:				Direction:		Section: 1			Km: 10+870			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	88.4	86.9		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
10+870	482888.438	3854406.782	1.85	-	-	-			-	-		
Existing Mainline - E of Hinkley Horn Crossing												
Rail track:				Direction:		Section: 1			Km: 11+323			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	87.1	85.6		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
11+323	483107.968	3854801.387	-	-	-	-			-	-		
Existing Mainline - Hinkley Crossing (Horn) 1												
Rail track:				Direction:		Section: 1			Km: 10+487			
Train type				Number of trains		Speed	Length per train	Max	Emission level			
				day	night	km/h	m		day	night		
									dB(A)	dB(A)		
0				47	20	113	3747	yes	88.4	86.9		
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]			Corrected Emission level			
	X	Y	Z						day	night		
10+487	482820.355	3854031.671	5.20	-	-	-			-	-		

Noise emissions of railway traffic - 2048 With BIG

Mainline - W of West Leads (ALL)									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				47	20	113	3747	yes	87.1 85.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	474551.792	3848421.213	3.70	-	-	-	-	-	-
Block Swap - West 2									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				10	4	32	3724	yes	69.8 68.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	483328.840	3854951.536	-	-	-	-	-	-	-
Block Swap - West 1b									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				10	4	32	3724	yes	69.8 68.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	483932.465	3855250.821	-	-	-	-	-	-	-
South Mainline									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				15	7	113	3747	yes	82.1 81.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	482518.093	3852935.271	6.00	-	-	-	-	-	-
IMF - 4 East									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				1	1	32	3724	yes	59.8 62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486619.891	3856921.999	5.80	-	-	-	-	-	-
IMF - 3 East									
Rail track:			Direction:			Section: 1			Km: 0+000
Train type				Number of trains		Speed	Length per train	Max	Emission level
				day	night	km/h	m		day night
									dB(A) dB(A)
0				1	0	32	3724	yes	59.8 -
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486545.121	3857000.115	3.70	-	-	-	-	-	-

Noise emissions of railway traffic

IMF - 2 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486490.848	3857052.636	2.15	-	-	-		-	-
IMF - 1 East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	486478.169	3857129.344	0.85	-	-	-		-	-
Block Swap East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			20	9	32	3724	yes	72.8	71.6
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487592.453	3858123.541	-	-	-	-		-	-
IMF + Block Swap - East		Rail track:		Direction:		Section: 1		Km: 0+000	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			19	8	32	3724	yes	72.6	71.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
0+000	487968.738	3858349.503	7.19	-	-	-		-	-
IMF + Block Swap West		Rail track:		Direction:		Section: 1		Km: 10+053	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			19	8	32	3724	yes	72.6	71.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+053	482515.272	3852939.660	6.00	-	-	-		-	-
IMF West Lead		Rail track:		Direction:		Section: 1		Km: 10+580	
Train type			Number of trains		Speed	Length per train	Max	Emission level	
			day	night	km/h	m		day	night
0			3	1	32	3724	yes	64.6	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level	
	X	Y	Z					day	night
10+580	482827.115	3853692.675	4.68	-	-	-		-	-

Noise emissions of railway traffic

IMF - 1 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483716.344	3854846.750	2.95	-	-	-		-	-	
IMF - 2 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483725.491	3854836.849	3.30	-	-	-		-	-	
IMF - 3 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	0	32	3724	yes	59.8	-
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483725.400	3854828.942	3.60	-	-	-		-	-	
IMF - 4 West		Rail track:		Direction:		Section: 1			Km: 10+580	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				1	1	32	3724	yes	59.8	62.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
10+580	483908.617	3854871.585	5.24	-	-	-		-	-	
North Mainline - 1		Rail track:		Direction:		Section: 1			Km: 9+325	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				15	7	113	3747	yes	82.1	81.0
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
9+325	482509.262	3852961.590	6.00	-	-	-		-	-	
Mainline - E of BIG		Rail track:		Direction:		Section: 1			Km: 18+722	
Train type				Number of trains		Speed	Length per train	Max	Emission level	
				day	night	km/h	m		day	night
									dB(A)	dB(A)
0				30	13	113	3747	yes	85.1	83.7
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]		Corrected Emission level		
	X	Y	Z					day	night	
18+722	489104.943	3859108.245	13.00	-	-	-		-	-	

Noise emissions of railway traffic

North Mainline - 2			Rail track:		Direction:		Section: 1			Km: 10+870	
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				15	7	113	3747	yes	82.1	81.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
10+870	482888.438	3854406.782	1.00	-	-	-	-	-	-		
Block Swap - West 1a											
Rail track:			Direction:		Section: 1			Km: 1+912			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				10	4	32	3724	yes	69.8	68.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
1+912	482836.323	3853781.316	4.62	-	-	-	-	-	-		
West Leads (BIG)											
Rail track:			Direction:		Section: 1			Km: 3+639			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				19	8	64	3724	yes	78.3	76.8	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
3+639	477796.510	3849921.902	6.00	-	-	-	-	-	-		
Mainline - W of BIG											
Rail track:			Direction:		Section: 1			Km: 3+639			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				30	13	64	3747	yes	80.4	79.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
3+639	477797.062	3849938.641	6.00	-	-	-	-	-	-		
East Leads (BIG)											
Rail track:			Direction:		Section: 1			Km: 18+722			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				25	11	64	3724	yes	79.5	78.2	
0				0	0	-	-	-	-	-	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
18+722	488917.555	3858980.752	13.50	-	-	-	-	-	-		
IMF East Lead											
Rail track:			Direction:		Section: 1			Km: 0+517			
Train type				Number of trains		Speed km/h	Length per train m	Max	Emission level		
				day	night				day dB(A)	night dB(A)	
0				3	1	32	3724	yes	64.6	62.0	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected				
X	Y	Z	Emission level								
0+517	486802.146	3857381.606	1.25	-	-	-	-	-	-		

Noise emissions of railway traffic

Mainline - E of East Leads (ALL)			Rail track:		Direction:		Section: 1		Km: 21+099	
Train type			Number of trains		Speed	Length per train	Max	Emission level		
			day	night	km/h	m		day	night	
								dB(A)	dB(A)	
0			47	20	113	3747	yes	87.1	85.6	
Track Station km	Coordinates of track axis			Track type [dB]	Curve radius [dB]	Multiple reflections [dB]	Corrected			
	X	Y	Z				Emission level day	night		
21+099	491234.041	3860148.102	13.20	-	-	-	-	-		

Noise emissions of industry sources - BIG Stationary Sources

Source name	Reference	Level		Frequency spectrum [dB(A)] 500 Hz	Corrections		
			dB(A)		Cwall dB	CI dB	CT dB
IMF	Lw/unit	Day	124.3	124.3	-	-	-
		Night	124.3	124.3	-	-	-
		Lmax	124.3	124.3	-	-	-
Block Swap	Lw/unit	Day	118.8	118.8	-	-	-
		Night	118.8	118.8	-	-	-
		Lmax	118.8	118.8	-	-	-
Truck Court 3	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 4	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 5	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 6	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 1	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 2	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 12	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 11	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 12	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 13	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 19	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 2	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
Truck Court 10	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-
	Lw/unit	Day	121.2	121.2	-	-	-
		Night	121.2	121.2	-	-	-
		Lmax	121.2	121.2	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
Truck Court 10	Lw/unit	Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
	Lw/unit	Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
	Lw/unit	Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
	Lw/unit	Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
	Lw/unit	Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
Truck Court 19	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
	Lw/unit	Day	121.2		121.2	-	-	-
		Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500		Cwall	CI	CT
				Hz		dB	dB	dB
Truck Court 19	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
	Lw/unit	Night	121.2		121.2	-	-	-
		Lmax	121.2		121.2	-	-	-
		Day	121.2		121.2	-	-	-
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	
	Lmax	121.2		121.2	-	-	-	
	Day	121.2		121.2	-	-	-	
Lw/unit	Night	121.2		121.2	-	-	-	

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
Solar Array Inverter 2	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 3	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 4	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 5	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 6	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 7	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
Solar Array Inverter 8	Lw/unit	Day	91.8	91.8	-	-	-	-
		Night	-	-	-	-	-	-
		Lmax	91.8	91.8	-	-	-	-
HVAC 1	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 2	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 3	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 4	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 5	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 6	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 7	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 8	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 9	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 10	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 11	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 12	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 13	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 14	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-
		Lmax	86.9	86.9	-	-	-	-
HVAC 15	Lw/unit	Day	86.9	86.9	-	-	-	-
		Night	86.9	86.9	-	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)] 500 Hz	Corrections		
			dB(A)		Cwall dB	CI dB	CT dB
HVAC 15		Lmax	86.9	86.9	-	-	-
HVAC 16	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 17	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 18	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 19	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 20	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 21	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 22	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 23	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 24	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 25	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 26	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 27	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 28	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 29	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 30	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 31	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 32	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 33	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 34	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 35	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 36	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 37	Lw/unit	Day	86.9	86.9	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
HVAC 37		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 38	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 39	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 40	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 41	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 42	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 43	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 44	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 45	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 46	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 47	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 48	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 49	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 50	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 51	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 52	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 53	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 54	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 55	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 56	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 57	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 58	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)] 500 Hz	Corrections		
			dB(A)		Cwall dB	CI dB	CT dB
HVAC 59	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 60	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 61	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 62	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 63	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 64	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 65	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 66	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 67	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 68	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 69	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 70	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 71	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 72	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 73	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 74	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 75	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 76	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 77	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 78	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 79	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 80	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)] 500 Hz	Corrections		
			dB(A)		Cwall dB	CI dB	CT dB
HVAC 80		Lmax	86.9	86.9	-	-	-
HVAC 81	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 82	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 83	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 84	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 85	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 86	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 87	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 88	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 89	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 90	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 91	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 92	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 93	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 94	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 95	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 96	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 97	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 98	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 99	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 100	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 101	Lw/unit	Day	86.9	86.9	-	-	-
		Night	86.9	86.9	-	-	-
		Lmax	86.9	86.9	-	-	-
HVAC 102	Lw/unit	Day	86.9	86.9	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
HVAC 102		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 103	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 104	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 105	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 106	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 107	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 108	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 109	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 110	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 111	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 112	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 113	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 114	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 115	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 116	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 117	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 118	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 119	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 120	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 121	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 122	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 123	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
HVAC 124	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 125	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 126	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
HVAC 127	Lw/unit	Day	86.9		86.9	-	-	-
		Night	86.9		86.9	-	-	-
		Lmax	86.9		86.9	-	-	-
Solar Array Inverter 9	Lw/unit	Day	91.8		91.8	-	-	-
		Night	-		-	-	-	-
		Lmax	91.8		91.8	-	-	-
Solar Array Inverter 10	Lw/unit	Day	91.8		91.8	-	-	-
		Night	-		-	-	-	-
		Lmax	91.8		91.8	-	-	-
Solar Array Inverter 11	Lw/unit	Day	91.8		91.8	-	-	-
		Night	-		-	-	-	-
		Lmax	91.8		91.8	-	-	-
Solar Array Inverter 12	Lw/unit	Day	91.8		91.8	-	-	-
		Night	-		-	-	-	-
		Lmax	91.8		91.8	-	-	-
Substation Transformer	Lw/unit	Day	115.3		115.3	-	-	-
		Night	115.3		115.3	-	-	-
		Lmax	115.3		115.3	-	-	-
Substation Inverter 1	Lw/unit	Day	91.8		91.8	-	-	-
		Night	91.8		91.8	-	-	-
		Lmax	91.8		91.8	-	-	-
Block Swap Train Horn	Lw/unit	Day	126.9		126.9	-	-	-
		Night	126.9		126.9	-	-	-
		Lmax	147.7		147.7	-	-	-

Noise emissions of industry sources - Generators

Source name	Reference	Level		Frequency spectrum [dB(A)]		Corrections		
			dB(A)	500 Hz		Cwall dB	CI dB	CT dB
Generator 1	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 2	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 3	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 4	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 5	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 6	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 7	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 8	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 9	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 10	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 11	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 12	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 13	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 14	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 15	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 16	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 17	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 18	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 19	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 20	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 21	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-
		Lmax	107.7		107.7	-	-	-
Generator 22	Lw/unit	Day	107.7		107.7	-	-	-
		Night	107.7		107.7	-	-	-

Noise emissions of industry sources

Source name	Reference	Level		Frequency spectrum [dB(A)] 500 Hz	Corrections		
			dB(A)		Cwall dB	CI dB	CT dB
Generator 22		Lmax	107.7	107.7	-	-	-
Generator 23	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 24	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 25	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 26	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 27	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 28	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 43	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 44	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 45	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 46	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 47	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 48	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 49	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 50	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 51	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-
Generator 52	Lw/unit	Day	107.7	107.7	-	-	-
		Night	107.7	107.7	-	-	-
		Lmax	107.7	107.7	-	-	-

Mitigated (BAR-3) Opening Year 2028 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
					Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.5	55	Yes	58.1	45	Yes	64.7	60	Yes	61.5	55	Yes	60.9	45	Yes	67.4	60	Yes	2.0	2.8	2.7	Yes	1.5	Yes	Yes	1.5	Yes	Yes	1.5	Yes
2	Residential	County	LT-3	66.5	58.4	55	Yes	57.0	45	Yes	63.7	60	Yes	59.1	55	Yes	58.8	45	Yes	65.3	60	Yes	0.7	1.8	1.6	Yes	1.5	No	Yes	1.5	Yes	Yes	1.5	Yes
3	Residential	County	LT-3	66.5	59.6	55	Yes	58.2	45	Yes	64.8	60	Yes	59.4	55	Yes	59.0	45	Yes	65.5	60	Yes	-0.2	0.8	0.7	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
4	Residential	City	LT-3	66.5	57.0	65	No	55.6	65	No	62.3	65	No	58.8	65	No	58.3	65	No	64.8	65	No	1.8	2.7	2.5	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
5	Residential	City	LT-3	66.5	58.7	65	No	57.4	65	No	64.0	65	No	58.8	65	No	58.4	65	No	64.9	65	No	0.1	1.0	0.9	No	1.5	No	No	1.5	No	No	1.5	No
6	Residential	City	LT-5	58.1	53.1	65	No	51.7	65	No	58.3	65	No	56.0	65	No	55.7	65	No	62.2	65	No	2.9	4.0	3.9	No	5.0	No	No	5.0	No	No	5.0	No
7	Residential	City	LT-5	58.1	62.2	65	No	60.8	65	No	67.4	65	Yes	61.4	65	No	60.6	65	No	67.1	65	Yes	-0.8	-0.2	-0.3	No	5.0	No	No	5.0	No	Yes	5.0	No
8	Residential	County	LT-5	58.1	65.0	55	Yes	63.6	45	Yes	70.2	60	Yes	63.9	55	Yes	62.8	45	Yes	69.4	60	Yes	-1.1	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
9	Residential	County	LT-5	58.1	66.3	55	Yes	65.0	45	Yes	71.6	60	Yes	65.3	55	Yes	64.2	45	Yes	70.8	60	Yes	-1.0	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
10	Residential	County	LT-5	58.1	66.6	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.5	45	Yes	71.1	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
11	Residential	County	LT-5	58.1	66.9	55	Yes	65.6	45	Yes	72.2	60	Yes	66.0	55	Yes	64.8	45	Yes	71.4	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
12	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.6	60	Yes	66.3	55	Yes	65.1	45	Yes	71.7	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
13	Residential	County	LT-5	58.1	67.7	55	Yes	66.4	45	Yes	73.0	60	Yes	66.7	55	Yes	65.5	45	Yes	72.1	60	Yes	-1.0	-0.9	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
14	Residential	County	LT-5	58.1	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	68.3	45	Yes	74.9	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
15	Residential	County	LT-5	58.1	72.5	55	Yes	71.2	45	Yes	77.8	60	Yes	71.3	55	Yes	70.0	45	Yes	76.6	60	Yes	-1.2	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
16	Residential	County	LT-5	58.1	70.4	55	Yes	69.0	45	Yes	75.7	60	Yes	69.0	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.4	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
17	Residential	County	LT-5	58.1	70.4	55	Yes	69.1	45	Yes	75.7	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
18	Residential	County	LT-5	58.1	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	67.4	55	Yes	66.1	45	Yes	72.7	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
19	Residential	County	LT-5	58.1	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	68.0	55	Yes	66.7	45	Yes	73.3	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
20	Residential	County	LT-5	58.1	69.3	55	Yes	68.0	45	Yes	74.6	60	Yes	68.2	55	Yes	66.9	45	Yes	73.5	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
21	Residential	County	LT-5	58.1	70.2	55	Yes	68.9	45	Yes	75.5	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
22	Residential	County	LT-5	58.1	70.0	55	Yes	68.6	45	Yes	75.3	60	Yes	68.8	55	Yes	67.5	45	Yes	74.2	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
23	Residential	County	LT-5	58.1	69.6	55	Yes	68.2	45	Yes	74.9	60	Yes	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
24	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.2	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
25	Residential	County	LT-5	58.1	71.1	55	Yes	69.8	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.3	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
26	Residential	County	LT-5	58.1	71.2	55	Yes	69.9	45	Yes	76.5	60	Yes	70.0	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
27	Residential	County	LT-5	58.1	70.9	55	Yes	69.5	45	Yes	76.2	60	Yes	69.7	55	Yes	68.4	45	Yes	75.0	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
28	Residential	County	LT-5	58.1	72.0	55	Yes	70.7	45	Yes	77.3	60	Yes	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
29	Residential	County	LT-4	66.1	68.8	55	Yes	67.4	45	Yes	74.1	60	Yes	68.3	55	Yes	67.0	45	Yes	73.6	60	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
30	Residential	County	LT-4	66.1	73.4	55	Yes	72.0	45	Yes	78.7	60	Yes	73.3	55	Yes	72.1	45	Yes	78.7	60	Yes	-0.1	0.1	0.0	Yes	1.5	No	Yes	1.5	No			

Mitigated (BAR-3) Opening Year 2028 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT												WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
				Measured Ambient Noise Level (L _{day} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn				
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?		
83	Residential	City	LT-3	66.5	47.3	65	No	45.9	65	No	52.6	65	No	54.3	65	No	54.1	65	No	60.6	65	No	7.0	8.2	8.0	No	1.5	No	No	1.5	No	No	1.5	Yes		
84	Residential	City	LT-3	66.5	46.2	65	No	44.9	65	No	51.5	65	No	53.8	65	No	53.6	65	No	60.1	65	No	7.6	8.7	8.6	No	1.5	No	No	1.5	No	No	1.5	Yes		
85	Residential	City	LT-3	66.5	66.7	65	Yes	65.4	65	Yes	72.0	65	Yes	66.2	65	Yes	64.9	65	No	71.5	65	Yes	-0.5	-0.5	-0.5	Yes	1.5	No	No	1.5	No	Yes	1.5	No		
86	Residential	City	LT-3	66.5	46.7	65	No	45.4	65	No	52.0	65	No	53.3	65	No	53.1	65	No	59.5	65	No	6.6	7.7	7.5	No	1.5	No	No	1.5	No	No	1.5	Yes		
87	Residential	City	LT-3	66.5	45.0	65	No	43.6	65	No	50.3	65	No	54.1	65	No	53.3	65	No	59.9	65	No	9.1	9.7	9.6	No	1.5	No	No	1.5	No	No	1.5	Yes		
88	Residential	City	LT-3	66.5	45.5	65	No	44.2	65	No	50.8	65	No	54.3	65	No	53.8	65	No	60.3	65	No	8.8	9.6	9.5	No	1.5	No	No	1.5	No	No	1.5	Yes		
89	Residential	City	LT-3	66.5	45.6	65	No	44.2	65	No	50.9	65	No	54.3	65	No	53.9	65	No	60.4	65	No	8.7	9.7	9.5	No	1.5	No	No	1.5	No	No	1.5	Yes		
90	Residential	City	LT-3	66.5	45.1	65	No	43.8	65	No	50.4	65	No	54.4	65	No	54.0	65	No	60.5	65	No	9.3	10.2	10.1	No	1.5	No	No	1.5	No	No	1.5	Yes		

Mitigated (BAR-3) Opening Year 2028 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	2.0	2.8	2.7	1.5	Yes	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	0.7	1.8	1.6	1.5	No	1.5	Yes	1.5	Yes
3	Residential	County	LT-3	-0.2	0.8	0.7	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	1.8	2.7	2.5	1.5	Yes	1.5	Yes	1.5	Yes
5	Residential	City	LT-3	0.1	1.0	0.9	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	2.9	4.0	3.9	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	-0.8	-0.2	-0.3	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	-1.1	-0.8	-0.8	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	-1.0	-0.8	-0.8	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	-0.9	-0.8	-0.8	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	-0.9	-0.8	-0.8	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	-1.0	-0.9	-0.9	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	-1.2	-1.2	-1.2	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	-1.4	-1.3	-1.3	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	-1.3	-1.3	-1.3	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	-1.1	-1.0	-1.1	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	-1.2	-1.2	-1.1	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	-1.2	-1.2	-1.1	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	-1.3	-1.3	-1.3	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	-0.5	-0.4	-0.5	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	-0.1	0.1	0.0	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	-0.1	-0.1	0.0	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	-0.2	0.0	-0.1	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	-0.4	-0.3	-0.4	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No

Mitigated (BAR-3) Opening Year 2028 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
36 (Jasper Park)	Park/Recreation	County	ST-1	-0.2	-0.1	-0.1	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	-0.3	-0.2	-0.2	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	-0.5	-0.2	-0.2	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	-0.4	-0.2	-0.3	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	-0.3	-0.1	-0.2	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	-0.4	-0.1	-0.2	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	-0.3	-0.2	-0.2	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	-0.3	0.0	-0.1	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	-0.2	0.1	0.1	1.5	No	1.5	No	1.5	No
49	Residential	County	LT-4	0.0	0.3	0.3	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	0.1	0.5	0.5	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	0.3	0.9	0.7	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	-1.6	-0.6	-0.8	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	-0.6	0.5	0.3	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	-1.2	-1.0	-1.1	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	-1.4	-1.3	-1.3	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	-3.5	-3.5	-3.5	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	-4.6	-4.6	-4.5	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	-4.9	-5.0	-4.9	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	-5.0	-5.0	-5.0	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	-5.1	-5.1	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	-4.9	-4.8	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	-0.9	-0.8	-0.9	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	-0.6	-0.5	-0.5	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	-0.5	-0.4	-0.4	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	-0.3	0.0	-0.1	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	0.1	0.2	0.2	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	1.1	1.6	1.5	3.0	No	3.0	No	3.0	No

Mitigated (BAR-3) Opening Year 2028 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
71	Residential	County	LT-2	-4.8	-4.7	-4.8	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	-4.7	-4.6	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	-4.4	-4.5	-4.4	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	-4.2	-4.2	-4.2	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	0.2	0.1	0.1	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	-2.1	-2.1	-2.1	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	0.2	0.1	0.1	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	0.3	0.3	0.3	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	0.4	0.3	0.3	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	0.4	0.3	0.3	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	0.4	0.3	0.3	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	7.0	8.2	8.0	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	7.6	8.7	8.6	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	-0.5	-0.5	-0.5	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	6.6	7.7	7.5	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	9.1	9.7	9.6	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	8.8	9.6	9.5	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	8.7	9.7	9.5	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	9.3	10.2	10.1	1.5	Yes	1.5	Yes	1.5	Yes

Mitigated (BAR-3) Interim Year 2033 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis											
					Modeled Noise Level	Daytime			Nighttime			Ldn			Modeled Noise Level	Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Exceeds Standard?	Daytime			Nighttime			Ldn		
						Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level		Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Exceeds Standard?					Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	
1	Residential	County	LT-3	66.5	59.8	55	Yes	58.4	45	Yes	65.0	60	Yes	61.7	55	Yes	60.9	45	Yes	67.4	60	Yes	1.9	2.5	2.4	Yes	1.5	Yes	Yes	1.5	Yes	Yes	1.5	Yes			
2	Residential	County	LT-3	66.5	58.7	55	Yes	57.3	45	Yes	64.0	60	Yes	59.3	55	Yes	58.8	45	Yes	65.3	60	Yes	-	1.5	1.3	Yes	1.5	Yes	Yes	1.5	No	Yes	1.5	No			
3	Residential	County	LT-3	66.5	59.9	55	Yes	58.5	45	Yes	65.1	60	Yes	59.6	55	Yes	59.0	45	Yes	65.5	60	Yes	-0.3	0.5	0.4	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
4	Residential	City	LT-3	66.5	57.3	65	No	55.9	65	No	62.6	65	No	59.0	65	No	58.3	65	No	64.9	65	No	1.7	2.4	2.3	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes			
5	Residential	City	LT-3	66.5	59.1	65	No	57.7	65	No	64.3	65	No	59.0	65	No	58.4	65	No	64.9	65	No	-0.1	0.7	0.6	No	1.5	No	No	1.5	No	No	1.5	No			
6	Residential	City	LT-5	58.1	53.4	65	No	52.0	65	No	58.6	65	No	56.1	65	No	55.7	65	No	62.2	65	No	2.7	3.7	3.6	No	5.0	No	No	5.0	No	No	5.0	No			
7	Residential	City	LT-5	58.1	62.5	65	No	61.1	65	No	67.7	65	Yes	61.6	65	No	60.6	65	No	67.2	65	Yes	-0.9	-0.5	-0.5	No	5.0	No	No	5.0	No	Yes	5.0	No			
8	Residential	County	LT-5	58.1	65.3	55	Yes	63.9	45	Yes	70.5	60	Yes	64.3	55	Yes	62.9	45	Yes	69.5	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
9	Residential	County	LT-5	58.1	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.3	45	Yes	70.9	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
10	Residential	County	LT-5	58.1	67.0	55	Yes	65.6	45	Yes	72.2	60	Yes	66.1	55	Yes	64.6	45	Yes	71.3	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
11	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.5	60	Yes	66.4	55	Yes	64.9	45	Yes	71.6	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
12	Residential	County	LT-5	58.1	67.6	55	Yes	66.2	45	Yes	72.9	60	Yes	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	-0.9	-0.9	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
13	Residential	County	LT-5	58.1	68.1	55	Yes	66.6	45	Yes	73.3	60	Yes	67.1	55	Yes	65.6	45	Yes	72.3	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
14	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.3	60	Yes	69.9	55	Yes	68.4	45	Yes	75.1	60	Yes	-1.2	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
15	Residential	County	LT-5	58.1	72.9	55	Yes	71.4	45	Yes	78.1	60	Yes	71.7	55	Yes	70.1	45	Yes	76.8	60	Yes	-1.2	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
16	Residential	County	LT-5	58.1	70.7	55	Yes	69.3	45	Yes	76.0	60	Yes	69.4	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.4	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
17	Residential	County	LT-5	58.1	70.8	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.5	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
18	Residential	County	LT-5	58.1	68.9	55	Yes	67.5	45	Yes	74.1	60	Yes	67.8	55	Yes	66.2	45	Yes	72.9	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
19	Residential	County	LT-5	58.1	69.5	55	Yes	68.1	45	Yes	74.7	60	Yes	68.4	55	Yes	66.8	45	Yes	73.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
20	Residential	County	LT-5	58.1	69.7	55	Yes	68.3	45	Yes	74.9	60	Yes	68.6	55	Yes	67.1	45	Yes	73.7	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
21	Residential	County	LT-5	58.1	70.6	55	Yes	69.2	45	Yes	75.8	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
22	Residential	County	LT-5	58.1	70.3	55	Yes	68.9	45	Yes	75.6	60	Yes	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
23	Residential	County	LT-5	58.1	69.9	55	Yes	68.5	45	Yes	75.2	60	Yes	68.9	55	Yes	67.3	45	Yes	74.0	60	Yes	-1.0	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
24	Residential	County	LT-5	58.1	71.4	55	Yes	70.0	45	Yes	76.7	60	Yes	70.3	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
25	Residential	County	LT-5	58.1	71.5	55	Yes	70.1	45	Yes	76.7	60	Yes	70.4	55	Yes	68.8	45	Yes	75.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
26	Residential	County	LT-5	58.1	71.6	55	Yes	70.2	45	Yes	76.8	60	Yes	70.5	55	Yes	68.9	45	Yes	75.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
27	Residential	County	LT-5	58.1	71.2	55	Yes	69.8	45	Yes	76.5	60	Yes	70.1	55	Yes	68.5	45	Yes	75.2	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
28	Residential	County	LT-5	58.1	72.4	55	Yes	71.0	45	Yes	77.6	60	Yes	71.1	55	Yes	69.6	45	Yes	76.3	60	Yes	-1.3	-1.4	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
29	Residential	County	LT-4	66.1	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	68.7	55	Yes	67.1	45	Yes	73.8	60	Yes	-0.5	-0.6	-0.6	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
30	Residential	County	LT-4	66.1	73.7	55	Yes	72.3	45	Yes	79.0	60	Yes	73.7	55	Yes	72.2	45	Yes	78.8	60	Yes	0.0	-0.1	-0.2	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
31																																					

Mitigated (BAR-3) Interim Year 2033 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis									
				Measured Ambient Noise Level (L _{Aeq} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
83	Residential	City	LT-3	66.5	47.6	65	No	46.2	65	No	52.9	65	No	54.3	65	No	54.1	65	No	60.6	65	No	6.7	7.9	7.7	No	1.5	No	No	1.5	No	No	1.5	Yes
84	Residential	City	LT-3	66.5	46.6	65	No	45.2	65	No	51.8	65	No	53.8	65	No	53.6	65	No	60.1	65	No	7.2	8.4	8.3	No	1.5	No	No	1.5	No	No	1.5	Yes
85	Residential	City	LT-3	66.5	67.1	65	Yes	65.7	65	Yes	72.3	65	Yes	66.6	65	Yes	65.0	65	No	71.7	65	Yes	-0.5	-0.7	-0.6	Yes	1.5	No	No	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	47.1	65	No	45.7	65	No	52.3	65	No	53.3	65	No	53.1	65	No	59.5	65	No	6.2	7.4	7.2	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	45.3	65	No	43.9	65	No	50.6	65	No	54.1	65	No	53.3	65	No	59.9	65	No	8.8	9.4	9.3	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.3	65	No	53.8	65	No	60.3	65	No	8.4	9.3	9.2	No	1.5	No	No	1.5	No	No	1.5	Yes
89	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.4	65	No	53.9	65	No	60.4	65	No	8.5	9.4	9.3	No	1.5	No	No	1.5	No	No	1.5	Yes
90	Residential	City	LT-3	66.5	45.5	65	No	44.0	65	No	50.7	65	No	54.4	65	No	54.0	65	No	60.5	65	No	8.9	10.0	9.8	No	1.5	No	No	1.5	No	No	1.5	Yes

Mitigated (BAR-3) Interim Year 2033 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	1.9	2.5	2.4	1.5	Yes	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	0.6	1.5	1.3	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	-0.3	0.5	0.4	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	1.7	2.4	2.3	1.5	Yes	1.5	Yes	1.5	Yes
5	Residential	City	LT-3	-0.1	0.7	0.6	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	2.7	3.7	3.6	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	-0.9	-0.5	-0.5	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	-0.9	-0.9	-1.0	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	-1.2	-1.3	-1.2	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	-1.2	-1.3	-1.3	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	-1.3	-1.4	-1.4	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	-1.3	-1.5	-1.4	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	-1.0	-1.2	-1.2	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	-1.3	-1.4	-1.3	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	-0.5	-0.6	-0.6	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	0.0	-0.1	-0.2	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	-0.1	-0.2	-0.2	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	-0.3	-0.5	-0.5	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	-0.4	-0.5	-0.5	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	-0.4	-0.6	-0.5	1.5	No	1.5	No	1.5	No

Mitigated (BAR-3) Interim Year 2033 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
36 (Jasper Park)	Park/Recreation	County	ST-1	-0.2	-0.3	-0.3	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	-0.5	-0.5	-0.6	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	-0.4	-0.6	-0.6	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	-0.3	-0.4	-0.4	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	-0.3	-0.3	-0.4	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	-0.3	-0.1	-0.2	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
49	Residential	County	LT-4	-0.1	0.2	0.1	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	0.0	0.3	0.3	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	0.3	0.6	0.5	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	-1.9	-0.9	-1.0	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	-0.9	0.2	0.0	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	-1.1	-1.2	-1.3	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	-1.4	-1.4	-1.5	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	-3.5	-3.5	-3.5	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	-5.0	-4.8	-4.9	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	-5.1	-4.9	-5.0	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	-5.1	-5.0	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	-4.9	-4.8	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	-0.9	-1.0	-1.0	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	-0.6	-0.6	-0.6	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	-0.5	-0.6	-0.6	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	-0.3	-0.2	-0.3	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	0.0	0.1	0.1	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	1.0	1.4	1.3	3.0	No	3.0	No	3.0	No

Mitigated (BAR-3) Interim Year 2033 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis					
				Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
							Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
71	Residential	County	LT-2	-4.7	-4.7	-4.8	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	-4.7	-4.6	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	-4.5	-4.4	-4.4	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	-4.3	-4.2	-4.2	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	-2.3	-2.3	-2.3	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	-0.2	-0.1	-0.2	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	6.7	7.9	7.7	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	7.2	8.4	8.3	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	-0.5	-0.7	-0.6	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	6.2	7.4	7.2	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	8.8	9.4	9.3	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	8.4	9.3	9.2	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	8.5	9.4	9.3	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	8.9	10.0	9.8	1.5	Yes	1.5	Yes	1.5	Yes

Mitigated (BAR-3) Horizon Year 2048 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis											
					Modeled Noise Level	Daytime			Nighttime			Ldn			Modeled Noise Level	Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Exceeds Standard?	Daytime			Nighttime			Ldn		
						Noise Standard (dBA)	Exceeds Standard?		Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Modeled Noise Level	Noise Standard (dBA)		Exceeds Standard?		Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?						Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria
1	Residential	County	LT-3	66.5	60.9	55	Yes	59.4	45	Yes	66.0	60	Yes	62.2	55	Yes	61.6	45	Yes	68.1	60	Yes	1.3	2.2	2.1	Yes	1.5	No	Yes	1.5	Yes	Yes	1.5	Yes			
2	Residential	County	LT-3	66.5	59.8	55	Yes	58.3	45	Yes	64.9	60	Yes	59.6	55	Yes	59.2	45	Yes	65.7	60	Yes	-0.2	0.9	0.8	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
3	Residential	County	LT-3	66.5	61.0	55	Yes	59.5	45	Yes	66.1	60	Yes	60.0	55	Yes	59.5	45	Yes	66.0	60	Yes	-1.0	0.0	-0.1	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
4	Residential	City	LT-3	66.5	58.4	65	No	56.9	65	No	63.6	65	No	59.5	65	No	59.0	65	No	65.4	65	Yes	1.1	2.1	1.8	No	1.5	No	No	1.5	Yes	Yes	1.5	Yes			
5	Residential	City	LT-3	66.5	60.1	65	No	58.6	65	No	65.3	65	Yes	58.9	65	No	58.5	65	No	65.0	65	No	-1.2	-0.1	-0.3	No	1.5	No	No	1.5	No	No	1.5	No			
6	Residential	City	LT-5	58.1	54.5	65	No	53.0	65	No	59.6	65	No	56.3	65	No	56.0	65	No	62.5	65	No	1.8	3.0	2.9	No	5.0	No	No	5.0	No	No	5.0	No			
7	Residential	City	LT-5	58.1	63.6	65	No	62.1	65	No	68.7	65	Yes	62.3	65	No	61.5	65	No	68.0	65	Yes	-1.3	-0.6	-0.7	No	5.0	No	No	5.0	No	Yes	5.0	No			
8	Residential	County	LT-5	58.1	66.4	55	Yes	64.9	45	Yes	71.5	60	Yes	65.2	55	Yes	64.0	45	Yes	70.6	60	Yes	-1.2	-0.9	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
9	Residential	County	LT-5	58.1	67.7	55	Yes	66.2	45	Yes	72.9	60	Yes	66.7	55	Yes	65.4	45	Yes	72.0	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
10	Residential	County	LT-5	58.1	68.0	55	Yes	66.5	45	Yes	73.2	60	Yes	67.0	55	Yes	65.7	45	Yes	72.4	60	Yes	-1.0	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
11	Residential	County	LT-5	58.1	68.3	55	Yes	66.9	45	Yes	73.5	60	Yes	67.4	55	Yes	66.1	45	Yes	72.7	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
12	Residential	County	LT-5	58.1	68.7	55	Yes	67.2	45	Yes	73.9	60	Yes	67.7	55	Yes	66.4	45	Yes	73.0	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
13	Residential	County	LT-5	58.1	69.1	55	Yes	67.6	45	Yes	74.3	60	Yes	68.1	55	Yes	66.8	45	Yes	73.4	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
14	Residential	County	LT-5	58.1	72.1	55	Yes	70.6	45	Yes	77.3	60	Yes	70.9	55	Yes	69.6	45	Yes	76.2	60	Yes	-1.2	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
15	Residential	County	LT-5	58.1	73.9	55	Yes	72.4	45	Yes	79.1	60	Yes	72.7	55	Yes	71.3	45	Yes	77.9	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
16	Residential	County	LT-5	58.1	71.8	55	Yes	70.3	45	Yes	77.0	60	Yes	70.4	55	Yes	69.1	45	Yes	75.7	60	Yes	-1.4	-1.2	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
17	Residential	County	LT-5	58.1	71.8	55	Yes	70.4	45	Yes	77.0	60	Yes	70.5	55	Yes	69.1	45	Yes	75.8	60	Yes	-1.3	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
18	Residential	County	LT-5	58.1	69.9	55	Yes	68.5	45	Yes	75.1	60	Yes	68.8	55	Yes	67.4	45	Yes	74.0	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
19	Residential	County	LT-5	58.1	70.5	55	Yes	69.0	45	Yes	75.7	60	Yes	69.4	55	Yes	68.0	45	Yes	74.6	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
20	Residential	County	LT-5	58.1	70.7	55	Yes	69.2	45	Yes	75.9	60	Yes	69.6	55	Yes	68.2	45	Yes	74.9	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
21	Residential	County	LT-5	58.1	71.6	55	Yes	70.1	45	Yes	76.8	60	Yes	70.5	55	Yes	69.1	45	Yes	75.8	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
22	Residential	County	LT-5	58.1	71.4	55	Yes	69.9	45	Yes	76.5	60	Yes	70.3	55	Yes	68.9	45	Yes	75.5	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
23	Residential	County	LT-5	58.1	71.0	55	Yes	69.5	45	Yes	76.1	60	Yes	69.9	55	Yes	68.5	45	Yes	75.1	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
24	Residential	County	LT-5	58.1	72.5	55	Yes	71.0	45	Yes	77.6	60	Yes	71.3	55	Yes	69.9	45	Yes	76.6	60	Yes	-1.2	-1.1	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
25	Residential	County	LT-5	58.1	72.5	55	Yes	71.0	45	Yes	77.7	60	Yes	71.4	55	Yes	70.0	45	Yes	76.6	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
26	Residential	County	LT-5	58.1	72.7	55	Yes	71.2	45	Yes	77.8	60	Yes	71.5	55	Yes	70.1	45	Yes	76.7	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
27	Residential	County	LT-5	58.1	72.3	55	Yes	70.8	45	Yes	77.5	60	Yes	71.1	55	Yes	69.7	45	Yes	76.4	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
28	Residential	County	LT-5	58.1	73.4	55	Yes	71.9	45	Yes	78.6	60	Yes	72.2	55	Yes	70.8	45	Yes	77.4	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
29	Residential	County	LT-4	66.1	70.2	55	Yes	68.7	45	Yes	75.4	60	Yes	69.7	55	Yes	68.3	45	Yes	74.9	60	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
30	Residential	County	LT-4	66.1	74.8	55	Yes	73.3	45	Yes	79.9	60	Yes	74.7	55	Yes	73.3	45	Yes	80.0	60	Yes	-0.1	0.0	0.1	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
31	Residential	County	LT-4	66.1	747																																

Mitigated (BAR-3) Horizon Year 2048 Exterior Absolute Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis									
				Measured Ambient Noise Level (L _{day} , L _{night})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
83	Residential	City	LT-3	66.5	48.7	65	No	47.2	65	No	53.8	65	No	54.4	65	No	54.3	65	No	60.7	65	No	5.7	7.1	6.9	No	1.5	No	No	1.5	No	No	1.5	Yes
84	Residential	City	LT-3	66.5	47.6	65	No	46.1	65	No	52.8	65	No	53.9	65	No	53.8	65	No	60.2	65	No	6.3	7.7	7.4	No	1.5	No	No	1.5	No	No	1.5	Yes
85	Residential	City	LT-3	66.5	68.1	65	Yes	66.6	65	Yes	73.3	65	Yes	67.6	65	Yes	66.2	65	Yes	72.8	65	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	48.1	65	No	46.6	65	No	53.3	65	No	53.5	65	No	53.2	65	No	59.7	65	No	5.4	6.6	6.4	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	46.4	65	No	44.9	65	No	51.5	65	No	54.2	65	No	53.5	65	No	60.0	65	No	7.8	8.6	8.5	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	46.9	65	No	45.4	65	No	52.1	65	No	54.4	65	No	53.9	65	No	60.4	65	No	7.5	8.5	8.3	No	1.5	No	No	1.5	No	No	1.5	Yes
89	Residential	City	LT-3	66.5	47.0	65	No	45.5	65	No	52.1	65	No	54.5	65	No	54.0	65	No	60.5	65	No	7.5	8.5	8.4	No	1.5	No	No	1.5	No	No	1.5	Yes
90	Residential	City	LT-3	66.5	46.5	65	No	45.0	65	No	51.7	65	No	54.5	65	No	54.1	65	No	60.6	65	No	8.0	9.1	8.9	No	1.5	No	No	1.5	No	No	1.5	Yes

Mitigated (BAR-3) Horizon Year 2048 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis						
				Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
							Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	1.3	2.2	2.1	Yes	1.5	No	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	-0.2	0.9	0.8	Yes	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	-1.0	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	1.1	2.1	1.8	No	1.5	No	1.5	No	1.5	No
5	Residential	City	LT-3	-1.2	-0.1	-0.3	No	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	1.8	3.0	2.9	No	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	-1.3	-0.6	-0.7	No	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	-1.2	-0.9	-0.9	Yes	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	-1.0	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	-0.9	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	-1.2	-1.0	-1.1	Yes	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	-1.4	-1.2	-1.3	Yes	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	-1.3	-1.3	-1.2	Yes	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	-1.1	-1.0	-1.1	Yes	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	-1.1	-1.0	-1.0	Yes	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	-1.1	-1.0	-1.0	Yes	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	-1.1	-1.0	-1.0	Yes	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	-1.1	-1.0	-1.0	Yes	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	-1.2	-1.1	-1.0	Yes	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	-1.1	-1.0	-1.1	Yes	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	-0.5	-0.4	-0.5	Yes	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	-0.1	0.0	0.1	Yes	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	-0.1	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	-0.2	-0.1	-0.1	Yes	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	-0.2	-0.1	-0.1	Yes	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No

Mitigated (BAR-3) Horizon Year 2048 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis						
				Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
							Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
39	Residential	County	LT-4	-0.3	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	-0.2	-0.1	-0.1	Yes	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	-0.5	-0.3	-0.4	Yes	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	-0.5	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	-0.5	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	-0.5	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	-0.4	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	-0.4	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	-0.4	-0.1	-0.2	Yes	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	-0.4	-0.1	-0.1	Yes	1.5	No	1.5	No	1.5	No
49	Residential	County	LT-4	-0.2	0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	-0.2	0.3	0.1	Yes	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	0.0	0.4	0.3	Yes	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	-2.6	-1.5	-1.7	No	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	-1.6	-0.5	-0.7	No	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	-1.2	-0.8	-0.9	Yes	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	-1.4	-1.1	-1.2	Yes	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	-3.6	-3.4	-3.4	Yes	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	-4.6	-4.6	-4.6	Yes	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	-5.0	-4.9	-5.0	Yes	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	-5.1	-5.1	-5.0	Yes	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	-4.9	-4.9	-5.0	Yes	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	-5.1	-5.0	-5.1	Yes	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	-5.2	-5.2	-5.1	Yes	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	-5.0	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	-5.0	-5.0	-5.0	Yes	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	-1.0	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	-0.7	-0.5	-0.6	Yes	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	-0.6	-0.4	-0.5	Yes	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	-0.5	-0.2	-0.3	Yes	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	0.0	0.2	0.1	Yes	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	0.7	1.1	1.1	Yes	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	-4.8	-4.8	-4.7	Yes	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	-4.8	-4.8	-4.7	Yes	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	-4.7	-4.6	-4.6	Yes	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	-4.5	-4.6	-4.5	Yes	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	-4.3	-4.4	-4.3	Yes	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	-0.2	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No

Mitigated (BAR-3) Horizon Year 2048 Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	COMPARISON			FICAN Incremental Increase Impact Analysis						
				Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
							Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
77	Residential	County	LT-2	-2.4	-2.3	-2.4	Yes	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	-0.2	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	0.0	0.0	0.0	Yes	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	0.0	0.0	0.0	Yes	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	-0.1	0.0	0.0	Yes	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	0.1	0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	5.7	7.1	6.9	No	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	6.3	7.7	7.4	No	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	-0.5	-0.4	-0.5	Yes	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	5.4	6.6	6.4	No	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	7.8	8.6	8.5	No	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	7.5	8.5	8.3	No	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	7.5	8.5	8.4	No	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	8.0	9.1	8.9	No	1.5	Yes	1.5	Yes	1.5	Yes

Mitigated (BAR-3) BIG Operational Interior Noise Impact Analysis - Opening Year 2028

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	54.7	45	Yes	57.4	45	Yes	2.7	Yes	1.5	Yes	36.7	45	No	39.4	45	No	2.7	No	1.5	Yes
2	Residential	County	LT-3	66.5	53.7	45	Yes	55.3	45	Yes	1.6	Yes	1.5	Yes	35.7	45	No	37.3	45	No	1.6	No	1.5	Yes
3	Residential	County	LT-3	66.5	54.8	45	Yes	55.5	45	Yes	0.7	Yes	1.5	No	36.8	45	No	37.5	45	No	0.7	No	1.5	No
4	Residential	City	LT-3	66.5	52.3	45	Yes	54.8	45	Yes	2.5	Yes	1.5	Yes	34.3	45	No	36.8	45	No	2.5	No	1.5	Yes
5	Residential	City	LT-3	66.5	54.0	45	Yes	54.9	45	Yes	0.9	Yes	1.5	No	36.0	45	No	36.9	45	No	0.9	No	1.5	No
6	Residential	City	LT-5	58.1	48.3	45	Yes	52.2	45	Yes	3.9	Yes	5.0	No	30.3	45	No	34.2	45	No	3.9	No	5.0	No
7	Residential	City	LT-5	58.1	57.4	45	Yes	57.1	45	Yes	-0.3	Yes	5.0	No	39.4	45	No	39.1	45	No	-0.3	No	5.0	No
8	Residential	County	LT-5	58.1	60.2	45	Yes	59.4	45	Yes	-0.8	Yes	5.0	No	42.2	45	No	41.4	45	No	-0.8	No	5.0	No
9	Residential	County	LT-5	58.1	61.6	45	Yes	60.8	45	Yes	-0.8	Yes	5.0	No	43.6	45	No	42.8	45	No	-0.8	No	5.0	No
10	Residential	County	LT-5	58.1	61.9	45	Yes	61.1	45	Yes	-0.8	Yes	5.0	No	43.9	45	No	43.1	45	No	-0.8	No	5.0	No
11	Residential	County	LT-5	58.1	62.2	45	Yes	61.4	45	Yes	-0.8	Yes	5.0	No	44.2	45	No	43.4	45	No	-0.8	No	5.0	No
12	Residential	County	LT-5	58.1	62.6	45	Yes	61.7	45	Yes	-0.9	Yes	5.0	No	44.6	45	No	43.7	45	No	-0.9	No	5.0	No
13	Residential	County	LT-5	58.1	63.0	45	Yes	62.1	45	Yes	-0.9	Yes	5.0	No	45.0	45	No	44.1	45	No	-0.9	No	5.0	No
14	Residential	County	LT-5	58.1	66.0	45	Yes	64.9	45	Yes	-1.1	Yes	5.0	No	48.0	45	Yes	46.9	45	Yes	-1.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	67.8	45	Yes	66.6	45	Yes	-1.2	Yes	5.0	No	49.8	45	Yes	48.6	45	Yes	-1.2	Yes	5.0	No
16	Residential	County	LT-5	58.1	65.7	45	Yes	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
17	Residential	County	LT-5	58.1	65.7	45	Yes	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
18	Residential	County	LT-5	58.1	63.8	45	Yes	62.7	45	Yes	-1.1	Yes	5.0	No	45.8	45	Yes	44.7	45	No	-1.1	No	5.0	No
19	Residential	County	LT-5	58.1	64.4	45	Yes	63.3	45	Yes	-1.1	Yes	5.0	No	46.4	45	Yes	45.3	45	Yes	-1.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.6	45	Yes	63.5	45	Yes	-1.1	Yes	5.0	No	46.6	45	Yes	45.5	45	Yes	-1.1	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.5	45	Yes	64.4	45	Yes	-1.1	Yes	5.0	No	47.5	45	Yes	46.4	45	Yes	-1.1	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.3	45	Yes	64.2	45	Yes	-1.1	Yes	5.0	No	47.3	45	Yes	46.2	45	Yes	-1.1	Yes	5.0	No
23	Residential	County	LT-5	58.1	64.9	45	Yes	63.8	45	Yes	-1.1	Yes	5.0	No	46.9	45	Yes	45.8	45	Yes	-1.1	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.4	45	Yes	65.2	45	Yes	-1.2	Yes	5.0	No	48.4	45	Yes	47.2	45	Yes	-1.2	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.4	45	Yes	65.3	45	Yes	-1.1	Yes	5.0	No	48.4	45	Yes	47.3	45	Yes	-1.1	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.5	45	Yes	65.4	45	Yes	-1.1	Yes	5.0	No	48.5	45	Yes	47.4	45	Yes	-1.1	Yes	5.0	No
27	Residential	County	LT-5	58.1	66.2	45	Yes	65.0	45	Yes	-1.2	Yes	5.0	No	48.2	45	Yes	47.0	45	Yes	-1.2	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.3	45	Yes	66.0	45	Yes	-1.3	Yes	5.0	No	49.3	45	Yes	48.0	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	64.1	45	Yes	63.6	45	Yes	-0.5	Yes	1.5	No	46.1	45	Yes	45.6	45	Yes	-0.5	Yes	1.5	No
30	Residential	County	LT-4	66.1	68.7	45	Yes	68.7	45	Yes	0.0	Yes	1.5	No	50.7	45	Yes	50.7	45	Yes	0.0	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.6	45	Yes	68.6	45	Yes	0.0	Yes	1.5	No	50.6	45	Yes	50.6	45	Yes	0.0	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.6	45	Yes	68.5	45	Yes	-0.1	Yes	1.5	No	50.6	45	Yes	50.5	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	66.1	45	Yes	65.7	45	Yes	-0.4	Yes	1.5	No	48.1	45	Yes	47.7	45	Yes	-0.4	Yes	1.5	No
34	Residential	County	LT-4	66.1	66.1	45	Yes	65.8	45	Yes	-0.3	Yes	1.5	No	48.1	45	Yes	47.8	45	Yes	-0.3	Yes	1.5	No
35	Residential	County	LT-4	66.1	66.2	45	Yes	65.9	45	Yes	-0.3	Yes	1.5	No	48.2	45	Yes	47.9	45	Yes	-0.3	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	68.8	-	No	68.7	-	No	-0.1	No	5.0	No	50.8	-	No	50.7	-	No	-0.1	No	5.0	No
37	Residential	County	LT-4	66.1	64.9	45	Yes	64.5	45	Yes	-0.4	Yes	1.5	No	46.9	45	Yes	46.5	45	Yes	-0.4	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.5	45	Yes	64.1	45	Yes	-0.4	Yes	1.5	No	46.5	45	Yes	46.1	45	Yes	-0.4	Yes	1.5	No
39	Residential	County	LT-4	66.1	66.9	45	Yes	66.7	45	Yes	-0.2	Yes	1.5	No	48.9	45	Yes	48.7	45	Yes	-0.2	Yes	1.5	No
40	Residential	County	LT-4	66.1	66.7	45	Yes	66.6	45	Yes	-0.1	Yes	1.5	No	48.7	45	Yes	48.6	45	Yes	-0.1	Yes	1.5	No
41	Residential	County	LT-4	66.1	61.8	45	Yes	61.5	45	Yes	-0.3	Yes	1.5	No	43.8	45	No	43.5	45	No	-0.3	No	1.5	No
42	Residential	County	LT-4	66.1	61.1	45	Yes	60.9	45	Yes	-0.2	Yes	1.5	No	43.1	45	No	42.9	45	No	-0.2	No	1.5	No
43	Residential	County	LT-4	66.1	60.5	45	Yes	60.2	45	Yes	-0.3	Yes	1.5	No	42.5	45	No	42.2	45	No	-0.3	No	1.5	No
44	Residential	County	LT-4	66.1	59.9	45	Yes	59.7	45	Yes	-0.2	Yes	1.5	No	41.9	45	No	41.7	45	No	-0.2	No	1.5	No
45	Residential	County	LT-4	66.1	60.6	45	Yes	60.4	45	Yes	-0.2	Yes	1.5	No	42.6	45	No	42.4	45	No	-0.2	No	1.5	No
46	Residential	County	LT-4	66.1	59.8	45	Yes	59.6	45	Yes	-0.2	Yes	1.5	No	41.8	45	No	41.6	45	No	-0.2	No	1.5	No
47	Residential	County	LT-4	66.1	59.1	45	Yes	59.0	45	Yes	-0.1	Yes	1.5	No	41.1	45	No	41.0	45	No	-0.1	No	1.5	No
48	Residential	County	LT-4	66.1	58.7	45	Yes	58.8	45	Yes	0.1	Yes	1.5	No	40.7	45	No	40.8	45	No	0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.5	45	Yes	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45	No	39.8	45	No	0.3	No	1.5	No
50	Residential	County	LT-4	66.1	57.2	45	Yes	57.7	45	Yes	0.5	Yes	1.5	No	39.2	45	No	39.7	45	No	0.5	No	1.5	No
51	Residential	County	LT-4	66.1	56.9	45	Yes	57.6	45	Yes	0.7	Yes	1.5	No	38.9									

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	Impact Analysis		
					Ldn			Ldn				Ldn			Ldn			Ldn						
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	66.4	45	Yes	65.1	45	Yes	-1.3	Yes	1.5	No	48.4	45	Yes	47.1	45	Yes	-1.3	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.6	45	Yes	64.1	45	Yes	-3.5	Yes	1.5	No	49.6	45	Yes	46.1	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	66.9	45	Yes	62.4	45	Yes	-4.5	Yes	1.5	No	48.9	45	Yes	44.4	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	67.6	45	Yes	62.7	45	Yes	-4.9	Yes	1.5	No	49.6	45	Yes	44.7	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	66.5	45	Yes	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	64.7	45	Yes	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	69.2	45	Yes	64.2	45	Yes	-5.0	Yes	1.5	No	51.2	45	Yes	46.2	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.5	45	Yes	65.4	45	Yes	-5.1	Yes	1.5	No	52.5	45	Yes	47.4	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	64.7	45	Yes	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	66.5	45	Yes	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.4	45	Yes	59.5	45	Yes	-0.9	Yes	5.0	No	42.4	45	No	41.5	45	No	-0.9	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	56.7	-	No	56.2	-	No	-0.5	No	5.0	No	38.7	-	No	38.2	-	No	-0.5	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	58.0	45	Yes	57.6	45	Yes	-0.4	Yes	5.0	No	40.0	45	No	39.6	45	No	-0.4	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	53.8	45	Yes	53.7	45	Yes	-0.1	Yes	5.0	No	35.8	45	No	35.7	45	No	-0.1	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	51.7	45	Yes	51.9	45	Yes	0.2	Yes	3.0	No	33.7	45	No	33.9	45	No	0.2	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.3	45	Yes	50.8	45	Yes	1.5	Yes	3.0	No	31.3	45	No	32.8	45	No	1.5	No	3.0	No
71	Residential	County	LT-2	77.2	62.8	45	Yes	58.0	45	Yes	-4.8	Yes	1.5	No	44.8	45	No	40.0	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	62.4	45	Yes	57.7	45	Yes	-4.7	Yes	1.5	No	44.4	45	No	39.7	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	61.7	45	Yes	57.2	45	Yes	-4.5	Yes	1.5	No	43.7	45	No	39.2	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	68.2	45	Yes	63.8	45	Yes	-4.4	Yes	1.5	No	50.2	45	Yes	45.8	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.3	45	Yes	6																

Min	-5.1
Max	10.1

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	55.0	45	Yes	57.4	45	Yes	2.4	Yes	1.5	Yes	37.0	45	No	39.4	45	No	2.4	No	1.5	Yes
2	Residential	County	LT-3	66.5	54.0	45	Yes	55.3	45	Yes	1.3	Yes	1.5	No	36.0	45	No	37.3	45	No	1.3	No	1.5	No
3	Residential	County	LT-3	66.5	55.1	45	Yes	55.5	45	Yes	0.4	Yes	1.5	No	37.1	45	No	37.5	45	No	0.4	No	1.5	No
4	Residential	City	LT-3	66.5	52.6	45	Yes	54.9	45	Yes	2.3	Yes	1.5	Yes	34.6	45	No	36.9	45	No	2.3	No	1.5	Yes
5	Residential	City	LT-3	66.5	54.3	45	Yes	54.9	45	Yes	0.6	Yes	1.5	No	36.3	45	No	36.9	45	No	0.6	No	1.5	No
6	Residential	City	LT-5	58.1	48.6	45	Yes	52.2	45	Yes	3.6	Yes	5.0	Yes	30.6	45	No	34.2	45	No	3.6	No	5.0	Yes
7	Residential	City	LT-5	58.1	57.7	45	Yes	57.2	45	Yes	-0.5	Yes	5.0	No	39.7	45	No	39.2	45	No	-0.5	No	5.0	No
8	Residential	County	LT-5	58.1	60.5	45	Yes	59.5	45	Yes	-1.0	Yes	5.0	No	42.5	45	No	41.5	45	No	-1.0	No	5.0	No
9	Residential	County	LT-5	58.1	61.9	45	Yes	60.9	45	Yes	-1.0	Yes	5.0	No	43.9	45	No	42.9	45	No	-1.0	No	5.0	No
10	Residential	County	LT-5	58.1	62.2	45	Yes	61.3	45	Yes	-0.9	Yes	5.0	No	44.2	45	No	43.3	45	No	-0.9	No	5.0	No
11	Residential	County	LT-5	58.1	62.5	45	Yes	61.6	45	Yes	-0.9	Yes	5.0	No	44.5	45	No	43.6	45	No	-0.9	No	5.0	No
12	Residential	County	LT-5	58.1	62.9	45	Yes	61.9	45	Yes	-1.0	Yes	5.0	No	44.9	45	No	43.9	45	No	-1.0	No	5.0	No
13	Residential	County	LT-5	58.1	63.3	45	Yes	62.3	45	Yes	-1.0	Yes	5.0	No	45.3	45	Yes	44.3	45	No	-1.0	No	5.0	No
14	Residential	County	LT-5	58.1	66.3	45	Yes	65.1	45	Yes	-1.2	Yes	5.0	No	48.3	45	Yes	47.1	45	Yes	-1.2	Yes	5.0	No
15	Residential	County	LT-5	58.1	68.1	45	Yes	66.8	45	Yes	-1.3	Yes	5.0	No	50.1	45	Yes	48.8	45	Yes	-1.3	Yes	5.0	No
16	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
17	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
18	Residential	County	LT-5	58.1	64.1	45	Yes	62.9	45	Yes	-1.2	Yes	5.0	No	46.1	45	Yes	44.9	45	No	-1.2	No	5.0	No
19	Residential	County	LT-5	58.1	64.7	45	Yes	63.5	45	Yes	-1.2	Yes	5.0	No	46.7	45	Yes	45.5	45	Yes	-1.2	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.9	45	Yes	63.7	45	Yes	-1.2	Yes	5.0	No	46.9	45	Yes	45.7	45	Yes	-1.2	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.8	45	Yes	64.6	45	Yes	-1.2	Yes	5.0	No	47.8	45	Yes	46.6	45	Yes	-1.2	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.6	45	Yes	64.4	45	Yes	-1.2	Yes	5.0	No	47.6	45	Yes	46.4	45	Yes	-1.2	Yes	5.0	No
23	Residential	County	LT-5	58.1	65.2	45	Yes	64.0	45	Yes	-1.2	Yes	5.0	No	47.2	45	Yes	46.0	45	Yes	-1.2	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.7	45	Yes	65.4	45	Yes	-1.3	Yes	5.0	No	48.7	45	Yes	47.4	45	Yes	-1.3	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.7	45	Yes	65.5	45	Yes	-1.2	Yes	5.0	No	48.7	45	Yes	47.5	45	Yes	-1.2	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.8	45	Yes	65.6	45	Yes	-1.2	Yes	5.0	No	48.8	45	Yes	47.6	45	Yes	-1.2	Yes	5.0	No
27	Residential	County	LT-5	58.1	66.5	45	Yes	65.2	45	Yes	-1.3	Yes	5.0	No	48.5	45	Yes	47.2	45	Yes	-1.3	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.6	45	Yes	66.3	45	Yes	-1.3	Yes	5.0	No	49.6	45	Yes	48.3	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	64.4	45	Yes	63.8	45	Yes	-0.6	Yes	1.5	No	46.4	45	Yes	45.8	45	Yes	-0.6	Yes	1.5	No
30	Residential	County	LT-4	66.1	69.0	45	Yes	68.8	45	Yes	-0.2	Yes	1.5	No	51.0	45	Yes	50.8	45	Yes	-0.2	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.9	45	Yes	68.7	45	Yes	-0.2	Yes	1.5	No	50.9	45	Yes	50.7	45	Yes	-0.2	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.9	45	Yes	68.6	45	Yes	-0.3	Yes	1.5	No	50.9	45	Yes	50.6	45	Yes	-0.3	Yes	1.5	No
33	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
34	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
35	Residential	County	LT-4	66.1	66.5	45	Yes	66.0	45	Yes	-0.5	Yes	1.5	No	48.5	45	Yes	48.0	45	Yes	-0.5	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	69.1	-	No	68.8	-	No	-0.3	No	5.0	No	51.1	-	No	50.8	-	No	-0.3	No	5.0	No
37	Residential	County	LT-4	66.1	65.2	45	Yes	64.6	45	Yes	-0.6	Yes	1.5	No	47.2	45	Yes	46.6	45	Yes	-0.6	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.8	45	Yes	64.2	45	Yes	-0.6	Yes	1.5	No	46.8	45	Yes	46.2	45	Yes	-0.6	Yes	1.5	No
39	Residential	County	LT-4	66.1	67.2	45	Yes	66.8	45	Yes	-0.4	Yes	1.5	No	49.2	45	Yes	48.8	45	Yes	-0.4	Yes	1.5	No
40	Residential	County	LT-4	66.1	67.0	45	Yes	66.7	45	Yes	-0.3	Yes	1.5	No	49.0	45	Yes	48.7	45	Yes	-0.3	Yes	1.5	No
41	Residential	County	LT-4	66.1	62.1	45	Yes	61.7	45	Yes	-0.4	Yes	1.5	No	44.1	45	No	43.7	45	No	-0.4	No	1.5	No
42	Residential	County	LT-4	66.1	61.4	45	Yes	61.0	45	Yes	-0.4	Yes	1.5	No	43.4	45	No	43.0	45	No	-0.4	No	1.5	No
43	Residential	County	LT-4	66.1	60.8	45	Yes	60.4	45	Yes	-0.4	Yes	1.5	No	42.8	45	No	42.4	45	No	-0.4	No	1.5	No
44	Residential	County	LT-4	66.1	60.2	45	Yes	59.9	45	Yes	-0.3	Yes	1.5	No	42.2	45	No	41.9	45	No	-0.3	No	1.5	No
45	Residential	County	LT-4	66.1	60.9	45	Yes	60.5	45	Yes	-0.4	Yes	1.5	No	42.9	45	No	42.5	45	No	-0.4	No	1.5	No
46	Residential	County	LT-4	66.1	60.1	45	Yes	59.8	45	Yes	-0.3	Yes	1.5	No	42.1	45	No	41.8	45	No	-0.3	No	1.5	No
47	Residential	County	LT-4	66.1	59.4	45	Yes	59.2	45	Yes	-0.2	Yes	1.5	No	41.4	45	No	41.2	45	No	-0.2	No	1.5	No
48	Residential	County	LT-4	66.1	59.0	45	Yes	58.9	45	Yes	-0.1	Yes	1.5	No	41.0	45	No	40.9	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.8	45	Yes	57.9	45	Yes	0.1	Yes	1.5	No	39.8	45	No	39.9	45	No	0.1	No	1.5	No
50	Residential	County	LT-4	66.1	57.5	45	Yes	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45	No	39.8	45					

Mitigated (BAR-3) BIG Operational Interior Noise Impact Analysis - Interim Year 2033

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	66.7	45	Yes	65.2	45	Yes	-1.5	Yes	1.5	No	48.7	45	Yes	47.2	45	Yes	-1.5	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.9	45	Yes	64.4	45	Yes	-3.5	Yes	1.5	No	49.9	45	Yes	46.4	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	67.2	45	Yes	62.7	45	Yes	-4.5	Yes	1.5	No	49.2	45	Yes	44.7	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	67.9	45	Yes	63.0	45	Yes	-4.9	Yes	1.5	No	49.9	45	Yes	45.0	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	69.5	45	Yes	64.5	45	Yes	-5.0	Yes	1.5	No	51.5	45	Yes	46.5	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.8	45	Yes	65.7	45	Yes	-5.1	Yes	1.5	No	52.8	45	Yes	47.7	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.7	45	Yes	59.7	45	Yes	-1.0	Yes	5.0	No	42.7	45	No	41.7	45	No	-1.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	57.0	-	No	56.4	-	No	-0.6	No	5.0	No	39.0	-	No	38.4	-	No	-0.6	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	58.3	45	Yes	57.7	45	Yes	-0.6	Yes	5.0	No	40.3	45	No	39.7	45	No	-0.6	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	54.1	45	Yes	53.8	45	Yes	-0.3	Yes	5.0	No	36.1	45	No	35.8	45	No	-0.3	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	52.0	45	Yes	52.1	45	Yes	0.1	Yes	3.0	No	34.0	45	No	34.1	45	No	0.1	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.6	45	Yes	50.9	45	Yes	1.3	Yes	3.0	No	31.6	45	No	32.9	45	No	1.3	No	3.0	No
71	Residential	County	LT-2	77.2	63.1	45	Yes	58.3	45	Yes	-4.8	Yes	1.5	No	45.1	45	Yes	40.3	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	62.7	45	Yes	58.0	45	Yes	-4.7	Yes	1.5	No	44.7	45	No	40.0	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	62.0	45	Yes	57.5	45	Yes	-4.5	Yes	1.5	No	44.0	45	No	39.5	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	68.5	45	Yes	64.1	45	Yes	-4.4	Yes	1.5	No	50.5	45	Yes	46.1	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.6	45	Yes	65.4	45	Yes	-4.2	Yes	1.5	No	51.6	45	Yes	47.4	45	Yes	-4.2	Yes	1.5	No
76	Residential	County	LT-2	77.2	74.3	45	Yes	74.1	45	Yes	-0.2	Yes	1.5	No	56.3	45	Yes	56.1	45	Yes	-0.2	Yes	1.5	No
77	Residential	County	LT-2	77.2	59.7	45	Yes	57.4	45	Yes	-2.3	Yes	1.5	No	41.7	45	No	39.4	45	No	-2.3	No	1.5	No
78	Residential	County	LT-2	77.2	57.5	45	Yes	57.3	45	Yes	-0.2	Yes	1.5	No	39.5	45	No	39.3	45	No	-0.2	No	1.5	No
79	Residential	County	LT-2	77.2	62.7	45	Yes	62.7	45	Yes	0.0	Yes	1.5	No	44.7	45	No	44.7	45	No	0.0	No	1.5	No
80	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes	0.0	Yes	1.5	No
81	Residential	County	LT-2	77.2	59.2	45	Yes	59.2	45	Yes	0.0	Yes	1.5	No	41.2	45	No	41.2	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	62.4	45	Yes	62.4	45	Yes	0.0	Yes	1.5	No	44.4	45	No	44.4	45	No	0.0	No	1.5	No
83	Residential	City	LT-3	66.5	42.9	45	No	50.6	45	Yes	7.7	Yes	1.5	Yes	24.9	45	No	32.6	45	No	7.7	No	1.5	Yes
84	Residential	City	LT-3	66.5	41.8	45	No	50.1	45	Yes	8.3	Yes	1.5	Yes	23.8	45	No	32.1	45	No	8.3	No	1.5	Yes
85	Residential	City	LT-3	66.5	62.3	45	Yes	61.7	45	Yes	-0.6	Yes	1.5	No	44.3	45	No	43.7	45	No	-0.6	No	1.5	No
86	Residential	City	LT-3	66.5	42.3	45	No	49.5	45	Yes	7.2	Yes	1.5	Yes	24.3	45	No	31.5	45	No	7.2	No	1.5	Yes
87	Residential	City	LT-3	66.5	40.6	45	No	49.9	45	Yes	9.3	Yes	1.5	Yes	22.6	45	No	31.9	45	No	9.3	No	1.5	Yes
88	Residential	City	LT-3	66.5	41.1	45	No	50.3	45	Yes	9.2	Yes	1.5	Yes	23.1	45	No	32.3	45	No	9.2	No	1.5	Yes
89	Residential	City	LT-3	66.5	41.1	45	No	50.4	45	Yes	9.3	Yes	1.5	Yes	23.1	45	No	32.4	45	No	9.3	No	1.5	Yes
90	Residential	City	LT-3	66.5	40.7	45	No	50.5	45	Yes	9.8	Yes	1.5	Yes	22.7	45	No	32.5	45	No	9.8	No	1.5	Yes

Min -5.1
Max 9.8

Mitigated (BAR-3) BIG Operational Interior Noise Impact Analysis - Horizon Year 2048

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L ₉₀ , L ₅₀)	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn				Ldn			Ldn			Ldn				Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Ldn	Exceeds Standard?	Incremental Criteria
1	Residential	County	LT-3	66.5	56.0	45	Yes	58.1	45	Yes	2.1	Yes	1.5	Yes	38.0	45	No	40.1	45	No	2.1	No	1.5	Yes
2	Residential	County	LT-3	66.5	54.9	45	Yes	55.7	45	Yes	0.8	Yes	1.5	No	36.9	45	No	37.7	45	No	0.8	No	1.5	No
3	Residential	County	LT-3	66.5	56.1	45	Yes	56.0	45	Yes	-0.1	Yes	1.5	No	38.1	45	No	38.0	45	No	-0.1	No	1.5	No
4	Residential	City	LT-3	66.5	53.6	45	Yes	55.4	45	Yes	1.8	Yes	1.5	Yes	35.6	45	No	37.4	45	No	1.8	No	1.5	Yes
5	Residential	City	LT-3	66.5	55.3	45	Yes	55.0	45	Yes	-0.3	Yes	1.5	No	37.3	45	No	37.0	45	No	-0.3	No	1.5	No
6	Residential	City	LT-5	58.1	49.6	45	Yes	52.5	45	Yes	2.9	Yes	5.0	Yes	31.6	45	No	34.5	45	No	2.9	No	5.0	Yes
7	Residential	City	LT-5	58.1	58.7	45	Yes	58.0	45	Yes	-0.7	Yes	5.0	No	40.7	45	No	40.0	45	No	-0.7	No	5.0	No
8	Residential	County	LT-5	58.1	61.5	45	Yes	60.6	45	Yes	-0.9	Yes	5.0	No	43.5	45	No	42.6	45	No	-0.9	No	5.0	No
9	Residential	County	LT-5	58.1	62.9	45	Yes	62.0	45	Yes	-0.9	Yes	5.0	No	44.9	45	No	44.0	45	No	-0.9	No	5.0	No
10	Residential	County	LT-5	58.1	63.2	45	Yes	62.4	45	Yes	-0.8	Yes	5.0	No	45.2	45	Yes	44.4	45	No	-0.8	No	5.0	No
11	Residential	County	LT-5	58.1	63.5	45	Yes	62.7	45	Yes	-0.8	Yes	5.0	No	45.5	45	Yes	44.7	45	No	-0.8	No	5.0	No
12	Residential	County	LT-5	58.1	63.9	45	Yes	63.0	45	Yes	-0.9	Yes	5.0	No	45.9	45	Yes	45.0	45	No	-0.9	No	5.0	No
13	Residential	County	LT-5	58.1	64.3	45	Yes	63.4	45	Yes	-0.9	Yes	5.0	No	46.3	45	Yes	45.4	45	Yes	-0.9	Yes	5.0	No
14	Residential	County	LT-5	58.1	67.3	45	Yes	66.2	45	Yes	-1.1	Yes	5.0	No	49.3	45	Yes	48.2	45	Yes	-1.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	69.1	45	Yes	67.9	45	Yes	-1.2	Yes	5.0	No	51.1	45	Yes	49.9	45	Yes	-1.2	Yes	5.0	No
16	Residential	County	LT-5	58.1	67.0	45	Yes	65.7	45	Yes	-1.3	Yes	5.0	No	49.0	45	Yes	47.7	45	Yes	-1.3	Yes	5.0	No
17	Residential	County	LT-5	58.1	67.0	45	Yes	65.8	45	Yes	-1.2	Yes	5.0	No	49.0	45	Yes	47.8	45	Yes	-1.2	Yes	5.0	No
18	Residential	County	LT-5	58.1	65.1	45	Yes	64.0	45	Yes	-1.1	Yes	5.0	No	47.1	45	Yes	46.0	45	Yes	-1.1	Yes	5.0	No
19	Residential	County	LT-5	58.1	65.7	45	Yes	64.6	45	Yes	-1.1	Yes	5.0	No	47.7	45	Yes	46.6	45	Yes	-1.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	65.9	45	Yes	64.9	45	Yes	-1.0	Yes	5.0	No	47.9	45	Yes	46.9	45	Yes	-1.0	Yes	5.0	No
21	Residential	County	LT-5	58.1	66.8	45	Yes	65.8	45	Yes	-1.0	Yes	5.0	No	48.8	45	Yes	47.8	45	Yes	-1.0	Yes	5.0	No
22	Residential	County	LT-5	58.1	66.5	45	Yes	65.5	45	Yes	-1.0	Yes	5.0	No	48.5	45	Yes	47.5	45	Yes	-1.0	Yes	5.0	No
23	Residential	County	LT-5	58.1	66.1	45	Yes	65.1	45	Yes	-1.0	Yes	5.0	No	48.1	45	Yes	47.1	45	Yes	-1.0	Yes	5.0	No
24	Residential	County	LT-5	58.1	67.6	45	Yes	66.6	45	Yes	-1.0	Yes	5.0	No	49.6	45	Yes	48.6	45	Yes	-1.0	Yes	5.0	No
25	Residential	County	LT-5	58.1	67.7	45	Yes	66.6	45	Yes	-1.1	Yes	5.0	No	49.7	45	Yes	48.6	45	Yes	-1.1	Yes	5.0	No
26	Residential	County	LT-5	58.1	67.8	45	Yes	66.7	45	Yes	-1.1	Yes	5.0	No	49.8	45	Yes	48.7	45	Yes	-1.1	Yes	5.0	No
27	Residential	County	LT-5	58.1	67.5	45	Yes	66.4	45	Yes	-1.1	Yes	5.0	No	49.5	45	Yes	48.4	45	Yes	-1.1	Yes	5.0	No
28	Residential	County	LT-5	58.1	68.6	45	Yes	67.4	45	Yes	-1.2	Yes	5.0	No	50.6	45	Yes	49.4	45	Yes	-1.2	Yes	5.0	No
29	Residential	County	LT-4	66.1	65.4	45	Yes	64.9	45	Yes	-0.5	Yes	1.5	No	47.4	45	Yes	46.9	45	Yes	-0.5	Yes	1.5	No
30	Residential	County	LT-4	66.1	69.9	45	Yes	70.0	45	Yes	0.1	Yes	1.5	No	51.9	45	Yes	52.0	45	Yes	0.1	Yes	1.5	No
31	Residential	County	LT-4	66.1	69.9	45	Yes	69.8	45	Yes	-0.1	Yes	1.5	No	51.9	45	Yes	51.8	45	Yes	-0.1	Yes	1.5	No
32	Residential	County	LT-4	66.1	69.8	45	Yes	69.7	45	Yes	-0.1	Yes	1.5	No	51.8	45	Yes	51.7	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	67.3	45	Yes	67.0	45	Yes	-0.3	Yes	1.5	No	49.3	45	Yes	49.0	45	Yes	-0.3	Yes	1.5	No
34	Residential	County	LT-4	66.1	67.4	45	Yes	67.1	45	Yes	-0.3	Yes	1.5	No	49.4	45	Yes	49.1	45	Yes	-0.3	Yes	1.5	No
35	Residential	County	LT-4	66.1	67.5	45	Yes	67.2	45	Yes	-0.3	Yes	1.5	No	49.5	45	Yes	49.2	45	Yes	-0.3	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	70.1	-	No	70.0	-	No	-0.1	No	5.0	No	52.1	-	No	52.0	-	No	-0.1	No	5.0	No
37	Residential	County	LT-4	66.1	66.2	45	Yes	65.8	45	Yes	-0.4	Yes	1.5	No	48.2	45	Yes	47.8	45	Yes	-0.4	Yes	1.5	No
38	Residential	County	LT-4	66.1	65.7	45	Yes	65.3	45	Yes	-0.4	Yes	1.5	No	47.7	45	Yes	47.3	45	Yes	-0.4	Yes	1.5	No
39	Residential	County	LT-4	66.1	68.2	45	Yes	67.9	45	Yes	-0.3	Yes	1.5	No	50.2	45	Yes	49.9	45	Yes	-0.3	Yes	1.5	No
40	Residential	County	LT-4	66.1	67.9	45	Yes	67.8	45	Yes	-0.1	Yes	1.5	No	49.9	45	Yes	49.8	45	Yes	-0.1	Yes	1.5	No
41	Residential	County	LT-4	66.1	63.1	45	Yes	62.7	45	Yes	-0.4	Yes	1.5	No	45.1	45	Yes	44.7	45	No	-0.4	No	1.5	No
42	Residential	County	LT-4	66.1	62.4	45	Yes	62.1	45	Yes	-0.3	Yes	1.5	No	44.4	45	No	44.1	45	No	-0.3	No	1.5	No
43	Residential	County	LT-4	66.1	61.7	45	Yes	61.4	45	Yes	-0.3	Yes	1.5	No	43.7	45	No	43.4	45	No	-0.3	No	1.5	No
44	Residential	County	LT-4	66.1	61.2	45	Yes	60.9	45	Yes	-0.3	Yes	1.5	No	43.2	45	No	42.9	45	No	-0.3	No	1.5	No
45	Residential	County	LT-4	66.1	61.9	45	Yes	61.6	45	Yes	-0.3	Yes	1.5	No	43.9	45	No	43.6	45	No	-0.3	No	1.5	No
46	Residential	County	LT-4	66.1	61.1	45	Yes	60.8	45	Yes	-0.3	Yes	1.5	No	43.1	45	No	42.8	45	No	-0.3	No	1.5	No
47	Residential	County	LT-4	66.1	60.4	45	Yes	60.2	45	Yes	-0.2	Yes	1.5	No	42.4	45	No	42.2	45	No	-0.2	No	1.5	No
48	Residential	County	LT-4	66.1	60.0	45	Yes	59.9	45	Yes	-0.1	Yes	1.5	No	42.0	45	No	41.9	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	58.8	45	Yes	58.8	45	Yes	0.0	Yes	1.5	No	40.8	45	No	40.8	45	No	0.0	No	1.5	No
50	Residential	County	LT-4	66.1	58.5	45	Yes	58.6	45	Yes	0.1	Yes	1.5	No	40.5	45	No	40.6	45	No	0.1	No	1.5	No
51	Residential	County	LT-4	66.1	58.2	45	Yes	58.5	45	Yes	0.3	Yes	1.5	No	40.2	45	No	40.5	45	No	0.3	No	1.5	No
52	Residential	County	LT-1	61.2	52.2	45	Yes	50.5	45	Yes	-1.7	Yes	3.0	No	34.2	45	No	32.5	45	No	-1.7	No	3.0	No
53	Residential	County	LT-1	61.2	51.4	45	Yes	50.7	45	Yes	-0.7	Yes	3.0	No	33.4	45	No	32.7	45	No	-0.7	No	3.0	No
54	Residential	County	LT-2	77.2	63.3	45	Yes	62.4	45	Yes	-0.9	Yes	1.5	No	45.3	45	Yes	44.4	45	No	-0.9	No	1.5	No
55	Residential	County	LT-2	77.2	67.7	45	Yes	66.5	45	Yes	-1.2	Yes	1.5	No	49.7	45	Yes	48.5	45	Yes	-1.2	Yes	1.5	No
56	Residential	County	LT-2	77.2	68.9	45																		

Mitigated (BAR-3) BIG Operational Interior Noise Impact Analysis - Horizon Year 2048

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L ₉₀ , L ₅₀)	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn				Ldn			Ldn			Ldn						
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Ldn	Exceeds Standard?	Incremental Criteria
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	59.3	45	Yes	58.8	45	Yes	-0.5	Yes	5.0	No	41.3	45	No	40.8	45	No	-0.5	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	55.1	45	Yes	54.8	45	Yes	-0.3	Yes	5.0	No	37.1	45	No	36.8	45	No	-0.3	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	53.0	45	Yes	53.1	45	Yes	0.1	Yes	3.0	No	35.0	45	No	35.1	45	No	0.1	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	50.6	45	Yes	51.7	45	Yes	1.1	Yes	3.0	No	32.6	45	No	33.7	45	No	1.1	No	3.0	No
71	Residential	County	LT-2	77.2	64.0	45	Yes	59.3	45	Yes	-4.7	Yes	1.5	No	46.0	45	Yes	41.3	45	No	-4.7	No	1.5	No
72	Residential	County	LT-2	77.2	63.6	45	Yes	58.9	45	Yes	-4.7	Yes	1.5	No	45.6	45	Yes	40.9	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	63.0	45	Yes	58.4	45	Yes	-4.6	Yes	1.5	No	45.0	45	No	40.4	45	No	-4.6	No	1.5	No
74	Residential	County	LT-2	77.2	69.5	45	Yes	65.0	45	Yes	-4.5	Yes	1.5	No	51.5	45	Yes	47.0	45	Yes	-4.5	Yes	1.5	No
75	Residential	County	LT-2	77.2	70.6	45	Yes	66.3	45	Yes	-4.3	Yes	1.5	No	52.6	45	Yes	48.3	45	Yes	-4.3	Yes	1.5	No
76	Residential	County	LT-2	77.2	75.3	45	Yes	75.1	45	Yes	-0.2	Yes	1.5	No	57.3	45	Yes	57.1	45	Yes	-0.2	Yes	1.5	No
77	Residential	County	LT-2	77.2	60.7	45	Yes	58.3	45	Yes	-2.4	Yes	1.5	No	42.7	45	No	40.3	45	No	-2.4	No	1.5	No
78	Residential	County	LT-2	77.2	58.5	45	Yes	58.3	45	Yes	-0.2	Yes	1.5	No	40.5	45	No	40.3	45	No	-0.2	No	1.5	No
79	Residential	County	LT-2	77.2	63.6	45	Yes	63.6	45	Yes	0.0	Yes	1.5	No	45.6	45	Yes	45.6	45	Yes	0.0	Yes	1.5	No
80	Residential	County	LT-2	77.2	64.4	45	Yes	64.4	45	Yes	0.0	Yes	1.5	No	46.4	45	Yes	46.4	45	Yes	0.0	Yes	1.5	No
81	Residential	County	LT-2	77.2	60.2	45	Yes	60.2	45	Yes	0.0	Yes	1.5	No	42.2	45	No	42.2	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes	0.0	Yes	1.5	No
83	Residential	City	LT-3	66.5	43.8	45	No	50.7	45	Yes	6.9	Yes	1.5	Yes	25.8	45	No	32.7	45	No	6.9	No	1.5	Yes
84	Residential	City	LT-3	66.5	42.8	45	No	50.2	45	Yes	7.4	Yes	1.5	Yes	24.8	45	No	32.2	45	No	7.4	No	1.5	Yes
85	Residential	City	LT-3	66.5	63.3	45	Yes	62.8	45	Yes	-0.5	Yes	1.5	No	45.3	45	Yes	44.8	45	No	-0.5	No	1.5	No
86	Residential	City	LT-3	66.5	43.3	45	No	49.7	45	Yes	6.4	Yes	1.5	Yes	25.3	45	No	31.7	45	No	6.4	No	1.5	Yes
87	Residential	City	LT-3	66.5	41.5	45	No	50.0	45	Yes	8.5	Yes	1.5	Yes	23.5	45	No	32.0	45	No	8.5	No	1.5	Yes
88	Residential	City	LT-3	66.5	42.1	45	No	50.4	45	Yes	8.3	Yes	1.5	Yes	24.1	45	No	32.4	45	No	8.3	No	1.5	Yes
89	Residential	City	LT-3	66.5	42.1	45	No	50.5	45	Yes	8.4	Yes	1.5	Yes	24.1	45	No	32.5	45	No	8.4	No	1.5	Yes
90	Residential	City	LT-3	66.5	41.7	45	No	50.6	45	Yes	8.9	Yes	1.5	Yes	23.7	45	No	32.6	45	No	8.9	No	1.5	Yes

Mitigated SoundPLAN Modeling Results (BAR-3)

OPENING YEAR 2028								OPENING YEAR 2033								HORIZON YEAR 2048							
WITH PROJECT								WITH PROJECT								WITH PROJECT							
Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn
		Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP		
		dB(A)			dB(A)					dB(A)			dB(A)					dB(A)			dB(A)		
1	Residential	61.5	60.9	67.4	61.5	60.9	67.4	1	Residential	61.7	60.9	67.5	61.7	60.9	67.4	1	Residential	62.2	61.6	68.1	62.2	61.6	68.1
2	Residential	59.1	58.8	65.3	59.1	58.8	65.3	2	Residential	59.3	58.9	65.4	59.3	58.8	65.3	2	Residential	59.7	59.3	65.8	59.6	59.2	65.7
3	Residential	59.4	59.0	65.5	59.4	59.0	65.5	3	Residential	59.8	59.2	65.7	59.6	59.0	65.5	3	Residential	60.1	59.7	66.2	60.0	59.5	66.0
4	Residential	58.8	58.3	64.8	58.8	58.3	64.8	4	Residential	59.3	58.7	65.2	59.0	58.3	64.9	4	Residential	59.8	59.3	65.8	59.5	59.0	65.4
5	Residential	59.0	58.6	65.1	58.8	58.4	64.9	5	Residential	64.0	63.8	70.2	59.0	58.4	64.9	5	Residential	64.1	64.0	70.4	58.9	58.5	65.0
6	Residential	55.9	55.7	62.1	56.0	55.7	62.2	6	Residential	59.7	59.5	66.0	56.1	55.7	62.2	6	Residential	59.8	59.7	66.1	56.3	56.0	62.5
7	Residential	61.3	60.6	67.1	61.4	60.6	67.1	7	Residential	62.5	61.6	68.2	61.6	60.6	67.2	7	Residential	63.0	62.4	68.9	62.3	61.5	68.0
8	Residential	63.9	62.8	69.4	63.9	62.8	69.4	8	Residential	64.4	63.1	69.7	64.3	62.9	69.5	8	Residential	65.3	64.1	70.7	65.2	64.0	70.6
9	Residential	65.3	64.2	70.8	65.3	64.2	70.8	9	Residential	65.8	64.4	71.0	65.7	64.3	70.9	9	Residential	66.7	65.5	72.1	66.7	65.4	72.0
10	Residential	65.7	64.5	71.1	65.7	64.5	71.1	10	Residential	66.1	64.7	71.4	66.1	64.6	71.3	10	Residential	67.1	65.8	72.4	67.0	65.7	72.4
11	Residential	66.0	64.8	71.4	66.0	64.8	71.4	11	Residential	66.5	65.0	71.7	66.4	64.9	71.6	11	Residential	67.4	66.1	72.8	67.4	66.1	72.7
12	Residential	66.3	65.1	71.7	66.3	65.1	71.7	12	Residential	66.8	65.3	72.0	66.7	65.3	71.9	12	Residential	67.7	66.4	73.1	67.7	66.4	73.0
13	Residential	66.7	65.5	72.1	66.7	65.5	72.1	13	Residential	67.2	65.7	72.4	67.1	65.6	72.3	13	Residential	68.1	66.8	73.5	68.1	66.8	73.4
14	Residential	69.5	68.3	74.9	69.5	68.3	74.9	14	Residential	69.9	68.4	75.1	69.9	68.4	75.1	14	Residential	70.9	69.6	76.2	70.9	69.6	76.2
15	Residential	71.3	70.0	76.6	71.3	70.0	76.6	15	Residential	71.7	70.1	76.8	71.7	70.1	76.8	15	Residential	72.7	71.3	78.0	72.7	71.3	77.9
16	Residential	69.0	67.7	74.4	69.0	67.7	74.4	16	Residential	69.4	67.9	74.6	69.4	67.9	74.6	16	Residential	70.5	69.1	75.7	70.4	69.1	75.7
17	Residential	69.1	67.8	74.4	69.1	67.8	74.4	17	Residential	69.5	68.0	74.6	69.5	67.9	74.6	17	Residential	70.5	69.1	75.8	70.5	69.1	75.8
18	Residential	67.4	66.1	72.7	67.4	66.1	72.7	18	Residential	67.8	66.3	72.9	67.8	66.2	72.9	18	Residential	68.8	67.4	74.1	68.8	67.4	74.0
19	Residential	68.0	66.7	73.3	68.0	66.7	73.3	19	Residential	68.4	66.8	73.5	68.4	66.8	73.5	19	Residential	69.4	68.0	74.7	69.4	68.0	74.6
20	Residential	68.2	66.9	73.5	68.2	66.9	73.5	20	Residential	68.6	67.1	73.7	68.6	67.1	73.7	20	Residential	69.6	68.3	74.9	69.6	68.2	74.9
21	Residential	69.1	67.8	74.4	69.1	67.8	74.4	21	Residential	69.5	67.9	74.6	69.5	67.9	74.6	21	Residential	70.5	69.1	75.8	70.5	69.1	75.8
22	Residential	68.8	67.5	74.2	68.8	67.5	74.2	22	Residential	69.3	67.7	74.4	69.2	67.7	74.4	22	Residential	70.3	68.9	75.5	70.3	68.9	75.5
23	Residential	68.5	67.2	73.8	68.5	67.2	73.8	23	Residential	68.9	67.3	74.0	68.9	67.3	74.0	23	Residential	69.9	68.5	75.1	69.9	68.5	75.1
24	Residential	69.9	68.6	75.2	69.9	68.6	75.2	24	Residential	70.3	68.7	75.4	70.3	68.7	75.4	24	Residential	71.3	69.9	76.6	71.3	69.9	76.6
25	Residential	69.9	68.6	75.3	69.9	68.6	75.3	25	Residential	70.4	68.8	75.5	70.4	68.8	75.5	25	Residential	71.4	70.0	76.6	71.4	70.0	76.6
26	Residential	70.0	68.7	75.4	70.0	68.7	75.4	26	Residential	70.5	68.9	75.6	70.5	68.9	75.6	26	Residential	71.5	70.1	76.7	71.5	70.1	76.7
27	Residential	69.7	68.4	75.0	69.7	68.4	75.0	27	Residential	70.1	68.5	75.2	70.1	68.5	75.2	27	Residential	71.1	69.7	76.4	71.1	69.7	76.4
28	Residential	70.7	69.4	76.0	70.7	69.4	76.0	28	Residential	71.2	69.6	76.3	71.1	69.6	76.3	28	Residential	72.2	70.8	77.4	72.2	70.8	77.4
29	Residential	68.3	67.0	73.6	68.3	67.0	73.6	29	Residential	68.7	67.1	73.8	68.7	67.1	73.8	29	Residential	69.7	68.3	74.9	69.7	68.3	74.9
30	Residential	73.3	72.1	78.7	73.3	72.1	78.7	30	Residential	73.7	72.2	78.8	73.7	72.2	78.8	30	Residential	74.7	73.3	80.0	74.7	73.3	80.0
31	Residential	73.2	71.9	78.6	73.2	71.9	78.6	31	Residential	73.6	72.0	78.7	73.6	72.0	78.7	31	Residential	74.6	73.2	79.8	74.6	73.2	79.8
32	Residential	73.1	71.9	78.5	73.1	71.9	78.5	32	Residential	73.5	71.9	78.6	73.5	71.9	78.6	32	Residential	74.5	73.1	79.7	74.5	73.1	79.7
33	Residential	70.4	69.1	75.7	70.4	69.1	75.7	33	Residential	70.8	69.2	75.9	70.8	69.2	75.9	33	Residential	71.8	70.4	77.0	71.8	70.4	77.0
34	Residential	70.4	69.2	75.8	70.4	69.2	75.8	34	Residential	70.8	69.3	75.9	70.8	69.3	75.9	34	Residential	71.8	70.4	77.1	71.8	70.4	77.1
35	Residential	70.5	69.3	75.9	70.5	69.3	75.9	35	Residential	70.9	69.4	76.0	70.9	69.3	76.0	35	Residential	71.9	70.5	77.2	71.9	70.5	77.2
36	Residential	73.3	72.1	78.7	73.3	72.1	78.7	36	Residential	73.7	72.1	78.8	73.7	72.1	78.8	36	Residential	74.7	73.3	80.0	74.7	73.3	80.0
37	Park	69.1	67.9	74.5	69.1	67.9	74.5	37	Park	69.5	68.0	74.6	69.5	68.0	74.6	37	Park	70.5	69.1	75.8	70.5	69.1	75.8
38	Residential	68.7	67.4	74.1	68.7	67.4	74.1	38	Residential	69.1	67.5	74.2	69.1	67.5	74.2	38	Residential	70.1	68.7	75.3	70.1	68.7	75.3
39	Residential	71.3	70.1	76.7	71.3	70.1	76.7	39	Residential	71.7	70.1	76.8	71.7	70.1	76.8	39	Residential	72.7	71.3	77.9	72.7	71.3	77.9
40	Residential	71.2	69.9	76.6	71.2	69.9	76.6	40	Residential	71.6	70.0	76.7	71.6	70.0	76.7	40	Residential	72.6	71.2	77.8	72.6	71.2	77.8
41	Residential	66.1	64.9	71.5	66.1	64.9	71.5	41	Residential	66.5	65.0	71.7	66.5	65.0	71.7	41	Residential	67.5	66.1	72.8	67.4	66.1	72.7
42	Residential	65.4	64.3	70.9	65.4	64.3	70.9	42	Residential	65.9	64.4	71.1	65.8	64.4	71.0	42	Residential	66.8	65.5	72.1	66.8	65.5	72.1
43	Residential	64.8	63.6	70.2	64.8	63.6	70.2	43	Residential	65.2	63.8	70.4	65.1	63.7	70.4	43	Residential	66.1	64.8	71.5	66.1	64.8	71.4
44	Residential	64.3	63.2	69.7	64.3	63.2	69.7	44	Residential	64.7	63.3	70.0	64.6	63.2	69.9	44	Residential	65.6	64.3	70.9	65.5	64.3	70.9
45	Residential	64.9	63.8	70.4	64.9	63.8	70.4	45	Residential	65.4	63.9	70.6	65.3	63.9	70.5	45	Residential	66.3	65.0	71.6	66.3	65.0	71.6
46	Residential	64.2	63.0	69.6	64.2	63.0	69.6	46	Residential	64.6	63.2	69.8	64.5	63.1	69.8	46	Residential	65.5	64.2	70.9	65.5	64.2	70.8
47	Residential	63.5	62.5	69.0	63.5	62.5	69.0	47	Residential	64.0	62.6	69.3	63.9	62.6	69.2	47	Residential	64.8	63.6	70.2	64.8	63.6	70.2
48	Residential	63.3	62.2	68.8	63.3	62.2	68.8	48	Residential	63.7	62.4	69.0	63.6	62.3	68.9	48	Residential	64.5	63.4	70.0	64.5	63.3	69.9
49	Residential	62.2	61.2	67.8	62.2	61.2	67.8	49	Residential	62.6	61.4	68.0	62.5	61.3	67.9	49	Residential	63.4	62.3	68.9	63.4	62.2	68.8
50	Residential	62.0	61.1	67.7	62.0	61.1	67.7	50	Residential	62.4	61.3	67.9	62.3	61.2	67.8	50	Residential	63.2	62.2	68.7	63.1	62.1	68.6

Mitigated SoundPLAN Modeling Results (BAR-3)

OPENING YEAR 2028								OPENING YEAR 2033								HORIZON YEAR 2048							
WITH PROJECT								WITH PROJECT								WITH PROJECT							
Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn
		Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP		
		dB(A)			dB(A)					dB(A)			dB(A)					dB(A)			dB(A)		
51	Residential	61.9	61.1	67.6	61.9	61.1	67.6	51	Residential	62.3	61.3	67.8	62.2	61.1	67.7	51	Residential	63.0	62.1	68.6	63.0	61.9	68.5
52	Residential	54.0	53.7	60.1	54.0	53.7	60.1	52	Residential	54.1	53.7	60.2	54.1	53.7	60.2	52	Residential	54.4	54.0	60.5	54.4	54.0	60.5
53	Residential	54.2	54.0	60.4	54.2	54.0	60.4	53	Residential	54.3	54.0	60.4	54.3	54.0	60.4	53	Residential	54.6	54.3	60.7	54.6	54.3	60.7
54	Residential	65.6	64.4	71.0	65.6	64.4	71.0	54	Residential	66.0	64.5	71.1	66.0	64.5	71.1	54	Residential	67.0	65.9	72.4	67.0	65.9	72.4
55	Residential	69.7	68.5	75.1	69.7	68.5	75.1	55	Residential	70.1	68.6	75.2	70.1	68.6	75.2	55	Residential	71.1	69.9	76.5	71.1	69.9	76.5
56	Residential	68.8	67.5	74.1	68.8	67.5	74.1	56	Residential	69.2	67.7	74.4	69.2	67.7	74.4	56	Residential	70.1	68.8	75.5	70.1	68.8	75.5
57	Residential	67.0	65.7	72.4	67.0	65.7	72.4	57	Residential	67.4	66.0	72.7	67.4	66.0	72.7	57	Residential	68.4	66.9	73.6	68.4	66.9	73.6
58	Residential	67.4	66.1	72.7	67.4	66.1	72.7	58	Residential	67.7	66.4	73.0	67.7	66.4	73.0	58	Residential	68.7	67.3	73.9	68.7	67.3	73.9
59	Residential	66.3	64.9	71.6	66.3	64.9	71.6	59	Residential	66.6	65.3	71.9	66.6	65.3	71.9	59	Residential	67.6	66.1	72.8	67.6	66.1	72.8
60	Residential	64.5	63.2	69.8	64.5	63.2	69.8	60	Residential	64.9	63.5	70.1	64.9	63.5	70.1	60	Residential	65.9	64.4	71.0	65.9	64.4	71.0
61	Residential	68.9	67.6	74.2	68.9	67.6	74.2	61	Residential	69.2	67.9	74.5	69.2	67.9	74.5	61	Residential	70.2	68.8	75.4	70.2	68.8	75.4
62	Residential	70.1	68.7	75.4	70.1	68.7	75.4	62	Residential	70.4	69.1	75.7	70.4	69.1	75.7	62	Residential	71.4	69.9	76.6	71.4	69.9	76.6
63	Residential	64.5	63.2	69.8	64.5	63.2	69.8	63	Residential	64.8	63.5	70.1	64.8	63.5	70.1	63	Residential	65.8	64.4	71.0	65.8	64.4	71.0
64	Residential	66.3	65.0	71.6	66.3	65.0	71.6	64	Residential	66.6	65.3	71.9	66.6	65.3	71.9	64	Residential	67.6	66.2	72.8	67.6	66.2	72.8
65	Residential	64.2	62.9	69.5	64.2	62.9	69.5	65	Residential	64.6	63.1	69.8	64.5	63.0	69.7	65	Residential	65.6	64.2	70.8	65.5	64.2	70.8
66	School	60.8	59.6	66.2	60.8	59.6	66.2	66	School	61.3	59.9	66.5	61.2	59.8	66.4	66	School	62.2	60.9	67.5	62.1	60.8	67.4
67	Park	62.2	61.0	67.6	62.2	61.0	67.6	67	Park	62.6	61.1	67.8	62.6	61.1	67.7	67	Park	63.6	62.2	68.8	63.5	62.2	68.8
68	Church	58.2	57.1	63.7	58.2	57.1	63.7	68	Church	58.7	57.5	64.1	58.5	57.2	63.8	68	Church	59.5	58.4	65.0	59.4	58.2	64.8
69	Church	56.5	55.3	61.9	56.5	55.3	61.9	69	Church	56.9	55.6	62.2	56.8	55.5	62.1	69	Church	57.8	56.5	63.1	57.8	56.5	63.1
70	School	55.1	54.3	60.8	55.1	54.3	60.8	70	School	55.5	54.5	61.1	55.4	54.4	60.9	70	School	56.2	55.2	61.8	56.1	55.1	61.7
71	Church	62.7	61.4	68.0	62.7	61.4	68.0	71	Church	63.1	61.7	68.3	63.1	61.7	68.3	71	Church	64.1	62.6	69.3	64.1	62.6	69.3
72	Residential	62.4	61.1	67.7	62.4	61.1	67.7	72	Residential	62.7	61.4	68.0	62.7	61.4	68.0	72	Residential	63.7	62.2	68.9	63.7	62.2	68.9
73	Residential	61.9	60.6	67.2	61.9	60.6	67.2	73	Residential	62.2	60.9	67.5	62.2	60.9	67.5	73	Residential	63.2	61.8	68.4	63.2	61.8	68.4
74	Residential	68.5	67.1	73.8	68.5	67.1	73.8	74	Residential	68.8	67.5	74.1	68.8	67.5	74.1	74	Residential	69.8	68.3	75.0	69.8	68.3	75.0
75	Residential	69.8	68.5	75.1	69.8	68.5	75.1	75	Residential	70.1	68.8	75.4	70.1	68.8	75.4	75	Residential	71.1	69.6	76.3	71.1	69.6	76.3
76	Residential	78.9	77.5	84.1	78.9	77.5	84.1	76	Residential	78.9	77.5	84.1	78.9	77.5	84.1	76	Residential	79.9	78.4	85.1	79.9	78.4	85.1
77	Residential	62.0	60.6	67.3	62.0	60.6	67.3	77	Residential	62.1	60.7	67.4	62.1	60.7	67.4	77	Residential	63.1	61.7	68.3	63.1	61.7	68.3
78	Residential	62.1	60.7	67.3	62.1	60.7	67.3	78	Residential	62.1	60.7	67.3	62.1	60.7	67.3	78	Residential	63.1	61.7	68.3	63.1	61.6	68.3
79	Residential	67.4	66.0	72.7	67.4	66.0	72.7	79	Residential	67.4	66.0	72.7	67.4	66.0	72.7	79	Residential	68.5	67.0	73.6	68.5	67.0	73.6
80	Residential	68.2	66.8	73.4	68.2	66.8	73.4	80	Residential	68.2	66.8	73.4	68.2	66.8	73.4	80	Residential	69.2	67.7	74.4	69.2	67.7	74.4
81	Residential	64.0	62.6	69.2	64.0	62.6	69.2	81	Residential	64.0	62.6	69.2	64.0	62.6	69.2	81	Residential	65.0	63.6	70.2	65.0	63.6	70.2
82	Residential	67.2	65.8	72.4	67.2	65.8	72.4	82	Residential	67.2	65.8	72.4	67.2	65.8	72.4	82	Residential	68.3	66.8	73.4	68.3	66.8	73.4
83	Residential	54.3	54.2	60.6	54.3	54.1	60.6	83	Residential	59.8	59.7	66.2	54.3	54.1	60.6	83	Residential	59.8	59.8	66.2	54.4	54.3	60.7
84	Residential	53.9	53.8	60.2	53.8	53.6	60.1	84	Residential	59.8	59.8	66.2	53.8	53.6	60.1	84	Residential	59.8	59.8	66.2	53.9	53.8	60.2
85	Residential	66.2	64.9	71.5	66.2	64.9	71.5	85	Residential	66.6	65.0	71.7	66.6	65.0	71.7	85	Residential	67.6	66.2	72.8	67.6	66.2	72.8
86	Residential	53.3	53.1	59.5	53.3	53.1	59.5	86	Residential	55.4	55.2	61.7	53.3	53.1	59.5	86	Residential	55.5	55.3	61.8	53.5	53.2	59.7
87	Residential	54.1	53.3	59.9	54.1	53.3	59.9	87	Residential	58.2	58.0	64.4	54.1	53.3	59.9	87	Residential	58.3	58.0	64.5	54.2	53.5	60.0
88	Residential	54.3	53.8	60.3	54.3	53.8	60.3	88	Residential	59.3	59.1	65.5	54.3	53.8	60.3	88	Residential	59.3	59.1	65.6	54.4	53.9	60.4
89	Residential	54.3	53.9	60.4	54.3	53.9	60.4	89	Residential	59.8	59.7	66.1	54.4	53.9	60.4	89	Residential	59.8	59.7	66.1	54.5	54.0	60.5
90	Residential	54.4	54.0	60.5	54.4	54.0	60.5	90	Residential	61.6	61.5	67.9	54.4	54.0	60.5	90	Residential	61.6	61.5	67.9	54.5	54.1	60.6

Source: SoundPLAN Essential 5.1

SoundPLAN Modeling Results																																		
EXISTING					CONSTRUCTION YEAR 2026 - SOUTH MAINLINES										OPENING YEAR 2028																			
					NO PROJECT					WITH PROJECT					NO PROJECT					WITH PROJECT														
Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn							
Level w/o NP					Level w/o NP					Level w/o NP					Level w/o NP					Level w/o NP					Level w/o NP					Level w/ NP				
dB(A)					dB(A)					dB(A)					dB(A)					dB(A)					dB(A)					dB(A)				
1	Residential	59.2	57.8	64.5	1	Residential	59.3	57.8	64.5	1	Residential	58.1	56.6	63.3	1	Residential	59.5	58.1	64.7	1	Residential	61.5	60.9	67.4	59.6	59.2	65.7							
2	Residential	58.1	56.7	63.4	2	Residential	58.2	56.7	63.4	2	Residential	54.3	52.8	59.4	2	Residential	58.4	57.0	63.7	2	Residential	59.1	58.8	65.3	58.1	57.8	64.3							
3	Residential	59.3	57.9	64.6	3	Residential	59.4	57.9	64.6	3	Residential	54.6	53.1	59.8	3	Residential	59.6	58.2	64.8	3	Residential	59.4	59.0	65.5	58.0	57.7	64.1							
4	Residential	56.7	55.3	62.0	4	Residential	56.8	55.3	62.0	4	Residential	52.1	50.6	57.3	4	Residential	57.0	55.6	62.3	4	Residential	58.8	58.3	64.8	57.5	57.1	63.6							
5	Residential	58.4	57.1	63.7	5	Residential	58.6	57.1	63.7	5	Residential	51.2	49.7	56.3	5	Residential	58.7	57.4	64.0	5	Residential	59.0	58.6	65.1	56.6	56.3	62.8							
6	Residential	52.8	51.4	58.1	6	Residential	52.9	51.4	58.1	6	Residential	50.2	48.7	55.4	6	Residential	53.1	51.7	58.3	6	Residential	55.9	55.7	62.1	55.4	55.2	61.6							
7	Residential	61.9	60.5	67.2	7	Residential	62.0	60.5	67.2	7	Residential	60.0	58.5	65.2	7	Residential	62.2	60.8	67.4	7	Residential	61.3	60.6	67.1	61.3	60.5	67.1							
8	Residential	64.7	63.3	70.0	8	Residential	64.8	63.3	70.0	8	Residential	65.0	63.5	70.1	8	Residential	65.0	63.6	70.2	8	Residential	63.9	62.8	69.4	63.9	62.8	69.4							
9	Residential	66.1	64.7	71.3	9	Residential	66.2	64.7	71.4	9	Residential	66.3	64.8	71.5	9	Residential	66.3	65.0	71.6	9	Residential	65.3	64.2	70.8	65.3	64.2	70.8							
10	Residential	66.3	65.0	71.6	10	Residential	66.5	65.0	71.6	10	Residential	66.6	65.1	71.7	10	Residential	66.6	65.3	71.9	10	Residential	65.7	64.5	71.1	65.7	64.5	71.1							
11	Residential	66.7	65.3	71.9	11	Residential	66.8	65.3	72.0	11	Residential	66.9	65.4	72.0	11	Residential	66.9	65.6	72.2	11	Residential	66.0	64.8	71.4	66.0	64.8	71.4							
12	Residential	67.0	65.6	72.3	12	Residential	67.2	65.6	72.3	12	Residential	67.2	65.7	72.3	12	Residential	67.3	65.9	72.6	12	Residential	66.3	65.1	71.7	66.3	65.1	71.7							
13	Residential	67.4	66.1	72.7	13	Residential	67.6	66.1	72.7	13	Residential	67.6	66.1	72.7	13	Residential	67.7	66.4	73.0	13	Residential	66.7	65.5	72.1	66.7	65.5	72.1							
14	Residential	70.4	69.1	75.7	14	Residential	70.6	69.1	75.7	14	Residential	70.6	69.1	75.8	14	Residential	70.7	69.4	76.0	14	Residential	69.5	68.3	74.9	69.5	68.3	74.9							
15	Residential	72.2	70.9	77.5	15	Residential	72.4	70.9	77.5	15	Residential	72.4	70.9	77.5	15	Residential	72.5	71.2	77.8	15	Residential	71.3	70.0	76.6	71.3	70.0	76.6							
16	Residential	70.1	68.7	75.4	16	Residential	70.3	68.7	75.4	16	Residential	70.3	68.7	75.4	16	Residential	70.4	69.0	75.7	16	Residential	69.0	67.7	74.4	69.0	67.7	74.4							
17	Residential	70.2	68.8	75.4	17	Residential	70.3	68.8	75.5	17	Residential	70.3	68.8	75.5	17	Residential	70.4	69.1	75.7	17	Residential	69.1	67.8	74.4	69.1	67.8	74.4							
18	Residential	68.3	66.9	73.5	18	Residential	68.4	66.9	73.6	18	Residential	68.4	66.9	73.6	18	Residential	68.5	67.2	73.8	18	Residential	67.4	66.1	72.7	67.4	66.1	72.7							
19	Residential	68.9	67.5	74.1	19	Residential	69.0	67.5	74.1	19	Residential	69.0	67.5	74.2	19	Residential	69.1	67.8	74.4	19	Residential	68.0	66.7	73.3	68.0	66.7	73.3							
20	Residential	69.1	67.7	74.3	20	Residential	69.2	67.7	74.4	20	Residential	69.2	67.7	74.4	20	Residential	69.3	68.0	74.6	20	Residential	68.2	66.9	73.5	68.2	66.9	73.5							
21	Residential	70.0	68.6	75.2	21	Residential	70.1	68.6	75.2	21	Residential	70.1	68.6	75.3	21	Residential	70.2	68.9	75.5	21	Residential	69.1	67.8	74.4	69.1	67.8	74.4							
22	Residential	69.7	68.3	75.0	22	Residential	69.8	68.3	75.0	22	Residential	69.9	68.4	75.0	22	Residential	70.0	68.6	75.3	22	Residential	68.8	67.5	74.2	68.8	67.5	74.2							
23	Residential	69.3	67.9	74.6	23	Residential	69.4	67.9	74.6	23	Residential	69.5	68.0	74.6	23	Residential	69.6	68.2	74.9	23	Residential	68.5	67.2	73.8	68.5	67.2	73.8							
24	Residential	70.8	69.4	76.1	24	Residential	70.9	69.4	76.1	24	Residential	71.0	69.5	76.1	24	Residential	71.1	69.7	76.4	24	Residential	69.9	68.6	75.2	69.9	68.6	75.2							
25	Residential	70.9	69.5	76.1	25	Residential	71.0	69.5	76.2	25	Residential	71.0	69.5	76.2	25	Residential	71.1	69.8	76.4	25	Residential	69.9	68.6	75.3	69.9	68.6	75.3							
26	Residential	71.0	69.6	76.2	26	Residential	71.1	69.6	76.3	26	Residential	71.2	69.7	76.3	26	Residential	71.2	69.9	76.5	26	Residential	70.0	68.7	75.4	70.0	68.7	75.4							
27	Residential	70.6	69.2	75.9	27	Residential	70.8	69.2	75.9	27	Residential	70.8	69.3	76.0	27	Residential	70.9	69.5	76.2	27	Residential	69.7	68.4	75.0	69.7	68.4	75.0							
28	Residential	71.8	70.4	77.0	28	Residential	71.9	70.4	77.0	28	Residential	72.0	70.5	77.1	28	Residential	72.0	70.7	77.3	28	Residential	70.7	69.4	76.0	70.7	69.4	76.0							
29	Residential	68.5	67.2	73.8	29	Residential	68.7	67.2	73.8	29	Residential	68.6	67.1	73.8	29	Residential	68.8	67.4	74.1	29	Residential	68.3	67.0	73.6	68.3	67.0	73.6							
30	Residential	73.1	71.7	78.4	30	Residential	73.2	71.7	78.4	30	Residential	73.2	71.7	78.3	30	Residential	73.4	72.0	78.7	30	Residential	73.3	72.1	78.7	73.3	72.1	78.7							
31	Residential	73.0	71.7	78.3	31	Residential	73.2	71.7	78.3	31	Residential	73.1	71.6	78.2	31	Residential	73.3	72.0	78.6	31	Residential	73.2	71.9	78.6	73.2	71.9	78.6							
32	Residential	73.0	71.6	78.3	32	Residential	73.1	71.6	78.3	32	Residential	73.0	71.5	78.2	32	Residential	73.3	71.9	78.6	32	Residential	73.1	71.9	78.5	73.1	71.9	78.5							
33	Residential	70.5	69.1	75.8	33	Residential	70.6	69.1	75.8	33	Residential	70.6	69.1	75.7	33	Residential	70.8	69.4	76.1	33	Residential	70.4	69.1	75.7	70.4	69.1	75.7							
34	Residential	70.6	69.2	75.8	34	Residential	70.7	69.2	75.9	34	Residential	70.6	69.1	75.8	34	Residential	70.8	69.5	76.1	34	Residential	70.4	69.2	75.8	70.4	69.2	75.8							
35	Residential	70.7	69.3	75.9	35	Residential	70.																											

SoundPLAN Modeling Results																											
EXISTING					CONSTRUCTION YEAR 2026 - SOUTH MAINLINES										OPENING YEAR 2028												
					NO PROJECT					WITH PROJECT					NO PROJECT					WITH PROJECT							
					Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn
							Level w/o NP					Level w/o NP					Level w/o NP					Level w/o NP			Level w/o NP		
dB(A)					dB(A)					dB(A)					dB(A)					dB(A)							
54	Residential	66.5	65.1	71.8	54	Residential	66.6	65.1	71.8	54	Residential	67.8	66.3	73.0	54	Residential	66.8	65.4	72.1	54	Residential	65.6	64.4	71.0	65.6	64.4	71.0
55	Residential	70.8	69.5	76.1	55	Residential	71.0	69.5	76.1	55	Residential	72.2	70.7	77.4	55	Residential	71.1	69.8	76.4	55	Residential	69.7	68.5	75.1	69.7	68.5	75.1
56	Residential	72.0	70.7	77.3	56	Residential	72.2	70.7	77.3	56	Residential	72.9	71.4	78.0	56	Residential	72.3	71.0	77.6	56	Residential	68.8	67.5	74.1	68.8	67.5	74.1
57	Residential	71.3	70.0	76.6	57	Residential	71.5	70.0	76.6	57	Residential	71.8	70.3	76.9	57	Residential	71.6	70.3	76.9	57	Residential	67.0	65.7	72.4	67.0	65.7	72.4
58	Residential	72.0	70.7	77.3	58	Residential	72.2	70.7	77.3	58	Residential	72.3	70.8	77.4	58	Residential	72.3	71.0	77.6	58	Residential	67.4	66.1	72.7	67.4	66.1	72.7
59	Residential	71.0	69.6	76.2	59	Residential	71.1	69.6	76.3	59	Residential	71.1	69.6	76.2	59	Residential	71.2	69.9	76.5	59	Residential	66.3	64.9	71.6	66.3	64.9	71.6
60	Residential	69.2	67.8	74.4	60	Residential	69.3	67.8	74.4	60	Residential	69.2	67.7	74.4	60	Residential	69.4	68.1	74.7	60	Residential	64.5	63.2	69.8	64.5	63.2	69.8
61	Residential	73.6	72.3	78.9	61	Residential	73.8	72.3	78.9	61	Residential	73.8	72.2	78.9	61	Residential	73.9	72.6	79.2	61	Residential	68.9	67.6	74.2	68.9	67.6	74.2
62	Residential	74.9	73.5	80.2	62	Residential	75.0	73.5	80.2	62	Residential	75.0	73.5	80.2	62	Residential	75.2	73.8	80.5	62	Residential	70.1	68.7	75.4	70.1	68.7	75.4
63	Residential	69.1	67.7	74.4	63	Residential	69.2	67.7	74.4	63	Residential	69.2	67.7	74.4	63	Residential	69.4	68.0	74.7	63	Residential	64.5	63.2	69.8	64.5	63.2	69.8
64	Residential	71.0	69.6	76.2	64	Residential	71.1	69.6	76.3	64	Residential	71.1	69.6	76.3	64	Residential	71.2	69.9	76.5	64	Residential	66.3	65.0	71.6	66.3	65.0	71.6
65	Residential	64.8	63.4	70.1	65	Residential	64.9	63.4	70.1	65	Residential	64.9	63.4	70.1	65	Residential	65.1	63.7	70.4	65	Residential	64.2	62.9	69.5	64.1	62.9	69.5
66	School	61.2	59.8	66.4	66	School	61.3	59.8	66.5	66	School	61.3	59.8	66.5	66	School	61.4	60.1	66.7	66	School	60.8	59.6	66.2	60.8	59.6	66.2
67	Park	62.5	61.1	67.7	67	Park	62.6	61.1	67.7	67	Park	62.6	61.1	67.8	67	Park	62.7	61.4	68.0	67	Park	62.2	61.0	67.6	62.2	61.0	67.6
68	Church	58.2	56.8	63.5	68	Church	58.4	56.8	63.5	68	Church	58.4	56.9	63.5	68	Church	58.5	57.1	63.8	68	Church	58.2	57.1	63.7	58.2	57.1	63.7
69	Church	56.1	54.8	61.4	69	Church	56.3	54.8	61.4	69	Church	56.3	54.8	61.4	69	Church	56.4	55.1	61.7	69	Church	56.5	55.3	61.9	56.5	55.3	61.9
70	School	53.8	52.4	59.0	70	School	53.9	52.4	59.1	70	School	54.0	52.5	59.2	70	School	54.0	52.7	59.3	70	School	55.1	54.3	60.8	55.1	54.3	60.8
71	Church	67.2	65.8	72.5	71	Church	67.3	65.8	72.5	71	Church	67.3	65.8	72.5	71	Church	67.5	66.1	72.8	71	Church	62.7	61.4	68.0	62.7	61.4	68.0
72	Residential	66.8	65.4	72.1	72	Residential	66.9	65.4	72.1	72	Residential	66.9	65.4	72.1	72	Residential	67.1	65.7	72.4	72	Residential	62.4	61.1	67.7	62.4	61.1	67.7
73	Residential	66.2	64.8	71.5	73	Residential	66.3	64.8	71.5	73	Residential	66.3	64.8	71.5	73	Residential	66.5	65.1	71.7	73	Residential	61.9	60.6	67.2	61.9	60.6	67.2
74	Residential	72.7	71.3	77.9	74	Residential	72.8	71.3	78.0	74	Residential	72.8	71.3	78.0	74	Residential	72.9	71.6	78.2	74	Residential	68.5	67.1	73.8	68.5	67.1	73.8
75	Residential	73.8	72.4	79.0	75	Residential	73.9	72.4	79.1	75	Residential	73.9	72.4	79.1	75	Residential	74.0	72.7	79.3	75	Residential	69.8	68.5	75.1	69.8	68.5	75.1
76	Residential	78.5	77.1	83.7	76	Residential	78.6	77.1	83.7	76	Residential	78.6	77.1	83.7	76	Residential	78.7	77.4	84.0	76	Residential	78.9	77.5	84.1	78.9	77.5	84.1
77	Residential	63.8	62.4	69.1	77	Residential	64.0	62.4	69.1	77	Residential	64.0	62.4	69.1	77	Residential	64.1	62.7	69.4	77	Residential	62.0	60.6	67.3	62.0	60.6	67.3
78	Residential	61.6	60.3	66.9	78	Residential	61.8	60.3	66.9	78	Residential	61.8	60.3	66.9	78	Residential	61.9	60.6	67.2	78	Residential	62.1	60.7	67.3	62.1	60.7	67.3
79	Residential	66.8	65.4	72.1	79	Residential	66.9	65.4	72.1	79	Residential	66.9	65.4	72.1	79	Residential	67.1	65.7	72.4	79	Residential	67.4	66.0	72.7	67.4	66.0	72.6
80	Residential	67.6	66.2	72.8	80	Residential	67.7	66.2	72.9	80	Residential	67.7	66.2	72.9	80	Residential	67.8	66.5	73.1	80	Residential	68.2	66.8	73.4	68.2	66.8	73.4
81	Residential	63.4	62.0	68.6	81	Residential	63.5	62.0	68.7	81	Residential	63.5	62.0	68.7	81	Residential	63.6	62.3	68.9	81	Residential	64.0	62.6	69.2	64.0	62.6	69.2
82	Residential	66.5	65.2	71.8	82	Residential	66.7	65.2	71.8	82	Residential	66.7	65.2	71.8	82	Residential	66.8	65.5	72.1	82	Residential	67.2	65.8	72.4	67.2	65.8	72.4
83	Residential	47.0	45.6	52.3	83	Residential	47.1	45.6	52.3	83	Residential	44.4	42.9	49.5	83	Residential	47.3	45.9	52.6	83	Residential	54.3	54.2	60.6	54.7	54.6	61.0
84	Residential	46.0	44.6	51.2	84	Residential	46.1	44.6	51.2	84	Residential	43.5	42.0	48.6	84	Residential	46.2	44.9	51.5	84	Residential	53.9	53.8	60.2	54.3	54.2	60.6
85	Residential	66.5	65.1	71.7	85	Residential	66.6	65.1	71.7	85	Residential	66.6	65.1	71.7	85	Residential	66.7	65.4	72.0	85	Residential	66.2	64.9	71.5	66.2	64.9	71.5
86	Residential	46.5	45.1	51.7	86	Residential	46.6	45.1	51.8	86	Residential	42.1	40.6	47.2	86	Residential	46.7	45.4	52.0	86	Residential	53.3	53.1	59.5	53.4	53.2	59.6
87	Residential	44.7	43.3	50.0	87	Residential	44.8	43.3	50.0	87	Residential	41.6	40.1	46.7	87	Residential	45.0	43.6	50.3	87	Residential	54.1	53.3	59.9	54.1	53.4	59.9
88	Residential	45.3	43.9	50.5	88	Residential	45.4	43.9	50.5	88	Residential	42.2	40.7	47.4	88	Residential	45.5	44.2	50.8	88	Residential	54.3	53.8	60.3	54.4	53.9	60.3
89	Residential	45.3	43.9	50.6	89	Residential	45.4	43.9	50.6	89	Residential	42.3	40.8	47.5	89	Residential	45.6	44.2	50.9	89	Residential	54.3	53.9	60.4	54.4	54.0	60.5
90	Residential	44.8	43.5	50.1	90	Residential	45.0	43.5	50.1	90	Residential	42.0	40.5	47.2	90	Residential	45.1	43.8	50.4	90	Residential	54.4	54.0	60.5	54.4	54.1	60.6

Source: SoundPLAN Essential 5.1

SoundPLAN Modeling Results																														
OPENING YEAR 2033													HORIZON YEAR 2048													GENERATORS				
NO PROJECT					WITH PROJECT								NO PROJECT					WITH PROJECT												
Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn					Receiver
		Level w/o NP					Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP				
		dB(A)					dB(A)			dB(A)					dB(A)			dB(A)					dB(A)			dB(A)				
1	Residential	59.8	58.4	65.0	1	Residential	61.7	60.9	67.4	61.7	60.9	67.4	1	Residential	60.9	59.4	66.0	1	Residential	62.2	61.6	68.1	58.1	57.7	64.2	1	Residential	39.1	39.1	
2	Residential	58.7	57.3	64.0	2	Residential	59.3	58.8	65.3	59.3	58.8	65.3	2	Residential	59.8	58.3	64.9	2	Residential	59.6	59.2	65.7	57.7	57.4	63.9	2	Residential	38.1	38.1	
3	Residential	59.9	58.5	65.1	3	Residential	59.6	59.0	65.5	59.6	59.0	65.5	3	Residential	61.0	59.5	66.1	3	Residential	60.0	59.5	66.0	57.2	56.9	63.3	3	Residential	38.1	38.1	
4	Residential	57.3	55.9	62.6	4	Residential	59.0	58.3	64.9	59.0	58.3	64.9	4	Residential	58.4	56.9	63.6	4	Residential	59.5	58.9	65.4	57.0	56.6	63.0	4	Residential	39.0	39.0	
5	Residential	59.1	57.7	64.3	5	Residential	59.1	58.6	65.1	59.0	58.4	64.9	5	Residential	60.1	58.6	65.3	5	Residential	59.1	58.7	65.2	56.4	56.1	62.6	5	Residential	51.9	44.5	
6	Residential	53.4	52.0	58.6	6	Residential	56.0	55.7	62.1	56.1	55.7	62.2	6	Residential	54.5	53.0	59.6	6	Residential	56.3	56.0	62.4	55.1	54.8	61.3	6	Residential	47.1	42.7	
7	Residential	62.5	61.1	67.7	7	Residential	61.6	60.6	67.2	61.6	60.6	67.2	7	Residential	63.6	62.1	68.7	7	Residential	62.3	61.5	68.0	62.3	61.5	68.0	7	Residential	45.6	42.7	
8	Residential	65.3	63.9	70.5	8	Residential	64.3	62.9	69.5	64.3	62.9	69.5	8	Residential	66.4	64.9	71.5	8	Residential	65.2	64.0	70.6	65.2	64.0	70.6	8	Residential	42.3	41.0	
9	Residential	66.7	65.3	71.9	9	Residential	65.7	64.3	70.9	65.7	64.3	70.9	9	Residential	67.7	66.2	72.9	9	Residential	66.7	65.4	72.0	66.7	65.4	72.0	9	Residential	42.0	40.9	
10	Residential	67.0	65.6	72.2	10	Residential	66.1	64.6	71.3	66.1	64.6	71.3	10	Residential	68.0	66.5	73.2	10	Residential	67.0	65.7	72.4	67.0	65.7	72.4	10	Residential	41.8	40.7	
11	Residential	67.3	65.9	72.5	11	Residential	66.4	64.9	71.6	66.4	64.9	71.6	11	Residential	68.3	66.9	73.5	11	Residential	67.4	66.1	72.7	67.4	66.1	72.7	11	Residential	41.5	40.5	
12	Residential	67.6	66.2	72.9	12	Residential	66.7	65.3	71.9	66.7	65.3	71.9	12	Residential	68.7	67.2	73.9	12	Residential	67.7	66.4	73.0	67.7	66.4	73.0	12	Residential	41.3	40.3	
13	Residential	68.1	66.6	73.3	13	Residential	67.1	65.6	72.3	67.1	65.6	72.3	13	Residential	69.1	67.6	74.3	13	Residential	68.1	66.8	73.4	68.1	66.8	73.4	13	Residential	41.1	40.1	
14	Residential	71.1	69.7	76.3	14	Residential	69.9	68.4	75.1	69.9	68.4	75.1	14	Residential	72.1	70.6	77.3	14	Residential	70.9	69.6	76.2	70.9	69.6	76.2	14	Residential	41.8	40.8	
15	Residential	72.9	71.4	78.1	15	Residential	71.7	70.1	76.8	71.7	70.1	76.8	15	Residential	73.9	72.4	79.1	15	Residential	72.7	71.3	77.9	72.7	71.3	77.9	15	Residential	40.5	39.7	
16	Residential	70.7	69.3	76.0	16	Residential	69.4	67.9	74.6	69.4	67.9	74.6	16	Residential	71.8	70.3	77.0	16	Residential	70.4	69.1	75.7	70.4	69.1	75.7	16	Residential	38.1	37.4	
17	Residential	70.8	69.4	76.0	17	Residential	69.5	67.9	74.6	69.5	67.9	74.6	17	Residential	71.8	70.4	77.0	17	Residential	70.5	69.1	75.8	70.5	69.1	75.8	17	Residential	37.9	37.2	
18	Residential	68.9	67.5	74.1	18	Residential	67.8	66.2	72.9	67.8	66.2	72.9	18	Residential	69.9	68.5	75.1	18	Residential	68.8	67.4	74.0	68.8	67.4	74.0	18	Residential	37.4	36.7	
19	Residential	69.5	68.1	74.7	19	Residential	68.4	66.8	73.5	68.4	66.8	73.5	19	Residential	70.5	69.0	75.7	19	Residential	69.4	68.0	74.6	69.4	68.0	74.6	19	Residential	36.8	36.1	
20	Residential	69.7	68.3	74.9	20	Residential	68.6	67.1	73.7	68.6	67.1	73.7	20	Residential	70.7	69.2	75.9	20	Residential	69.6	68.2	74.9	69.6	68.2	74.9	20	Residential	36.5	35.8	
21	Residential	70.6	69.2	75.8	21	Residential	69.5	67.9	74.6	69.5	67.9	74.6	21	Residential	71.6	70.1	76.8	21	Residential	70.5	69.1	75.8	70.5	69.1	75.8	21	Residential	36.4	35.7	
22	Residential	70.3	68.9	75.6	22	Residential	69.2	67.7	74.4	69.2	67.7	74.4	22	Residential	71.4	69.9	76.5	22	Residential	70.3	68.9	75.5	70.3	68.9	75.5	22	Residential	36.2	35.5	
23	Residential	69.9	68.5	75.2	23	Residential	68.9	67.3	74.0	68.9	67.3	74.0	23	Residential	71.0	69.5	76.1	23	Residential	69.9	68.5	75.1	69.9	68.5	75.1	23	Residential	35.8	35.2	
24	Residential	71.4	70.0	76.7	24	Residential	70.3	68.7	75.4	70.3	68.7	75.4	24	Residential	72.5	71.0	77.6	24	Residential	71.3	69.9	76.6	71.3	69.9	76.6	24	Residential	35.2	34.6	
25	Residential	71.5	70.1	76.7	25	Residential	70.4	68.8	75.5	70.4	68.8	75.5	25	Residential	72.5	71.0	77.7	25	Residential	71.4	70.0	76.6	71.4	70.0	76.6	25	Residential	35.0	34.4	
26	Residential	71.6	70.2	76.8	26	Residential	70.5	68.9	75.6	70.5	68.9	75.6	26	Residential	72.7	71.2	77.8	26	Residential	71.5	70.1	76.7	71.5	70.1	76.7	26	Residential	34.8	34.2	
27	Residential	71.2	69.8	76.5	27	Residential	70.1	68.5	75.2	70.1	68.5	75.2	27	Residential	72.3	70.8	77.5	27	Residential	71.1	69.7	76.4	71.1	69.7	76.4	27	Residential	34.5	33.9	
28	Residential	72.4	71.0	77.6	28	Residential	71.1	69.6	76.3	71.1	69.6	76.3	28	Residential	73.4	71.9	78.6	28	Residential	72.2	70.8	77.4	72.2	70.8	77.4	28	Residential	34.1	33.5	
29	Residential	69.2	67.7	74.4	29	Residential	68.7	67.1	73.8	68.7	67.1	73.8	29	Residential	70.2	68.7	75.4	29	Residential	69.7	68.3	74.9	69.7	68.3	74.9	29	Residential	33.5	33.0	
30	Residential	73.7	72.3	79.0	30	Residential	73.7	72.2	78.8	73.7	72.2	78.8	30	Residential	74.8	73.3	79.9	30	Residential	74.7	73.3	80.0	74.7	73.3	80.0	30	Residential	33.8	33.3	
31	Residential	73.7	72.2	78.9	31	Residential	73.6	72.0	78.7	73.6	72.0	78.7	31	Residential	74.7	73.2	79.9	31	Residential	74.6	73.2	79.8	74.6	73.2	79.8	31	Residential	34.1	33.6	
32	Residential	73.6	72.2	78.9	32	Residential	73.5	71.9	78.6	73.5	71.9	78.6	32	Residential	74.7	73.2	79.8	32	Residential	74.5	73.1</									

OPENING YEAR 2033												HORIZON YEAR 2048												GENERATORS					
NO PROJECT					WITH PROJECT							NO PROJECT					WITH PROJECT												
Receiver	Land Use	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Receiver	Land Use	Day	Night	Ldn	Day	Night	Ldn	Day	Night	Ldn					Receiver	Land Use
		Level w/o NP					Level w/o NP			Level w/ NP					Level w/o NP			Level w/ NP			Level w/o NP			Level w/ NP					
		dB(A)					dB(A)			dB(A)					dB(A)			dB(A)			dB(A)								
57	Residential	72.0	70.5	77.2	57	Residential	67.4	66.0	72.7	67.4	66.0	72.7	57	Residential	73.0	71.5	78.2	57	Residential	68.4	66.9	73.6	68.4	66.9	73.6	57	Residential	28.8	28.8
58	Residential	72.7	71.2	77.9	58	Residential	67.7	66.4	73.0	67.7	66.4	73.0	58	Residential	73.7	72.2	78.9	58	Residential	68.7	67.3	73.9	68.7	67.3	73.9	58	Residential	28.3	28.3
59	Residential	71.6	70.2	76.8	59	Residential	66.6	65.3	71.9	66.6	65.3	71.9	59	Residential	72.7	71.2	77.8	59	Residential	67.6	66.1	72.8	67.6	66.1	72.8	59	Residential	27.3	27.3
60	Residential	69.8	68.4	75.0	60	Residential	64.9	63.5	70.1	64.9	63.5	70.1	60	Residential	70.8	69.3	76.0	60	Residential	65.9	64.4	71.0	65.9	64.4	71.0	60	Residential	26.8	26.8
61	Residential	74.3	72.8	79.5	61	Residential	69.2	67.9	74.5	69.2	67.9	74.5	61	Residential	75.3	73.8	80.5	61	Residential	70.2	68.8	75.4	70.2	68.8	75.4	61	Residential	25.8	25.8
62	Residential	75.5	74.1	80.8	62	Residential	70.4	69.1	75.7	70.4	69.1	75.7	62	Residential	76.6	75.1	81.7	62	Residential	71.4	69.9	76.6	71.4	69.9	76.6	62	Residential	16.3	16.3
63	Residential	69.7	68.3	75.0	63	Residential	64.8	63.5	70.1	64.8	63.5	70.1	63	Residential	70.8	69.3	75.9	63	Residential	65.8	64.4	71.0	65.8	64.4	71.0	63	Residential	15.1	15.1
64	Residential	71.6	70.2	76.8	64	Residential	66.6	65.3	71.9	66.6	65.3	71.9	64	Residential	72.6	71.2	77.8	64	Residential	67.6	66.2	72.8	67.6	66.2	72.8	64	Residential	14.9	14.9
65	Residential	65.4	64.0	70.7	65	Residential	64.5	63.0	69.7	64.5	63.0	69.7	65	Residential	66.5	65.0	71.6	65	Residential	65.5	64.2	70.8	65.5	64.2	70.8	65	Residential	37.5	36.7
66	School	61.8	60.4	67.0	66	School	61.2	59.8	66.4	61.2	59.8	66.4	66	School	62.8	61.3	68.0	66	School	62.1	60.8	67.4	62.1	60.8	67.4	66	School	37.3	36.3
67	Park	63.1	61.7	68.3	67	Park	62.6	61.1	67.7	62.6	61.1	67.7	67	Park	64.1	62.6	69.3	67	Park	63.5	62.2	68.8	63.5	62.2	68.8	67	Park	34.3	33.8
68	Church	58.8	57.4	64.1	68	Church	58.5	57.2	63.8	58.5	57.2	63.8	68	Church	59.9	58.4	65.1	68	Church	59.4	58.2	64.8	59.4	58.2	64.8	68	Church	37.6	36.4
69	Church	56.8	55.4	62.0	69	Church	56.8	55.5	62.1	56.8	55.5	62.1	69	Church	57.8	56.3	63.0	69	Church	57.8	56.5	63.1	57.8	56.5	63.1	69	Church	31.8	31.5
70	School	54.4	53.0	59.6	70	School	55.4	54.4	60.9	55.4	54.4	60.9	70	School	55.4	54.0	60.6	70	School	56.1	55.1	61.7	56.1	55.1	61.7	70	School	36.2	35.9
71	Church	67.8	66.4	73.1	71	Church	63.1	61.7	68.3	63.1	61.7	68.3	71	Church	68.9	67.4	74.0	71	Church	64.1	62.6	69.3	64.1	62.6	69.3	71	Church	0.0	0.0
72	Residential	67.4	66.0	72.7	72	Residential	62.7	61.3	68.0	62.7	61.4	68.0	72	Residential	68.5	67.0	73.6	72	Residential	63.7	62.2	68.9	63.7	62.2	68.9	72	Residential	0.0	0.0
73	Residential	66.8	65.4	72.0	73	Residential	62.2	60.9	67.5	62.2	60.9	67.5	73	Residential	67.9	66.4	73.0	73	Residential	63.2	61.8	68.4	63.2	61.8	68.4	73	Residential	0.0	0.0
74	Residential	73.3	71.9	78.5	74	Residential	68.8	67.5	74.1	68.8	67.5	74.1	74	Residential	74.3	72.9	79.5	74	Residential	69.8	68.3	75.0	69.8	68.3	75.0	74	Residential	0.0	0.0
75	Residential	74.4	73.0	79.6	75	Residential	70.1	68.8	75.4	70.1	68.8	75.4	75	Residential	75.4	74.0	80.6	75	Residential	71.1	69.6	76.3	71.1	69.6	76.3	75	Residential	0.0	0.0
76	Residential	79.1	77.7	84.3	76	Residential	78.9	77.5	84.1	78.9	77.5	84.1	76	Residential	80.1	78.6	85.3	76	Residential	79.9	78.4	85.1	79.9	78.4	85.1	76	Residential	0.0	0.0
77	Residential	64.4	63.0	69.7	77	Residential	62.1	60.7	67.4	62.1	60.7	67.4	77	Residential	65.5	64.0	70.7	77	Residential	63.1	61.7	68.3	63.1	61.7	68.3	77	Residential	0.0	0.0
78	Residential	62.3	60.8	67.5	78	Residential	62.1	60.7	67.3	62.1	60.7	67.3	78	Residential	63.3	61.8	68.5	78	Residential	63.1	61.6	68.3	63.1	61.6	68.3	78	Residential	0.0	0.0
79	Residential	67.4	66.0	72.7	79	Residential	67.4	66.0	72.7	67.4	66.0	72.7	79	Residential	68.5	67.0	73.6	79	Residential	68.5	67.0	73.6	68.5	67.0	73.6	79	Residential	0.0	0.0
80	Residential	68.2	66.8	73.4	80	Residential	68.2	66.8	73.4	68.2	66.8	73.4	80	Residential	69.2	67.7	74.4	80	Residential	69.2	67.7	74.4	69.2	67.7	74.4	80	Residential	0.0	0.0
81	Residential	64.0	62.6	69.2	81	Residential	64.0	62.6	69.2	64.0	62.6	69.2	81	Residential	65.1	63.6	70.2	81	Residential	65.0	63.5	70.2	65.0	63.6	70.2	81	Residential	0.0	0.0
82	Residential	67.2	65.8	72.4	82	Residential	67.2	65.8	72.4	67.2	65.8	72.4	82	Residential	68.2	66.7	73.4	82	Residential	68.3	66.8	73.4	68.3	66.8	73.4	82	Residential	0.0	0.0
83	Residential	47.6	46.2	52.9	83	Residential	54.4	54.2	60.6	54.3	54.1	60.6	83	Residential	48.7	47.2	53.8	83	Residential	54.5	54.3	60.8	54.8	54.7	61.1	83	Residential	48.3	42.3
84	Residential	46.6	45.2	51.8	84	Residential	53.9	53.8	60.2	53.8	53.6	60.1	84	Residential	47.6	46.1	52.8	84	Residential	54.0	53.9	60.3	54.5	54.3	60.8	84	Residential	48.0	42.2
85	Residential	67.1	65.7	72.3	85	Residential	66.6	65.0	71.7	66.6	65.0	71.7	85	Residential	68.1	66.6	73.3	85	Residential	67.6	66.2	72.8	67.6	66.2	72.8	85	Residential	32.4	32.0
86	Residential	47.1	45.7	52.3	86	Residential	53.3	53.1	59.5	53.3	53.1	59.5	86	Residential	48.1	46.6	53.3	86	Residential	53.5	53.2	59.7	53.8	53.5	59.9	86	Residential	39.9	39.7
87	Residential	45.3	43.9	50.6	87	Residential	54.1	53.3	59.9	54.1	53.3	59.9	87	Residential	46.4	44.9	51.5	87	Residential	54.2	53.5	60.0	54.4	53.7	60.2	87	Residential	43.3	42.4
88	Residential	45.9	44.5	51.1	88	Residential	54.3	53.8	60.3	54.3	53.8	60.3	88	Residential	46.9	45.4	52.1	88	Residential	54.4	53.9	60.4	54.6	54.1	60.6	88	Residential	44.3	43.3
89	Residential	45.9	44.5	51.1	89	Residential	54.4	53.9	60.4	54.4	53.9	60.4	89	Residential	47.0	45.5	52.1	89	Residential	54.5	54.0	60.5	54.7	54.2	60.7	89	Residential	44.8	43.7
90	Residential	45.5	44.0	50.7	90	Residential	54.4	54.0	60.5	54.4	54.0	60.5	90	Residential	46.5	45.0	51.7	90	Residential	54.5	54.1	60.6	54.7	54.3	60.8	90	Residential	46.0	44.7

Source: SoundPLAN Essential 5.1

BIG Operational Exterior Noise Impact Analysis - Existing

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Exterior Noise								
				Daytime			Nighttime			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
1	Residential	County	LT-3	59.2	60	No	57.8	60	No	64.5	60	Yes
2	Residential	County	LT-3	58.1	60	No	56.7	60	No	63.4	60	Yes
3	Residential	County	LT-3	59.3	60	No	57.9	60	No	64.6	60	Yes
4	Residential	City	LT-3	56.7	65	No	55.3	60	No	62.0	60	Yes
5	Residential	City	LT-3	58.4	65	No	57.1	65	No	63.7	65	No
6	Residential	City	LT-5	52.8	65	No	51.4	65	No	58.1	65	No
7	Residential	City	LT-5	61.9	65	No	60.5	65	No	67.2	65	Yes
8	Residential	County	LT-5	64.7	60	Yes	63.3	60	Yes	70.0	60	Yes
9	Residential	County	LT-5	66.1	60	Yes	64.7	60	Yes	71.3	60	Yes
10	Residential	County	LT-5	66.3	60	Yes	65.0	60	Yes	71.6	60	Yes
11	Residential	County	LT-5	66.7	60	Yes	65.3	60	Yes	71.9	60	Yes
12	Residential	County	LT-5	67.0	60	Yes	65.6	60	Yes	72.3	60	Yes
13	Residential	County	LT-5	67.4	60	Yes	66.1	60	Yes	72.7	60	Yes
14	Residential	County	LT-5	70.4	60	Yes	69.1	60	Yes	75.7	60	Yes
15	Residential	County	LT-5	72.2	60	Yes	70.9	60	Yes	77.5	60	Yes
16	Residential	County	LT-5	70.1	60	Yes	68.7	60	Yes	75.4	60	Yes
17	Residential	County	LT-5	70.2	60	Yes	68.8	60	Yes	75.4	60	Yes
18	Residential	County	LT-5	68.3	60	Yes	66.9	60	Yes	73.5	60	Yes
19	Residential	County	LT-5	68.9	60	Yes	67.5	60	Yes	74.1	60	Yes
20	Residential	County	LT-5	69.1	60	Yes	67.7	60	Yes	74.3	60	Yes
21	Residential	County	LT-5	70.0	60	Yes	68.6	60	Yes	75.2	60	Yes
22	Residential	County	LT-5	69.7	60	Yes	68.3	60	Yes	75.0	60	Yes
23	Residential	County	LT-5	69.3	60	Yes	67.9	60	Yes	74.6	60	Yes
24	Residential	County	LT-5	70.8	60	Yes	69.4	60	Yes	76.1	60	Yes
25	Residential	County	LT-5	70.9	60	Yes	69.5	60	Yes	76.1	60	Yes
26	Residential	County	LT-5	71.0	60	Yes	69.6	60	Yes	76.2	60	Yes
27	Residential	County	LT-5	70.6	60	Yes	69.2	60	Yes	75.9	60	Yes
28	Residential	County	LT-5	71.8	60	Yes	70.4	60	Yes	77.0	60	Yes
29	Residential	County	LT-5	68.5	60	Yes	67.2	60	Yes	73.8	60	Yes
30	Residential	County	LT-4	73.1	60	Yes	71.7	60	Yes	78.4	60	Yes
31	Residential	County	LT-4	73.0	60	Yes	71.7	60	Yes	78.3	60	Yes
32	Residential	County	LT-4	73.0	60	Yes	71.6	60	Yes	78.3	60	Yes
33	Residential	County	LT-4	70.5	60	Yes	69.1	60	Yes	75.8	60	Yes
34	Residential	County	LT-4	70.6	60	Yes	69.2	60	Yes	75.8	60	Yes
35	Residential	County	LT-4	70.7	60	Yes	69.3	60	Yes	75.9	60	Yes

BIG Operational Exterior Noise Impact Analysis - Existing

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Exterior Noise								
				Daytime			Nighttime			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
36 (Jasper Park)	Park/Recreation	County	LT-4	73.2	60	Yes	71.9	60	Yes	78.5	60	Yes
37	Residential	County	OH-1	69.3	60	Yes	68.0	60	Yes	74.6	60	Yes
38	Residential	County	LT-4	68.9	60	Yes	67.5	60	Yes	74.2	60	Yes
39	Residential	County	LT-4	71.3	60	Yes	70.0	60	Yes	76.6	60	Yes
40	Residential	County	LT-4	71.1	60	Yes	69.7	60	Yes	76.4	60	Yes
41	Residential	County	LT-4	66.2	60	Yes	64.9	60	Yes	71.5	60	Yes
42	Residential	County	LT-4	65.6	60	Yes	64.2	60	Yes	70.9	60	Yes
43	Residential	County	LT-4	64.9	60	Yes	63.5	60	Yes	70.2	60	Yes
44	Residential	County	LT-4	64.3	60	Yes	63.0	60	Yes	69.6	60	Yes
45	Residential	County	LT-4	65.0	60	Yes	63.6	60	Yes	70.3	60	Yes
46	Residential	County	LT-4	64.2	60	Yes	62.9	60	Yes	69.5	60	Yes
47	Residential	County	LT-4	63.5	60	Yes	62.2	60	Yes	68.8	60	Yes
48	Residential	County	LT-4	63.2	60	Yes	61.8	60	Yes	68.5	60	Yes
49	Residential	County	LT-4	61.9	60	Yes	60.6	60	Yes	67.2	60	Yes
50	Residential	County	LT-4	61.6	60	Yes	60.3	60	Yes	66.9	60	Yes
51	Residential	County	LT-4	61.3	60	Yes	59.9	60	No	66.6	60	Yes
52	Residential	County	LT-4	55.4	60	No	54.0	60	No	60.6	60	Yes
53	Residential	County	LT-1	54.6	60	No	53.2	60	No	59.8	60	No
54	Residential	County	LT-1	66.5	60	Yes	65.1	60	Yes	71.8	60	Yes
55	Residential	County	LT-2	70.8	60	Yes	69.5	60	Yes	76.1	60	Yes
56	Residential	County	LT-2	72.0	60	Yes	70.7	60	Yes	77.3	60	Yes
57	Residential	County	LT-2	71.3	60	Yes	70.0	60	Yes	76.6	60	Yes
58	Residential	County	LT-2	72.0	60	Yes	70.7	60	Yes	77.3	60	Yes
59	Residential	County	LT-2	71.0	60	Yes	69.6	60	Yes	76.2	60	Yes
60	Residential	County	LT-2	69.2	60	Yes	67.8	60	Yes	74.4	60	Yes
61	Residential	County	LT-2	73.6	60	Yes	72.3	60	Yes	78.9	60	Yes
62	Residential	County	LT-2	74.9	60	Yes	73.5	60	Yes	80.2	60	Yes
63	Residential	County	LT-2	69.1	60	Yes	67.7	60	Yes	74.4	60	Yes
64	Residential	County	LT-2	71.0	60	Yes	69.6	60	Yes	76.2	60	Yes
65 (Lenwood Elementary School)	School	County	LT-2	64.8	60	Yes	63.4	60	Yes	70.1	60	Yes
66 (Lenwood Park)	Park/Recreation	County	OH-2	61.2	60	Yes	59.8	60	No	66.4	60	Yes
67 (Missionary Baptist Church)	Church	County	OH-2	62.5	60	Yes	61.1	60	Yes	67.7	60	Yes
68 (Saint Phillip Church)	Church	County	OH-1	58.2	60	No	56.8	60	No	63.5	60	Yes
69 (Ingels School)	School	City	OH-3	56.1	65	No	54.8	65	No	61.4	65	No
70 (Grandview Baptist Church)	Church	County	LT-6	53.8	60	No	52.4	60	No	59.0	60	No

BIG Operational Exterior Noise Impact Analysis - Existing

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Exterior Noise								
				Daytime			Nighttime			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
71	Residential	County	LT-6	67.2	60	Yes	65.8	60	Yes	72.5	60	Yes
72	Residential	County	LT-2	66.8	60	Yes	65.4	60	Yes	72.1	60	Yes
73	Residential	County	LT-2	66.2	60	Yes	64.8	60	Yes	71.5	60	Yes
74	Residential	County	LT-2	72.7	60	Yes	71.3	60	Yes	77.9	60	Yes
75	Residential	County	LT-2	73.8	60	Yes	72.4	60	Yes	79.0	60	Yes
76	Residential	County	LT-2	78.5	60	Yes	77.1	60	Yes	83.7	60	Yes
77	Residential	County	LT-2	63.8	60	Yes	62.4	60	Yes	69.1	60	Yes
78	Residential	County	LT-2	61.6	60	Yes	60.3	60	Yes	66.9	60	Yes
79	Residential	County	LT-2	66.8	60	Yes	65.4	60	Yes	72.1	60	Yes
80	Residential	County	LT-2	67.6	60	Yes	66.2	60	Yes	72.8	60	Yes
81	Residential	County	LT-2	63.4	60	Yes	62.0	60	Yes	68.6	60	Yes
82	Residential	County	LT-2	66.5	60	Yes	65.2	60	Yes	71.8	60	Yes
83	Residential	City	LT-2	47.0	65	No	45.6	65	No	52.3	65	No
84	Residential	City	LT-3	46.0	65	No	44.6	65	No	51.2	65	No
85	Residential	City	LT-3	66.5	65	Yes	65.1	65	Yes	71.7	65	Yes
86	Residential	City	LT-3	46.5	65	No	45.1	65	No	51.7	65	No
87	Residential	City	LT-3	44.7	65	No	43.3	65	No	50.0	65	No
88	Residential	City	LT-3	45.3	65	No	43.9	65	No	50.5	65	No
89	Residential	City	LT-3	45.3	65	No	43.9	65	No	50.6	65	No
90	Residential	City	LT-3	44.8	65	No	43.5	65	No	50.1	65	No

Construction Year 2026 (South Mainlines) Absolute Exterior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									Impact Analysis									
				Measured Ambient Noise Level (L _{90hr} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.3	55	Yes	59.3	45	Yes	64.5	60	Yes	58.1	55	Yes	56.6	45	Yes	63.3	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
2	Residential	County	LT-3	66.5	58.2	55	Yes	58.2	45	Yes	63.4	60	Yes	54.3	55	No	52.8	45	Yes	59.4	60	No	No	1.5	No	Yes	1.5	No	No	1.5	No
3	Residential	County	LT-3	66.5	59.4	55	Yes	59.4	45	Yes	64.6	60	Yes	54.6	55	No	53.1	45	Yes	59.8	60	No	No	1.5	No	Yes	1.5	No	No	1.5	No
4	Residential	City	LT-3	66.5	56.8	65	No	56.8	65	No	62.0	65	No	52.1	65	No	50.6	65	No	57.3	65	No	No	1.5	No	No	1.5	No	No	1.5	No
5	Residential	City	LT-3	66.5	58.6	65	No	58.6	65	No	63.7	65	No	51.2	65	No	49.7	65	No	56.3	65	No	No	1.5	No	No	1.5	No	No	1.5	No
6	Residential	City	LT-5	58.1	52.9	65	No	52.9	65	No	58.1	65	No	50.2	65	No	48.7	65	No	55.4	65	No	No	5.0	No	No	5.0	No	No	5.0	No
7	Residential	City	LT-5	58.1	62.0	65	No	62.0	65	No	67.2	65	Yes	60.0	65	No	58.5	65	No	65.2	65	Yes	No	5.0	No	No	5.0	No	Yes	5.0	No
8	Residential	County	LT-5	58.1	64.8	55	Yes	64.8	45	Yes	70.0	60	Yes	65.0	55	Yes	63.5	45	Yes	70.1	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
9	Residential	County	LT-5	58.1	66.2	55	Yes	66.2	45	Yes	71.4	60	Yes	66.3	55	Yes	64.8	45	Yes	71.5	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
10	Residential	County	LT-5	58.1	66.5	55	Yes	66.5	45	Yes	71.6	60	Yes	66.6	55	Yes	65.1	45	Yes	71.7	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
11	Residential	County	LT-5	58.1	66.8	55	Yes	66.8	45	Yes	72.0	60	Yes	66.9	55	Yes	65.4	45	Yes	72.0	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
12	Residential	County	LT-5	58.1	67.2	55	Yes	67.2	45	Yes	72.3	60	Yes	67.2	55	Yes	65.7	45	Yes	72.3	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
13	Residential	County	LT-5	58.1	67.6	55	Yes	67.6	45	Yes	72.7	60	Yes	67.6	55	Yes	66.1	45	Yes	72.7	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
14	Residential	County	LT-5	58.1	70.6	55	Yes	70.6	45	Yes	75.7	60	Yes	70.6	55	Yes	69.1	45	Yes	75.8	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
15	Residential	County	LT-5	58.1	72.4	55	Yes	72.4	45	Yes	77.5	60	Yes	72.4	55	Yes	70.9	45	Yes	77.5	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
16	Residential	County	LT-5	58.1	70.3	55	Yes	70.3	45	Yes	75.4	60	Yes	70.3	55	Yes	68.7	45	Yes	75.4	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
17	Residential	County	LT-5	58.1	70.3	55	Yes	70.3	45	Yes	75.5	60	Yes	70.3	55	Yes	68.8	45	Yes	75.5	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
18	Residential	County	LT-5	58.1	68.4	55	Yes	68.4	45	Yes	73.6	60	Yes	68.4	55	Yes	66.9	45	Yes	73.6	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
19	Residential	County	LT-5	58.1	69.0	55	Yes	69.0	45	Yes	74.1	60	Yes	69.0	55	Yes	67.5	45	Yes	74.2	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
20	Residential	County	LT-5	58.1	69.2	55	Yes	69.2	45	Yes	74.4	60	Yes	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
21	Residential	County	LT-5	58.1	70.1	55	Yes	70.1	45	Yes	75.2	60	Yes	70.1	55	Yes	68.6	45	Yes	75.3	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
22	Residential	County	LT-5	58.1	69.8	55	Yes	69.8	45	Yes	75.0	60	Yes	69.9	55	Yes	68.4	45	Yes	75.0	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
23	Residential	County	LT-5	58.1	69.4	55	Yes	69.4	45	Yes	74.6	60	Yes	69.5	55	Yes	68.0	45	Yes	74.6	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
24	Residential	County	LT-5	58.1	70.9	55	Yes	70.9	45	Yes	76.1	60	Yes	71.0	55	Yes	69.5	45	Yes	76.1	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
25	Residential	County	LT-5	58.1	71.0	55	Yes	71.0	45	Yes	76.2	60	Yes	71.0	55	Yes	69.5	45	Yes	76.2	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
26	Residential	County	LT-5	58.1	71.1	55	Yes	71.1	45	Yes	76.3	60	Yes	71.2	55	Yes	69.7	45	Yes	76.3	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
27	Residential	County	LT-5	58.1	70.8	55	Yes	70.8	45	Yes	75.9	60	Yes	70.8	55	Yes	69.3	45	Yes	76.0	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
28	Residential	County	LT-5	58.1	71.9	55	Yes	71.9	45	Yes	77.0	60	Yes	72.0	55	Yes	70.5	45	Yes	77.1	60	Yes	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
29	Residential	County	LT-4	66.1	68.7	55	Yes	68.7	45	Yes	73.8	60	Yes	68.6	55	Yes	67.1	45	Yes	73.8	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
30	Residential	County	LT-4	66.1	73.2	55	Yes	73.2	45	Yes	78.4	60	Yes	73.2	55	Yes	71.7	45	Yes	78.3	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
31	Residential	County	LT-4	66.1	73.2	55	Yes	73.2	45	Yes	78.3	60	Yes	73.1	55	Yes	71.6	45	Yes	78.2	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
32	Residential	County	LT-4	66.1	73.1	55	Yes	73.1	45	Yes	78.3	60	Yes	73.0	55	Yes	71.5	45	Yes	78.2	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
33	Residential	County	LT-4	66.1	70.6	55	Yes	70.6	45	Yes	75.8	60	Yes	70.6	55	Yes	69.1	45	Yes	75.7	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
34	Residential	County	LT-4	66.1	70																										

BIG Operational Exterior Noise Impact Analysis - Construction Year 2026 - South Mainlines																															
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									Impact Analysis									
				Measured Ambient Noise Level (L _{day} , L _{night})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
76	Residential	County	LT-2	77.2	78.6	55	Yes	78.6	45	Yes	83.7	60	Yes	78.6	55	Yes	77.1	45	Yes	83.7	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
77	Residential	County	LT-2	77.2	64.0	55	Yes	64.0	45	Yes	69.1	60	Yes	64.0	55	Yes	62.4	45	Yes	69.1	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
78	Residential	County	LT-2	77.2	61.8	55	Yes	61.8	45	Yes	66.9	60	Yes	61.8	55	Yes	60.3	45	Yes	66.9	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
79	Residential	County	LT-2	77.2	66.9	55	Yes	66.9	45	Yes	72.1	60	Yes	66.9	55	Yes	65.4	45	Yes	72.1	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
80	Residential	County	LT-2	77.2	67.7	55	Yes	67.7	45	Yes	72.9	60	Yes	67.7	55	Yes	66.2	45	Yes	72.9	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
81	Residential	County	LT-2	77.2	63.5	55	Yes	63.5	45	Yes	68.7	60	Yes	63.5	55	Yes	62.0	45	Yes	68.7	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
82	Residential	County	LT-2	77.2	66.7	55	Yes	66.7	45	Yes	71.8	60	Yes	66.7	55	Yes	65.2	45	Yes	71.8	60	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
83	Residential	City	LT-3	66.5	47.1	65	No	47.1	65	No	52.3	65	No	44.4	65	No	42.9	65	No	49.5	65	No	No	1.5	No	No	1.5	No	No	1.5	No
84	Residential	City	LT-3	66.5	46.1	65	No	46.1	65	No	51.2	65	No	43.5	65	No	42.0	65	No	48.6	65	No	No	1.5	No	No	1.5	No	No	1.5	No
85	Residential	City	LT-3	66.5	66.6	65	Yes	66.6	65	Yes	71.7	65	Yes	66.6	65	Yes	65.1	65	Yes	71.7	65	Yes	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	46.6	65	No	46.6	65	No	51.8	65	No	42.1	65	No	40.6	65	No	47.2	65	No	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	44.8	65	No	44.8	65	No	50.0	65	No	41.6	65	No	40.1	65	No	46.7	65	No	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	45.4	65	No	45.4	65	No	50.5	65	No	42.2	65	No	40.7	65	No	47.4	65	No	No	1.5	No	No	1.5	No	No	1.5	No
89	Residential	City	LT-3	66.5	45.4	65	No	45.4	65	No	50.6	65	No	42.3	65	No	40.8	65	No	47.5	65	No	No	1.5	No	No	1.5	No	No	1.5	No
90	Residential	City	LT-3	66.5	45.0	65	No	45.0	65	No	50.1	65	No	42.0	65	No	40.5	65	No	47.2	65	No	No	1.5	No	No	1.5	No	No	1.5	No

Construction Year 2026 (South Mainlines) Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis					
			Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
			Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	59.3	59.3	64.5	58.1	56.6	63.3	-1.2	-2.7	-1.2	1.5	No	1.5	No	1.5	No
2	Residential	County	58.2	58.2	63.4	54.3	52.8	59.4	-3.9	-5.4	-4.0	1.5	No	1.5	No	1.5	No
3	Residential	County	59.4	59.4	64.6	54.6	53.1	59.8	-4.8	-6.3	-4.8	1.5	No	1.5	No	1.5	No
4	Residential	City	56.8	56.8	62.0	52.1	50.6	57.3	-4.7	-6.2	-4.7	1.5	No	1.5	No	1.5	No
5	Residential	City	58.6	58.6	63.7	51.2	49.7	56.3	-7.4	-8.9	-7.4	1.5	No	1.5	No	1.5	No
6	Residential	City	52.9	52.9	58.1	50.2	48.7	55.4	-2.7	-4.2	-2.7	5.0	No	5.0	No	5.0	No
7	Residential	City	62.0	62.0	67.2	60.0	58.5	65.2	-2.0	-3.5	-2.0	5.0	No	5.0	No	5.0	No
8	Residential	County	64.8	64.8	70.0	65.0	63.5	70.1	0.2	-1.3	0.1	5.0	No	5.0	No	5.0	No
9	Residential	County	66.2	66.2	71.4	66.3	64.8	71.5	0.1	-1.4	0.1	5.0	No	5.0	No	5.0	No
10	Residential	County	66.5	66.5	71.6	66.6	65.1	71.7	0.1	-1.4	0.1	5.0	No	5.0	No	5.0	No
11	Residential	County	66.8	66.8	72.0	66.9	65.4	72.0	0.1	-1.4	0.0	5.0	No	5.0	No	5.0	No
12	Residential	County	67.2	67.2	72.3	67.2	65.7	72.3	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
13	Residential	County	67.6	67.6	72.7	67.6	66.1	72.7	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
14	Residential	County	70.6	70.6	75.7	70.6	69.1	75.8	0.0	-1.5	0.1	5.0	No	5.0	No	5.0	No
15	Residential	County	72.4	72.4	77.5	72.4	70.9	77.5	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
16	Residential	County	70.3	70.3	75.4	70.3	68.7	75.4	0.0	-1.6	0.0	5.0	No	5.0	No	5.0	No
17	Residential	County	70.3	70.3	75.5	70.3	68.8	75.5	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
18	Residential	County	68.4	68.4	73.6	68.4	66.9	73.6	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
19	Residential	County	69.0	69.0	74.1	69.0	67.5	74.2	0.0	-1.5	0.1	5.0	No	5.0	No	5.0	No
20	Residential	County	69.2	69.2	74.4	69.2	67.7	74.4	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
21	Residential	County	70.1	70.1	75.2	70.1	68.6	75.3	0.0	-1.5	0.1	5.0	No	5.0	No	5.0	No
22	Residential	County	69.8	69.8	75.0	69.9	68.4	75.0	0.1	-1.4	0.0	5.0	No	5.0	No	5.0	No
23	Residential	County	69.4	69.4	74.6	69.5	68.0	74.6	0.1	-1.4	0.0	5.0	No	5.0	No	5.0	No
24	Residential	County	70.9	70.9	76.1	71.0	69.5	76.1	0.1	-1.4	0.0	5.0	No	5.0	No	5.0	No
25	Residential	County	71.0	71.0	76.2	71.0	69.5	76.2	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
26	Residential	County	71.1	71.1	76.3	71.2	69.7	76.3	0.1	-1.4	0.0	5.0	No	5.0	No	5.0	No
27	Residential	County	70.8	70.8	75.9	70.8	69.3	76.0	0.0	-1.5	0.1	5.0	No	5.0	No	5.0	No
28	Residential	County	71.9	71.9	77.0	72.0	70.5	77.1	0.1	-1.4	0.1	5.0	No	5.0	No	5.0	No
29	Residential	County	68.7	68.7	73.8	68.6	67.1	73.8	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
30	Residential	County	73.2	73.2	78.4	73.2	71.7	78.3	0.0	-1.5	-0.1	1.5	No	1.5	No	1.5	No
31	Residential	County	73.2	73.2	78.3	73.1	71.6	78.2	-0.1	-1.6	-0.1	1.5	No	1.5	No	1.5	No
32	Residential	County	73.1	73.1	78.3	73.0	71.5	78.2	-0.1	-1.6	-0.1	1.5	No	1.5	No	1.5	No
33	Residential	County	70.6	70.6	75.8	70.6	69.1	75.7	0.0	-1.5	-0.1	1.5	No	1.5	No	1.5	No
34	Residential	County	70.7	70.7	75.9	70.6	69.1	75.8	-0.1	-1.6	-0.1	1.5	No	1.5	No	1.5	No
35	Residential	County	70.8	70.8	75.9	70.8	69.3	75.9	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	73.4	73.4	78.5	73.3	71.8	78.5	-0.1	-1.6	0.0	5.0	No	5.0	No	5.0	No
37	Residential	County	69.5	69.5	74.6	69.4	67.9	74.6	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
38	Residential	County	69.0	69.0	74.2	69.0	67.5	74.2	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
39	Residential	County	71.5	71.5	76.6	71.4	69.9	76.6	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
40	Residential	County	71.2	71.2	76.4	71.2	69.7	76.4	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
41	Residential	County	66.4	66.4	71.5	66.4	64.8	71.5	0.0	-1.6	0.0	1.5	No	1.5	No	1.5	No
42	Residential	County	65.7	65.7	70.9	65.7	64.2	70.9	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
43	Residential	County	65.0	65.0	70.2	65.0	63.5	70.2	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No

Construction Year 2026 (South Mainlines) Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis					
			Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
			Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
44	Residential	County	64.5	64.5	69.6	64.4	62.9	69.6	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
45	Residential	County	65.2	65.2	70.3	65.1	63.6	70.3	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
46	Residential	County	64.4	64.4	69.5	64.3	62.8	69.5	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
47	Residential	County	63.7	63.7	68.8	63.6	62.1	68.8	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
48	Residential	County	63.3	63.3	68.5	63.3	61.8	68.4	0.0	-1.5	-0.1	1.5	No	1.5	No	1.5	No
49	Residential	County	62.1	62.1	67.2	62.0	60.5	67.1	-0.1	-1.6	-0.1	1.5	No	1.5	No	1.5	No
50	Residential	County	61.8	61.8	66.9	61.7	60.2	66.8	-0.1	-1.6	-0.1	1.5	No	1.5	No	1.5	No
51	Residential	County	61.5	61.5	66.6	61.3	59.8	66.4	-0.2	-1.7	-0.2	1.5	No	1.5	No	1.5	No
52	Residential	County	55.5	55.5	60.6	47.9	46.4	53.0	-7.6	-9.1	-7.6	3.0	No	3.0	No	3.0	No
53	Residential	County	54.7	54.7	59.9	47.4	45.9	52.6	-7.3	-8.8	-7.3	3.0	No	3.0	No	3.0	No
54	Residential	County	66.6	66.6	71.8	67.8	66.3	73.0	1.2	-0.3	1.2	1.5	No	1.5	No	1.5	No
55	Residential	County	71.0	71.0	76.1	72.2	70.7	77.4	1.2	-0.3	1.3	1.5	No	1.5	No	1.5	No
56	Residential	County	72.2	72.2	77.3	72.9	71.4	78.0	0.7	-0.8	0.7	1.5	No	1.5	No	1.5	No
57	Residential	County	71.5	71.5	76.6	71.8	70.3	76.9	0.3	-1.2	0.3	1.5	No	1.5	No	1.5	No
58	Residential	County	72.2	72.2	77.3	72.3	70.8	77.4	0.1	-1.4	0.1	1.5	No	1.5	No	1.5	No
59	Residential	County	71.1	71.1	76.3	71.1	69.6	76.2	0.0	-1.5	-0.1	1.5	No	1.5	No	1.5	No
60	Residential	County	69.3	69.3	74.4	69.2	67.7	74.4	-0.1	-1.6	0.0	1.5	No	1.5	No	1.5	No
61	Residential	County	73.8	73.8	78.9	73.8	72.2	78.9	0.0	-1.6	0.0	1.5	No	1.5	No	1.5	No
62	Residential	County	75.0	75.0	80.2	75.0	73.5	80.2	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
63	Residential	County	69.2	69.2	74.4	69.2	67.7	74.4	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
64	Residential	County	71.1	71.1	76.3	71.1	69.6	76.3	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	64.9	64.9	70.1	64.9	63.4	70.1	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	61.3	61.3	66.5	61.3	59.8	66.5	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	62.6	62.6	67.7	62.6	61.1	67.8	0.0	-1.5	0.1	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	58.4	58.4	63.5	58.4	56.9	63.5	0.0	-1.5	0.0	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	56.3	56.3	61.4	56.3	54.8	61.4	0.0	-1.5	0.0	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	53.9	53.9	59.1	54.0	52.5	59.2	0.1	-1.4	0.1	3.0	No	3.0	No	3.0	No
71	Residential	County	67.3	67.3	72.5	67.3	65.8	72.5	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
72	Residential	County	66.9	66.9	72.1	66.9	65.4	72.1	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
73	Residential	County	66.3	66.3	71.5	66.3	64.8	71.5	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
74	Residential	County	72.8	72.8	78.0	72.8	71.3	78.0	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
75	Residential	County	73.9	73.9	79.1	73.9	72.4	79.1	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
76	Residential	County	78.6	78.6	83.7	78.6	77.1	83.7	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
77	Residential	County	64.0	64.0	69.1	64.0	62.4	69.1	0.0	-1.6	0.0	1.5	No	1.5	No	1.5	No
78	Residential	County	61.8	61.8	66.9	61.8	60.3	66.9	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
79	Residential	County	66.9	66.9	72.1	66.9	65.4	72.1	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	67.7	67.7	72.9	67.7	66.2	72.9	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	63.5	63.5	68.7	63.5	62.0	68.7	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	66.7	66.7	71.8	66.7	65.2	71.8	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	47.1	47.1	52.3	44.4	42.9	49.5	-2.7	-4.2	-2.8	1.5	No	1.5	No	1.5	No
84	Residential	City	46.1	46.1	51.2	43.5	42.0	48.6	-2.6	-4.1	-2.6	1.5	No	1.5	No	1.5	No
85	Residential	City	66.6	66.6	71.7	66.6	65.1	71.7	0.0	-1.5	0.0	1.5	No	1.5	No	1.5	No
86	Residential	City	46.6	46.6	51.8	42.1	40.6	47.2	-4.5	-6.0	-4.6	1.5	No	1.5	No	1.5	No

Construction Year 2026 (South Mainelines) Exterior Incremental Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis					
			Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
			Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
87	Residential	City	44.8	44.8	50.0	41.6	40.1	46.7	-3.2	-4.7	-3.3	1.5	No	1.5	No	1.5	No
88	Residential	City	45.4	45.4	50.5	42.2	40.7	47.4	-3.2	-4.7	-3.1	1.5	No	1.5	No	1.5	No
89	Residential	City	45.4	45.4	50.6	42.3	40.8	47.5	-3.1	-4.6	-3.1	1.5	No	1.5	No	1.5	No
90	Residential	City	45.0	45.0	50.1	42.0	40.5	47.2	-3.0	-4.5	-2.9	1.5	No	1.5	No	1.5	No

Opening Year 2028 Exterior Absolute Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis											
				Measured Ambient Noise Level (L _{day} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn				
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?		
1	Residential	County	LT-3	66.5	59.5	55	Yes	58.1	45	Yes	64.7	60	Yes	61.5	55	Yes	60.9	45	Yes	67.4	60	Yes	2.0	2.8	2.7	Yes	1.5	Yes	Yes	1.5	Yes	Yes	1.5	Yes	Yes	
2	Residential	County	LT-3	66.5	58.4	55	Yes	57.0	45	Yes	63.7	60	Yes	59.1	55	Yes	58.8	45	Yes	65.3	60	Yes	0.7	1.8	1.6	Yes	1.5	No	Yes	1.5	Yes	Yes	1.5	Yes	Yes	
3	Residential	County	LT-3	66.5	59.6	55	Yes	58.2	45	Yes	64.8	60	Yes	59.4	55	Yes	59.0	45	Yes	65.5	60	Yes	-0.2	0.8	0.7	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No	No	
4	Residential	City	LT-3	66.5	57.0	65	No	55.6	65	No	62.3	65	No	58.8	65	No	58.3	65	No	64.8	65	No	1.8	2.7	2.5	No	1.5	No	No	1.5	Yes	No	1.5	Yes	No	
5	Residential	City	LT-3	66.5	58.7	65	No	57.4	65	No	64.0	65	No	59.0	65	No	58.6	65	No	65.1	65	Yes	0.3	1.2	1.1	No	1.5	No	No	1.5	No	Yes	1.5	No	No	
6	Residential	City	LT-5	58.1	53.1	65	No	51.7	65	No	58.3	65	No	55.9	65	No	55.7	65	No	62.1	65	No	2.8	4.0	3.8	No	5.0	No	No	5.0	No	No	5.0	No	No	
7	Residential	City	LT-5	58.1	62.2	65	No	60.8	65	No	67.4	65	Yes	61.3	65	No	60.6	65	No	67.1	65	Yes	-0.9	-0.2	-0.3	No	5.0	No	No	5.0	No	Yes	5.0	No	No	
8	Residential	County	LT-5	58.1	65.0	55	Yes	63.6	45	Yes	70.2	60	Yes	63.9	55	Yes	62.8	45	Yes	69.4	60	Yes	-1.1	-0.8	-0.8	Yes	5.0	No	No	Yes	5.0	No	Yes	5.0	No	No
9	Residential	County	LT-5	58.1	66.3	55	Yes	65.0	45	Yes	71.6	60	Yes	65.3	55	Yes	64.2	45	Yes	70.8	60	Yes	-1.0	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
10	Residential	County	LT-5	58.1	66.6	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.5	45	Yes	71.1	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
11	Residential	County	LT-5	58.1	66.9	55	Yes	65.6	45	Yes	72.2	60	Yes	66.0	55	Yes	64.8	45	Yes	71.4	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
12	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.6	60	Yes	66.3	55	Yes	65.1	45	Yes	71.7	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
13	Residential	County	LT-5	58.1	67.7	55	Yes	66.4	45	Yes	73.0	60	Yes	66.7	55	Yes	65.5	45	Yes	72.1	60	Yes	-1.0	-0.9	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
14	Residential	County	LT-5	58.1	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	68.3	45	Yes	74.9	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
15	Residential	County	LT-5	58.1	72.5	55	Yes	71.2	45	Yes	77.8	60	Yes	71.3	55	Yes	70.0	45	Yes	76.6	60	Yes	-1.2	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
16	Residential	County	LT-5	58.1	70.4	55	Yes	69.0	45	Yes	75.7	60	Yes	69.0	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.4	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
17	Residential	County	LT-5	58.1	70.4	55	Yes	69.1	45	Yes	75.7	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
18	Residential	County	LT-5	58.1	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	67.4	55	Yes	66.1	45	Yes	72.7	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
19	Residential	County	LT-5	58.1	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	68.0	55	Yes	66.7	45	Yes	73.3	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
20	Residential	County	LT-5	58.1	69.3	55	Yes	68.0	45	Yes	74.6	60	Yes	68.2	55	Yes	66.9	45	Yes	73.5	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
21	Residential	County	LT-5	58.1	70.2	55	Yes	68.9	45	Yes	75.5	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
22	Residential	County	LT-5	58.1	70.0	55	Yes	68.6	45	Yes	75.3	60	Yes	68.8	55	Yes	67.5	45	Yes	74.2	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
23	Residential	County	LT-5	58.1	69.6	55	Yes	68.2	45	Yes	74.9	60	Yes	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
24	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.2	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
25	Residential	County	LT-5	58.1	71.1	55	Yes	69.8	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.3	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
26	Residential	County	LT-5	58.1	71.2	55	Yes	69.9	45	Yes	76.5	60	Yes	70.0	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
27	Residential	County	LT-5	58.1	70.9	55	Yes	69.5	45	Yes	76.2	60	Yes	69.7	55	Yes	68.4	45	Yes	75.0	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
28	Residential	County	LT-5	58.1	72.0	55	Yes	70.7	45	Yes	77.3	60	Yes	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No	No	
29	Residential	County	LT-4	66.1	68.8	55	Yes	67.4	45	Yes	74.1	60	Yes	68.3	55	Yes	67.0	45	Yes	73.6	60	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No	No	
30	Residential	County	LT-4	66.1	73.4	55	Yes	72.0	45	Yes	78.7	60	Yes	73.3	55	Yes	72.1	45	Yes	78.7	60	Yes														

Opening Year 2028 Exterior Absolute Noise Impact Analysis - Without Noise Barriers																																		
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis									
				Measured Ambient Noise Level (L _{day} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
84	Residential	City	LT-3	66.5	46.2	65	No	44.9	65	No	51.5	65	No	53.9	65	No	53.8	65	No	60.2	65	No	7.7	8.9	8.7	No	1.5	No	No	1.5	No	No	1.5	Yes
85	Residential	City	LT-3	66.5	66.7	65	Yes	65.4	65	Yes	72.0	65	Yes	66.2	65	Yes	64.9	65	No	71.5	65	Yes	-0.5	-0.5	-0.5	Yes	1.5	No	No	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	46.7	65	No	45.4	65	No	52.0	65	No	53.3	65	No	53.1	65	No	59.5	65	No	6.6	7.7	7.5	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	45.0	65	No	43.6	65	No	50.3	65	No	54.1	65	No	53.3	65	No	59.9	65	No	9.1	9.7	9.6	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	45.5	65	No	44.2	65	No	50.8	65	No	54.3	65	No	53.8	65	No	60.3	65	No	8.8	9.6	9.5	No	1.5	No	No	1.5	No	No	1.5	Yes
89	Residential	City	LT-3	66.5	45.6	65	No	44.2	65	No	50.9	65	No	54.3	65	No	53.9	65	No	60.4	65	No	8.7	9.7	9.5	No	1.5	No	No	1.5	No	No	1.5	Yes
90	Residential	City	LT-3	66.5	45.1	65	No	43.8	65	No	50.4	65	No	54.4	65	No	54.0	65	No	60.5	65	No	9.3	10.2	10.1	No	1.5	No	No	1.5	No	No	1.5	Yes

Opening Year 2028 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis							
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.5	58.1	64.7	61.5	60.9	67.4	2.0	2.8	2.7	Yes	1.5	Yes	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	66.5	58.4	57.0	63.7	59.1	58.8	65.3	0.7	1.8	1.6	Yes	1.5	No	1.5	Yes	1.5	Yes
3	Residential	County	LT-3	66.5	59.6	58.2	64.8	59.4	59.0	65.5	-0.2	0.8	0.7	Yes	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	57.0	55.6	62.3	58.8	58.3	64.8	1.8	2.7	2.5	No	1.5	Yes	1.5	Yes	1.5	Yes
5	Residential	City	LT-3	66.5	58.7	57.4	64.0	59.0	58.6	65.1	0.3	1.2	1.1	No	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	53.1	51.7	58.3	55.9	55.7	62.1	2.8	4.0	3.8	No	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	62.2	60.8	67.4	61.3	60.6	67.1	-0.9	-0.2	-0.3	No	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	65.0	63.6	70.2	63.9	62.8	69.4	-1.1	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	66.3	65.0	71.6	65.3	64.2	70.8	-1.0	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	66.6	65.3	71.9	65.7	64.5	71.1	-0.9	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	66.9	65.6	72.2	66.0	64.8	71.4	-0.9	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	67.3	65.9	72.6	66.3	65.1	71.7	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	67.7	66.4	73.0	66.7	65.5	72.1	-1.0	-0.9	-0.9	Yes	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	70.7	69.4	76.0	69.5	68.3	74.9	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	72.5	71.2	77.8	71.3	70.0	76.6	-1.2	-1.2	-1.2	Yes	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	70.4	69.0	75.7	69.0	67.7	74.4	-1.4	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	70.4	69.1	75.7	69.1	67.8	74.4	-1.3	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	68.5	67.2	73.8	67.4	66.1	72.7	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	69.1	67.8	74.4	68.0	66.7	73.3	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	69.3	68.0	74.6	68.2	66.9	73.5	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	70.2	68.9	75.5	69.1	67.8	74.4	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	70.0	68.6	75.3	68.8	67.5	74.2	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	69.6	68.2	74.9	68.5	67.2	73.8	-1.1	-1.0	-1.1	Yes	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	71.1	69.7	76.4	69.9	68.6	75.2	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	71.1	69.8	76.4	69.9	68.6	75.3	-1.2	-1.2	-1.1	Yes	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	71.2	69.9	76.5	70.0	68.7	75.4	-1.2	-1.2	-1.1	Yes	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	70.9	69.5	76.2	69.7	68.4	75.0	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	72.0	70.7	77.3	70.7	69.4	76.0	-1.3	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	68.8	67.4	74.1	68.3	67.0	73.6	-0.5	-0.4	-0.5	Yes	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	73.4	72.0	78.7	73.3	72.1	78.7	-0.1	0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	73.3	72.0	78.6	73.2	71.9	78.6	-0.1	-0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	73.3	71.9	78.6	73.1	71.9	78.5	-0.2	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	70.8	69.4	76.1	70.4	69.1	75.7	-0.4	-0.3	-0.4	Yes	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	70.8	69.5	76.1	70.4	69.2	75.8	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	70.9	69.6	76.2	70.5	69.3	75.9	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	73.5	72.2	78.8	73.3	72.1	78.7	-0.2	-0.1	-0.1	Yes	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	69.6	68.3	74.9	69.1	67.9	74.5	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	69.2	67.8	74.5	68.7	67.4	74.1	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	71.6	70.3	76.9	71.3	70.1	76.7	-0.3	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	71.4	70.0	76.7	71.2	69.9	76.6	-0.2	-0.1	-0.1	Yes	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	66.5	65.2	71.8	66.1	64.9	71.5	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	65.9	64.5	71.1	65.4	64.3	70.9	-0.5	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	65.2	63.8	70.5	64.8	63.6	70.2	-0.4	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	64.6	63.3	69.9	64.3	63.2	69.7	-0.3	-0.1	-0.2	Yes	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	65.3	63.9	70.6	64.9	63.8	70.4	-0.4	-0.1	-0.2	Yes	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	64.5	63.2	69.8	64.2	63.0	69.6	-0.3	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	63.8	62.5	69.1	63.5	62.5	69.0	-0.3	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	63.5	62.1	68.7	63.3	62.2	68.8	-0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
49	Residential	County	LT-4	66.1	62.2	60.9	67.5	62.2	61.2	67.8	0.0	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	61.9	60.6	67.2	62.0	61.1	67.7	0.1	0.5	0.5	Yes	1.5	No	1.5	No	1.5	No

Opening Year 2028 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis							
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
51	Residential	County	LT-4	66.1	61.6	60.2	66.9	61.9	61.1	67.6	0.3	0.9	0.7	Yes	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	61.2	55.6	54.3	60.9	54.0	53.7	60.1	-1.6	-0.6	-0.8	No	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	54.8	53.5	60.1	54.2	54.0	60.4	-0.6	0.5	0.3	No	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	66.8	65.4	72.1	65.6	64.4	71.0	-1.2	-1.0	-1.1	Yes	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	71.1	69.8	76.4	69.7	68.5	75.1	-1.4	-1.3	-1.3	Yes	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	72.3	71.0	77.6	68.8	67.5	74.1	-3.5	-3.5	-3.5	Yes	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	71.6	70.3	76.9	67.0	65.7	72.4	-4.6	-4.6	-4.5	Yes	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	72.3	71.0	77.6	67.4	66.1	72.7	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	71.2	69.9	76.5	66.3	64.9	71.6	-4.9	-5.0	-4.9	Yes	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	69.4	68.1	74.7	64.5	63.2	69.8	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	73.9	72.6	79.2	68.9	67.6	74.2	-5.0	-5.0	-5.0	Yes	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	75.2	73.8	80.5	70.1	68.7	75.4	-5.1	-5.1	-5.1	Yes	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	69.4	68.0	74.7	64.5	63.2	69.8	-4.9	-4.8	-4.9	Yes	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	71.2	69.9	76.5	66.3	65.0	71.6	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	65.1	63.7	70.4	64.2	62.9	69.5	-0.9	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	61.4	60.1	66.7	60.8	59.6	66.2	-0.6	-0.5	-0.5	Yes	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	62.7	61.4	68.0	62.2	61.0	67.6	-0.5	-0.4	-0.4	Yes	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	58.5	57.1	63.8	58.2	57.1	63.7	-0.3	0.0	-0.1	Yes	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	56.4	55.1	61.7	56.5	55.3	61.9	0.1	0.2	0.2	Yes	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	54.0	52.7	59.3	55.1	54.3	60.8	1.1	1.6	1.5	Yes	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	67.5	66.1	72.8	62.7	61.4	68.0	-4.8	-4.7	-4.8	Yes	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	67.1	65.7	72.4	62.4	61.1	67.7	-4.7	-4.6	-4.7	Yes	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	66.5	65.1	71.7	61.9	60.6	67.2	-4.6	-4.5	-4.5	Yes	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	72.9	71.6	78.2	68.5	67.1	73.8	-4.4	-4.5	-4.4	Yes	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	74.0	72.7	79.3	69.8	68.5	75.1	-4.2	-4.2	-4.2	Yes	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	78.7	77.4	84.0	78.9	77.5	84.1	0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	64.1	62.7	69.4	62.0	60.6	67.3	-2.1	-2.1	-2.1	Yes	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	61.9	60.6	67.2	62.1	60.7	67.3	0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	67.1	65.7	72.4	67.4	66.0	72.7	0.3	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	67.8	66.5	73.1	68.2	66.8	73.4	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	63.6	62.3	68.9	64.0	62.6	69.2	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	66.8	65.5	72.1	67.2	65.8	72.4	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	47.3	45.9	52.6	54.3	54.2	60.6	7.0	8.3	8.0	No	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	46.2	44.9	51.5	53.9	53.8	60.2	7.7	8.9	8.7	No	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	66.7	65.4	72.0	66.2	64.9	71.5	-0.5	-0.5	-0.5	Yes	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	46.7	45.4	52.0	53.3	53.1	59.5	6.6	7.7	7.5	No	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	45.0	43.6	50.3	54.1	53.3	59.9	9.1	9.7	9.6	No	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	45.5	44.2	50.8	54.3	53.8	60.3	8.8	9.6	9.5	No	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	45.6	44.2	50.9	54.3	53.9	60.4	8.7	9.7	9.5	No	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	45.1	43.8	50.4	54.4	54.0	60.5	9.3	10.2	10.1	No	1.5	Yes	1.5	Yes	1.5	Yes

Opening Year 2028 Exterior Absolute Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L ₉₀ , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
					Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn						Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Daytime	Nighttime	Ldn	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.5	55	Yes	58.1	45	Yes	64.7	60	Yes	59.6	55	Yes	59.2	45	Yes	65.7	60	Yes	0.1	1.1	1.0	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
2	Residential	County	LT-3	66.5	58.4	55	Yes	57.0	45	Yes	63.7	60	Yes	58.1	55	Yes	57.8	45	Yes	64.3	60	Yes	-0.3	0.8	0.6	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
3	Residential	County	LT-3	66.5	59.6	55	Yes	58.2	45	Yes	64.8	60	Yes	58.0	55	Yes	57.7	45	Yes	64.1	60	Yes	-1.6	-0.5	-0.7	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
4	Residential	City	LT-3	66.5	57.0	65	No	55.6	65	No	62.3	65	No	57.5	65	No	57.1	65	No	63.6	65	No	0.5	1.5	1.3	No	1.5	No	No	1.5	No	No	1.5	No
5	Residential	City	LT-3	66.5	58.7	65	No	57.4	65	No	64.0	65	No	56.6	65	No	56.3	65	No	62.8	65	No	-2.1	-1.1	-1.2	No	1.5	No	No	1.5	No	No	1.5	No
6	Residential	City	LT-5	58.1	53.1	65	No	51.7	65	No	58.3	65	No	55.4	65	No	55.2	65	No	61.6	65	No	2.3	3.5	3.3	No	5.0	No	No	5.0	No	No	5.0	No
7	Residential	City	LT-5	58.1	62.2	65	No	60.8	65	No	67.4	65	Yes	61.3	65	No	60.5	65	No	67.1	65	Yes	-0.9	-0.3	-0.3	No	5.0	No	No	5.0	No	Yes	5.0	No
8	Residential	County	LT-5	58.1	65.0	55	Yes	63.6	45	Yes	70.2	60	Yes	63.9	55	Yes	62.8	45	Yes	69.4	60	Yes	-1.1	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
9	Residential	County	LT-5	58.1	66.3	55	Yes	65.0	45	Yes	71.6	60	Yes	65.3	55	Yes	64.2	45	Yes	70.8	60	Yes	-1.0	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
10	Residential	County	LT-5	58.1	66.6	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.5	45	Yes	71.1	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
11	Residential	County	LT-5	58.1	66.9	55	Yes	65.6	45	Yes	72.2	60	Yes	66.0	55	Yes	64.8	45	Yes	71.4	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
12	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.6	60	Yes	66.3	55	Yes	65.1	45	Yes	71.7	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
13	Residential	County	LT-5	58.1	67.7	55	Yes	66.4	45	Yes	73.0	60	Yes	66.7	55	Yes	65.5	45	Yes	72.1	60	Yes	-1.0	-0.9	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
14	Residential	County	LT-5	58.1	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	68.3	45	Yes	74.9	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
15	Residential	County	LT-5	58.1	72.5	55	Yes	71.2	45	Yes	77.8	60	Yes	71.3	55	Yes	70.0	45	Yes	76.6	60	Yes	-1.2	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
16	Residential	County	LT-5	58.1	70.4	55	Yes	69.0	45	Yes	75.7	60	Yes	69.0	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.4	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
17	Residential	County	LT-5	58.1	70.4	55	Yes	69.1	45	Yes	75.7	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
18	Residential	County	LT-5	58.1	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	67.4	55	Yes	66.1	45	Yes	72.7	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
19	Residential	County	LT-5	58.1	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	68.0	55	Yes	66.7	45	Yes	73.3	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
20	Residential	County	LT-5	58.1	69.3	55	Yes	68.0	45	Yes	74.6	60	Yes	68.2	55	Yes	66.9	45	Yes	73.5	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
21	Residential	County	LT-5	58.1	70.2	55	Yes	68.9	45	Yes	75.5	60	Yes	69.1	55	Yes	67.8	45	Yes	74.4	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
22	Residential	County	LT-5	58.1	70.0	55	Yes	68.6	45	Yes	75.3	60	Yes	68.8	55	Yes	67.5	45	Yes	74.2	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
23	Residential	County	LT-5	58.1	69.6	55	Yes	68.2	45	Yes	74.9	60	Yes	68.5	55	Yes	67.2	45	Yes	73.8	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
24	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.2	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
25	Residential	County	LT-5	58.1	71.1	55	Yes	69.8	45	Yes	76.4	60	Yes	69.9	55	Yes	68.6	45	Yes	75.3	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
26	Residential	County	LT-5	58.1	71.2	55	Yes	69.9	45	Yes	76.5	60	Yes	70.0	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.2	-1.2	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
27	Residential	County	LT-5	58.1	70.9	55	Yes	69.5	45	Yes	76.2	60	Yes	69.7	55	Yes	68.4	45	Yes	75.0	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
28	Residential	County	LT-5	58.1	72.0	55	Yes	70.7	45	Yes	77.3	60	Yes	70.7	55	Yes	69.4	45	Yes	76.0	60	Yes	-1.3	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
29	Residential	County	LT-4	66.1	68.8	55	Yes	67.4	45	Yes	74.1	60	Yes	68.3	55	Yes	67.0	45	Yes	73.6	60	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
30	Residential	County	LT-4	66.1	73.4	55	Yes	72.0	45	Yes	78.7	60	Yes	73.3	55	Yes	72.1	45	Yes	78.7	60	Yes	-0.1	0.1	0.0	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
31	Residential	County	LT-4	66.1	73.3	55	Yes																											

Opening Year 2028 Exterior Absolute Noise Impact Analysis - With Noise Barriers																																				
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)						Impact Analysis								
				Measured Ambient Noise Level (L ₉₀ , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn				
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?		
84	Residential	City	LT-3	66.5	46.2	65	No	44.9	65	No	51.5	65	No	54.3	65	No	54.2	65	No	60.6	65	No	8.1	9.3	9.1	No	1.5	No	No	1.5	No	No	1.5	Yes		
85	Residential	City	LT-3	66.5	66.7	65	Yes	65.4	65	Yes	72.0	65	Yes	66.2	65	Yes	64.9	65	No	71.5	65	Yes	-0.5	-0.5	-0.5	Yes	1.5	No	No	1.5	No	Yes	1.5	No		
86	Residential	City	LT-3	66.5	46.7	65	No	45.4	65	No	52.0	65	No	53.4	65	No	53.2	65	No	59.6	65	No	6.7	7.8	7.6	No	1.5	No	No	1.5	No	No	1.5	Yes		
87	Residential	City	LT-3	66.5	45.0	65	No	43.6	65	No	50.3	65	No	54.1	65	No	53.4	65	No	59.9	65	No	9.1	9.8	9.6	No	1.5	No	No	1.5	No	No	1.5	Yes		
88	Residential	City	LT-3	66.5	45.5	65	No	44.2	65	No	50.8	65	No	54.4	65	No	53.9	65	No	60.3	65	No	8.9	9.7	9.5	No	1.5	No	No	1.5	No	No	1.5	Yes		
89	Residential	City	LT-3	66.5	45.6	65	No	44.2	65	No	50.9	65	No	54.4	65	No	54.0	65	No	60.5	65	No	8.8	9.8	9.6	No	1.5	No	No	1.5	No	No	1.5	Yes		
90	Residential	City	LT-3	66.5	45.1	65	No	43.8	65	No	50.4	65	No	54.4	65	No	54.1	65	No	60.6	65	No	9.3	10.3	10.2	No	1.5	No	No	1.5	No	No	1.5	Yes		

Opening Year 2028 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis							
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.5	58.1	64.7	59.6	59.2	65.7	0.1	1.1	1.0	Yes	1.5	No	1.5	No	1.5	No
2	Residential	County	LT-3	66.5	58.4	57.0	63.7	58.1	57.8	64.3	-0.3	0.8	0.6	Yes	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	66.5	59.6	58.2	64.8	58.0	57.7	64.1	-1.6	-0.5	-0.7	Yes	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	57.0	55.6	62.3	57.5	57.1	63.6	0.5	1.5	1.3	No	1.5	No	1.5	No	1.5	No
5	Residential	City	LT-3	66.5	58.7	57.4	64.0	56.6	56.3	62.8	-2.1	-1.1	-1.2	No	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	53.1	51.7	58.3	55.4	55.2	61.6	2.3	3.5	3.3	No	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	62.2	60.8	67.4	61.3	60.5	67.1	-0.9	-0.3	-0.3	No	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	65.0	63.6	70.2	63.9	62.8	69.4	-1.1	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	66.3	65.0	71.6	65.3	64.2	70.8	-1.0	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	66.6	65.3	71.9	65.7	64.5	71.1	-0.9	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	66.9	65.6	72.2	66.0	64.8	71.4	-0.9	-0.8	-0.8	Yes	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	67.3	65.9	72.6	66.3	65.1	71.7	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	67.7	66.4	73.0	66.7	65.5	72.1	-1.0	-0.9	-0.9	Yes	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	70.7	69.4	76.0	69.5	68.3	74.9	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	72.5	71.2	77.8	71.3	70.0	76.6	-1.2	-1.2	-1.2	Yes	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	70.4	69.0	75.7	69.0	67.7	74.4	-1.4	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	70.4	69.1	75.7	69.1	67.8	74.4	-1.3	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	68.5	67.2	73.8	67.4	66.1	72.7	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	69.1	67.8	74.4	68.0	66.7	73.3	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	69.3	68.0	74.6	68.2	66.9	73.5	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	70.2	68.9	75.5	69.1	67.8	74.4	-1.1	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	70.0	68.6	75.3	68.8	67.5	74.2	-1.2	-1.1	-1.1	Yes	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	69.6	68.2	74.9	68.5	67.2	73.8	-1.1	-1.0	-1.1	Yes	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	71.1	69.7	76.4	69.9	68.6	75.2	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	71.1	69.8	76.4	69.9	68.6	75.3	-1.2	-1.2	-1.1	Yes	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	71.2	69.9	76.5	70.0	68.7	75.4	-1.2	-1.2	-1.1	Yes	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	70.9	69.5	76.2	69.7	68.4	75.0	-1.2	-1.1	-1.2	Yes	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	72.0	70.7	77.3	70.7	69.4	76.0	-1.3	-1.3	-1.3	Yes	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	68.8	67.4	74.1	68.3	67.0	73.6	-0.5	-0.4	-0.5	Yes	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	73.4	72.0	78.7	73.3	72.1	78.7	-0.1	0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	73.3	72.0	78.6	73.2	71.9	78.6	-0.1	-0.1	0.0	Yes	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	73.3	71.9	78.6	73.1	71.9	78.5	-0.2	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	70.8	69.4	76.1	70.4	69.1	75.7	-0.4	-0.3	-0.4	Yes	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	70.8	69.5	76.1	70.4	69.2	75.8	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	70.9	69.6	76.2	70.5	69.3	75.9	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	73.5	72.2	78.8	73.3	72.1	78.7	-0.2	-0.1	-0.1	Yes	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	69.6	68.3	74.9	69.1	67.9	74.5	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	69.2	67.8	74.5	68.7	67.4	74.1	-0.5	-0.4	-0.4	Yes	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	71.6	70.3	76.9	71.3	70.1	76.7	-0.3	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	71.4	70.0	76.7	71.2	69.9	76.6	-0.2	-0.1	-0.1	Yes	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	66.5	65.2	71.8	66.1	64.9	71.5	-0.4	-0.3	-0.3	Yes	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	65.9	64.5	71.1	65.4	64.3	70.9	-0.5	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	65.2	63.8	70.5	64.8	63.6	70.2	-0.4	-0.2	-0.3	Yes	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	64.6	63.3	69.9	64.3	63.2	69.7	-0.3	-0.1	-0.2	Yes	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	65.3	63.9	70.6	64.9	63.8	70.4	-0.4	-0.1	-0.2	Yes	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	64.5	63.2	69.8	64.2	63.0	69.6	-0.3	-0.2	-0.2	Yes	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	63.8	62.5	69.1	63.5	62.5	69.0	-0.3	0.0	-0.1	Yes	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	63.5	62.1	68.7	63.3	62.2	68.8	-0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
49	Residential	County	LT-4	66.1	62.2	60.9	67.5	62.2	61.2	67.8	0.0	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	61.9	60.6	67.2	62.0	61.1	67.7	0.1	0.5	0.5	Yes	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	66.1	61.6	60.2	66.9	61.9	61.1	67.6	0.3	0.9	0.7	Yes	1.5	No	1.5	No	1.5	No

Opening Year 2028 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT				WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis						
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime			Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Exceeds Standard?	Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
52	Residential	County	LT-1	61.2	55.6	54.3	60.9	54.0	53.7	60.1	-1.6	-0.6	-0.8	No	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	54.8	53.5	60.1	54.2	54.0	60.4	-0.6	0.5	0.3	No	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	66.8	65.4	72.1	65.6	64.4	71.0	-1.2	-1.0	-1.1	Yes	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	71.1	69.8	76.4	69.7	68.5	75.1	-1.4	-1.3	-1.3	Yes	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	72.3	71.0	77.6	68.8	67.5	74.1	-3.5	-3.5	-3.5	Yes	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	71.6	70.3	76.9	67.0	65.7	72.4	-4.6	-4.6	-4.5	Yes	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	72.3	71.0	77.6	67.4	66.1	72.7	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	71.2	69.9	76.5	66.3	64.9	71.6	-4.9	-5.0	-4.9	Yes	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	69.4	68.1	74.7	64.5	63.2	69.8	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	73.9	72.6	79.2	68.9	67.6	74.2	-5.0	-5.0	-5.0	Yes	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	75.2	73.8	80.5	70.1	68.7	75.4	-5.1	-5.1	-5.1	Yes	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	69.4	68.0	74.7	64.5	63.2	69.8	-4.9	-4.8	-4.9	Yes	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	71.2	69.9	76.5	66.3	65.0	71.6	-4.9	-4.9	-4.9	Yes	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	65.1	63.7	70.4	64.1	62.9	69.5	-1.0	-0.8	-0.9	Yes	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	61.4	60.1	66.7	60.8	59.6	66.2	-0.6	-0.5	-0.5	Yes	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	62.7	61.4	68.0	62.2	61.0	67.6	-0.5	-0.4	-0.4	Yes	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	58.5	57.1	63.8	58.2	57.1	63.7	-0.3	0.0	-0.1	Yes	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	56.4	55.1	61.7	56.5	55.3	61.9	0.1	0.2	0.2	Yes	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	54.0	52.7	59.3	55.1	54.3	60.8	1.1	1.6	1.5	Yes	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	67.5	66.1	72.8	62.7	61.4	68.0	-4.8	-4.7	-4.8	Yes	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	67.1	65.7	72.4	62.4	61.1	67.7	-4.7	-4.6	-4.7	Yes	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	66.5	65.1	71.7	61.9	60.6	67.2	-4.6	-4.5	-4.5	Yes	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	72.9	71.6	78.2	68.5	67.1	73.8	-4.4	-4.5	-4.4	Yes	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	74.0	72.7	79.3	69.8	68.5	75.1	-4.2	-4.2	-4.2	Yes	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	78.7	77.4	84.0	78.9	77.5	84.1	0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	64.1	62.7	69.4	62.0	60.6	67.3	-2.1	-2.1	-2.1	Yes	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	61.9	60.6	67.2	62.1	60.7	67.3	0.2	0.1	0.1	Yes	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	67.1	65.7	72.4	67.4	66.0	72.6	0.3	0.3	0.2	Yes	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	67.8	66.5	73.1	68.2	66.8	73.4	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	63.6	62.3	68.9	64.0	62.6	69.2	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	66.8	65.5	72.1	67.2	65.8	72.4	0.4	0.3	0.3	Yes	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	47.3	45.9	52.6	54.7	54.6	61.0	7.4	8.7	8.4	No	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	46.2	44.9	51.5	54.3	54.2	60.6	8.1	9.3	9.1	No	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	66.7	65.4	72.0	66.2	64.9	71.5	-0.5	-0.5	-0.5	Yes	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	46.7	45.4	52.0	53.4	53.2	59.6	6.7	7.8	7.6	No	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	45.0	43.6	50.3	54.1	53.4	59.9	9.1	9.8	9.6	No	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	45.5	44.2	50.8	54.4	53.9	60.3	8.9	9.7	9.5	No	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	45.6	44.2	50.9	54.4	54.0	60.5	8.8	9.8	9.6	No	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	45.1	43.8	50.4	54.4	54.1	60.6	9.3	10.3	10.2	No	1.5	Yes	1.5	Yes	1.5	Yes

Interim Year 2033 Exterior Absolute Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis											
					Modeled Noise Level	Daytime			Nighttime			Ldn			Modeled Noise Level	Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Exceeds Standard?	Daytime			Nighttime			Ldn		
						Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level		Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Exceeds Standard?					Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	
1	Residential	County	LT-3	66.5	59.8	55	Yes	58.4	45	Yes	65.0	60	Yes	61.7	55	Yes	60.9	45	Yes	67.4	60	Yes	1.9	2.5	2.4	Yes	1.5	Yes	Yes	1.5	Yes	Yes	1.5	Yes			
2	Residential	County	LT-3	66.5	58.7	55	Yes	57.3	45	Yes	64.0	60	Yes	59.3	55	Yes	58.8	45	Yes	65.3	60	Yes	0.6	1.5	1.3	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
3	Residential	County	LT-3	66.5	59.9	55	Yes	58.5	45	Yes	65.1	60	Yes	59.6	55	Yes	59.0	45	Yes	65.5	60	Yes	-0.3	0.5	0.4	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
4	Residential	City	LT-3	66.5	57.3	65	No	55.9	65	No	62.6	65	No	59.0	65	No	58.3	65	No	64.9	65	No	1.7	2.4	2.3	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes			
5	Residential	City	LT-3	66.5	59.1	65	No	57.7	65	No	64.3	65	No	59.1	65	No	58.6	65	No	65.1	65	Yes	0.0	0.9	0.8	No	1.5	No	No	1.5	No	Yes	1.5	No			
6	Residential	City	LT-5	58.1	53.4	65	No	52.0	65	No	58.6	65	No	56.0	65	No	55.7	65	No	62.1	65	No	2.6	3.7	3.5	No	5.0	No	No	5.0	No	No	5.0	No			
7	Residential	City	LT-5	58.1	62.5	65	No	61.1	65	No	67.7	65	Yes	61.6	65	No	60.6	65	No	67.2	65	Yes	-0.9	-0.5	-0.5	No	5.0	No	No	5.0	No	Yes	5.0	No			
8	Residential	County	LT-5	58.1	65.3	55	Yes	63.9	45	Yes	70.5	60	Yes	64.3	55	Yes	62.9	45	Yes	69.5	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
9	Residential	County	LT-5	58.1	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.3	45	Yes	70.9	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
10	Residential	County	LT-5	58.1	67.0	55	Yes	65.6	45	Yes	72.2	60	Yes	66.1	55	Yes	64.6	45	Yes	71.3	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
11	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.5	60	Yes	66.4	55	Yes	64.9	45	Yes	71.6	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
12	Residential	County	LT-5	58.1	67.6	55	Yes	66.2	45	Yes	72.9	60	Yes	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	-0.9	-0.9	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
13	Residential	County	LT-5	58.1	68.1	55	Yes	66.6	45	Yes	73.3	60	Yes	67.1	55	Yes	65.6	45	Yes	72.3	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
14	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.3	60	Yes	69.9	55	Yes	68.4	45	Yes	75.1	60	Yes	-1.2	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
15	Residential	County	LT-5	58.1	72.9	55	Yes	71.4	45	Yes	78.1	60	Yes	71.7	55	Yes	70.1	45	Yes	76.8	60	Yes	-1.2	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
16	Residential	County	LT-5	58.1	70.7	55	Yes	69.3	45	Yes	76.0	60	Yes	69.4	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.4	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
17	Residential	County	LT-5	58.1	70.8	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.5	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
18	Residential	County	LT-5	58.1	68.9	55	Yes	67.5	45	Yes	74.1	60	Yes	67.8	55	Yes	66.2	45	Yes	72.9	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
19	Residential	County	LT-5	58.1	69.5	55	Yes	68.1	45	Yes	74.7	60	Yes	68.4	55	Yes	66.8	45	Yes	73.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
20	Residential	County	LT-5	58.1	69.7	55	Yes	68.3	45	Yes	74.9	60	Yes	68.6	55	Yes	67.1	45	Yes	73.7	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
21	Residential	County	LT-5	58.1	70.6	55	Yes	69.2	45	Yes	75.8	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
22	Residential	County	LT-5	58.1	70.3	55	Yes	68.9	45	Yes	75.6	60	Yes	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
23	Residential	County	LT-5	58.1	69.9	55	Yes	68.5	45	Yes	75.2	60	Yes	68.9	55	Yes	67.3	45	Yes	74.0	60	Yes	-1.0	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
24	Residential	County	LT-5	58.1	71.4	55	Yes	70.0	45	Yes	76.7	60	Yes	70.3	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
25	Residential	County	LT-5	58.1	71.5	55	Yes	70.1	45	Yes	76.7	60	Yes	70.4	55	Yes	68.8	45	Yes	75.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
26	Residential	County	LT-5	58.1	71.6	55	Yes	70.2	45	Yes	76.8	60	Yes	70.5	55	Yes	68.9	45	Yes	75.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
27	Residential	County	LT-5	58.1	71.2	55	Yes	69.8	45	Yes	76.5	60	Yes	70.1	55	Yes	68.5	45	Yes	75.2	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
28	Residential	County	LT-5	58.1	72.4	55	Yes	71.0	45	Yes	77.6	60	Yes	71.1	55	Yes	69.6	45	Yes	76.3	60	Yes	-1.3	-1.4	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No			
29	Residential	County	LT-4	66.1	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	68.7	55	Yes	67.1	45	Yes	73.8	60	Yes	-0.5	-0.6	-0.6	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
30	Residential	County	LT-4	66.1	73.7	55	Yes	72.3	45	Yes	79.0	60	Yes	73.7	55	Yes	72.2	45	Yes	78.8	60	Yes	0.0	-0.1	-0.2	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No			
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Interim Year 2033 Exterior Absolute Noise Impact Analysis - Without Noise Barriers																																		
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis									
				Measured Ambient Noise Level (L ₉₀ , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn					Daytime			Nighttime			Ldn			
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Daytime	Nighttime	Ldn	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
83	Residential	City	LT-3	66.5	47.6	65	No	46.2	65	No	52.9	65	No	54.4	65	No	54.2	65	No	60.6	65	No	6.8	8.0	7.7	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
84	Residential	City	LT-3	66.5	46.6	65	No	45.2	65	No	51.8	65	No	53.9	65	No	53.8	65	No	60.2	65	No	7.3	8.6	8.4	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
85	Residential	City	LT-3	66.5	67.1	65	Yes	65.7	65	Yes	72.3	65	Yes	66.6	65	Yes	65.0	65	No	71.7	65	Yes	-0.5	-0.7	-0.6	Yes	1.5	No	No	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	47.1	65	No	45.7	65	No	52.3	65	No	53.3	65	No	53.1	65	No	59.5	65	No	6.2	7.4	7.2	No	1.5	Yes	No	1.5	Yes	No	1.5	No
87	Residential	City	LT-3	66.5	45.3	65	No	43.9	65	No	50.6	65	No	54.1	65	No	53.3	65	No	59.9	65	No	8.8	9.4	9.3	No	1.5	Yes	No	1.5	Yes	No	1.5	No
88	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.3	65	No	53.8	65	No	60.3	65	No	8.4	9.3	9.2	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
89	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.4	65	No	53.9	65	No	60.4	65	No	8.5	9.4	9.3	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
90	Residential	City	LT-3	66.5	45.5	65	No	44.0	65	No	50.7	65	No	54.4	65	No	54.0	65	No	60.5	65	No	8.9	10.0	9.8	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes

Interim Year 2033 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis						
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.8	58.4	65.0	61.7	60.9	67.4	1.9	2.5	2.4	1.5	Yes	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	66.5	58.7	57.3	64.0	59.3	58.8	65.3	0.6	1.5	1.3	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	66.5	59.9	58.5	65.1	59.6	59.0	65.5	-0.3	0.5	0.4	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	57.3	55.9	62.6	59.0	58.3	64.9	1.7	2.4	2.3	1.5	Yes	1.5	Yes	1.5	Yes
5	Residential	City	LT-3	66.5	59.1	57.7	64.3	59.1	58.6	65.1	0.0	0.9	0.8	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	53.4	52.0	58.6	56.0	55.7	62.1	2.6	3.7	3.5	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	62.5	61.1	67.7	61.6	60.6	67.2	-0.9	-0.5	-0.5	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	65.3	63.9	70.5	64.3	62.9	69.5	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	66.7	65.3	71.9	65.7	64.3	70.9	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	67.0	65.6	72.2	66.1	64.6	71.3	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	67.3	65.9	72.5	66.4	64.9	71.6	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	67.6	66.2	72.9	66.7	65.3	71.9	-0.9	-0.9	-1.0	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	68.1	66.6	73.3	67.1	65.6	72.3	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	71.1	69.7	76.3	69.9	68.4	75.1	-1.2	-1.3	-1.2	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	72.9	71.4	78.1	71.7	70.1	76.8	-1.2	-1.3	-1.3	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	70.7	69.3	76.0	69.4	67.9	74.6	-1.3	-1.4	-1.4	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	70.8	69.4	76.0	69.5	67.9	74.6	-1.3	-1.5	-1.4	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	68.9	67.5	74.1	67.8	66.2	72.9	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	69.5	68.1	74.7	68.4	66.8	73.5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	69.7	68.3	74.9	68.6	67.1	73.7	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	70.6	69.2	75.8	69.5	67.9	74.6	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	70.3	68.9	75.6	69.2	67.7	74.4	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	69.9	68.5	75.2	68.9	67.3	74.0	-1.0	-1.2	-1.2	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	71.4	70.0	76.7	70.3	68.7	75.4	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	71.5	70.1	76.7	70.4	68.8	75.5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	71.6	70.2	76.8	70.5	68.9	75.6	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	71.2	69.8	76.5	70.1	68.5	75.2	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	72.4	71.0	77.6	71.1	69.6	76.3	-1.3	-1.4	-1.3	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	69.2	67.7	74.4	68.7	67.1	73.8	-0.5	-0.6	-0.6	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	73.7	72.3	79.0	73.7	72.2	78.8	0.0	-0.1	-0.2	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	73.7	72.2	78.9	73.6	72.0	78.7	-0.1	-0.2	-0.2	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	73.6	72.2	78.9	73.5	71.9	78.6	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	71.1	69.7	76.4	70.8	69.2	75.9	-0.3	-0.5	-0.5	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	71.2	69.8	76.4	70.8	69.3	75.9	-0.4	-0.5	-0.5	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	71.3	69.9	76.5	70.9	69.3	76.0	-0.4	-0.6	-0.5	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	73.9	72.4	79.1	73.7	72.1	78.8	-0.2	-0.3	-0.3	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	70.0	68.5	75.2	69.5	68.0	74.6	-0.5	-0.5	-0.6	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	69.5	68.1	74.8	69.1	67.5	74.2	-0.4	-0.6	-0.6	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	72.0	70.5	77.2	71.7	70.1	76.8	-0.3	-0.4	-0.4	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	71.7	70.3	77.0	71.6	70.0	76.7	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	66.9	65.4	72.1	66.5	65.0	71.7	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	66.2	64.8	71.4	65.8	64.4	71.0	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	65.5	64.1	70.8	65.1	63.7	70.4	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	65.0	63.5	70.2	64.6	63.2	69.9	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	65.6	64.2	70.9	65.3	63.9	70.5	-0.3	-0.3	-0.4	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	64.9	63.4	70.1	64.5	63.1	69.8	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	64.2	62.7	69.4	63.9	62.6	69.2	-0.3	-0.1	-0.2	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	63.8	62.4	69.0	63.6	62.3	68.9	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No

Interim Year 2033 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis						
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
49	Residential	County	LT-4	66.1	62.6	61.1	67.8	62.5	61.3	67.9	-0.1	0.2	0.1	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	62.3	60.9	67.5	62.3	61.2	67.8	0.0	0.3	0.3	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	66.1	61.9	60.5	67.2	62.2	61.1	67.7	0.3	0.6	0.5	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	61.2	56.0	54.6	61.2	54.1	53.7	60.2	-1.9	-0.9	-1.0	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	55.2	53.8	60.4	54.3	54.0	60.4	-0.9	0.2	0.0	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	67.1	65.7	72.4	66.0	64.5	71.1	-1.1	-1.2	-1.3	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	71.5	70.0	76.7	70.1	68.6	75.2	-1.4	-1.4	-1.5	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	72.7	71.2	77.9	69.2	67.7	74.4	-3.5	-3.5	-3.5	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	72.0	70.5	77.2	67.4	66.0	72.7	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	72.7	71.2	77.9	67.7	66.4	73.0	-5.0	-4.8	-4.9	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	71.6	70.2	76.8	66.6	65.3	71.9	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	69.8	68.4	75.0	64.9	63.5	70.1	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	74.3	72.8	79.5	69.2	67.9	74.5	-5.1	-4.9	-5.0	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	75.5	74.1	80.8	70.4	69.1	75.7	-5.1	-5.0	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	69.7	68.3	75.0	64.8	63.5	70.1	-4.9	-4.8	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	71.6	70.2	76.8	66.6	65.3	71.9	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	65.4	64.0	70.7	64.5	63.0	69.7	-0.9	-1.0	-1.0	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	61.8	60.4	67.0	61.2	59.8	66.4	-0.6	-0.6	-0.6	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	63.1	61.7	68.3	62.6	61.1	67.7	-0.5	-0.6	-0.6	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	58.8	57.4	64.1	58.5	57.2	63.8	-0.3	-0.2	-0.3	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	56.8	55.4	62.0	56.8	55.5	62.1	0.0	0.1	0.1	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	54.4	53.0	59.6	55.4	54.4	60.9	1.0	1.4	1.3	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	67.8	66.4	73.1	63.1	61.7	68.3	-4.7	-4.7	-4.8	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	67.4	66.0	72.7	62.7	61.3	68.0	-4.7	-4.7	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	66.8	65.4	72.0	62.2	60.9	67.5	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	73.3	71.9	78.5	68.8	67.5	74.1	-4.5	-4.4	-4.4	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	74.4	73.0	79.6	70.1	68.8	75.4	-4.3	-4.2	-4.2	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	79.1	77.7	84.3	78.9	77.5	84.1	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	64.4	63.0	69.7	62.1	60.7	67.4	-2.3	-2.3	-2.3	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	62.3	60.8	67.5	62.1	60.7	67.3	-0.2	-0.1	-0.2	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	67.4	66.0	72.7	67.4	66.0	72.7	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	68.2	66.8	73.4	68.2	66.8	73.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	64.0	62.6	69.2	64.0	62.6	69.2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	67.2	65.8	72.4	67.2	65.8	72.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	47.6	46.2	52.9	54.4	54.2	60.6	6.8	8.0	7.7	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	46.6	45.2	51.8	53.9	53.8	60.2	7.3	8.6	8.4	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	67.1	65.7	72.3	66.6	65.0	71.7	-0.5	-0.7	-0.6	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	47.1	45.7	52.3	53.3	53.1	59.5	6.2	7.4	7.2	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	45.3	43.9	50.6	54.1	53.3	59.9	8.8	9.4	9.3	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	45.9	44.5	51.1	54.3	53.8	60.3	8.4	9.3	9.2	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	45.9	44.5	51.1	54.4	53.9	60.4	8.5	9.4	9.3	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	45.5	44.0	50.7	54.4	54.0	60.5	8.9	10.0	9.8	1.5	Yes	1.5	Yes	1.5	Yes

Interim Year 2033 Exterior Absolute Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
					Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.8	55	Yes	58.4	45	Yes	65.0	60	Yes	61.7	55	Yes	60.9	45	Yes	67.4	60	Yes	1.9	2.5	2.4	Yes	1.5	Yes	Yes	1.5	Yes	Yes	1.5	Yes
2	Residential	County	LT-3	66.5	58.7	55	Yes	57.3	45	Yes	64.0	60	Yes	59.3	55	Yes	58.8	45	Yes	65.3	60	Yes	0.6	1.5	1.3	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
3	Residential	County	LT-3	66.5	59.9	55	Yes	58.5	45	Yes	65.1	60	Yes	59.6	55	Yes	59.0	45	Yes	65.5	60	Yes	-0.3	0.5	0.4	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
4	Residential	City	LT-3	66.5	57.3	65	No	55.9	65	No	62.6	65	No	59.0	65	No	58.3	65	No	64.9	65	No	1.7	2.4	2.3	No	1.5	Yes	No	1.5	Yes	No	1.5	Yes
5	Residential	City	LT-3	66.5	59.1	65	No	57.7	65	No	64.3	65	No	59.0	65	No	58.4	65	No	64.9	65	No	-0.1	0.7	0.6	No	1.5	No	No	1.5	No	No	1.5	No
6	Residential	City	LT-5	58.1	53.4	65	No	52.0	65	No	58.6	65	No	56.1	65	No	55.7	65	No	62.2	65	No	2.7	3.7	3.6	No	5.0	No	No	5.0	No	No	5.0	No
7	Residential	City	LT-5	58.1	62.5	65	No	61.1	65	No	67.7	65	Yes	61.6	65	No	60.6	65	No	67.2	65	Yes	-0.9	-0.5	-0.5	No	5.0	No	No	5.0	No	Yes	5.0	No
8	Residential	County	LT-5	58.1	65.3	55	Yes	63.9	45	Yes	70.5	60	Yes	64.3	55	Yes	62.9	45	Yes	69.5	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
9	Residential	County	LT-5	58.1	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	65.7	55	Yes	64.3	45	Yes	70.9	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
10	Residential	County	LT-5	58.1	67.0	55	Yes	65.6	45	Yes	72.2	60	Yes	66.1	55	Yes	64.6	45	Yes	71.3	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
11	Residential	County	LT-5	58.1	67.3	55	Yes	65.9	45	Yes	72.5	60	Yes	66.4	55	Yes	64.9	45	Yes	71.6	60	Yes	-0.9	-1.0	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
12	Residential	County	LT-5	58.1	67.6	55	Yes	66.2	45	Yes	72.9	60	Yes	66.7	55	Yes	65.3	45	Yes	71.9	60	Yes	-0.9	-0.9	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
13	Residential	County	LT-5	58.1	68.1	55	Yes	66.6	45	Yes	73.3	60	Yes	67.1	55	Yes	65.6	45	Yes	72.3	60	Yes	-1.0	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
14	Residential	County	LT-5	58.1	71.1	55	Yes	69.7	45	Yes	76.3	60	Yes	69.9	55	Yes	68.4	45	Yes	75.1	60	Yes	-1.2	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
15	Residential	County	LT-5	58.1	72.9	55	Yes	71.4	45	Yes	78.1	60	Yes	71.7	55	Yes	70.1	45	Yes	76.8	60	Yes	-1.2	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
16	Residential	County	LT-5	58.1	70.7	55	Yes	69.3	45	Yes	76.0	60	Yes	69.4	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.4	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
17	Residential	County	LT-5	58.1	70.8	55	Yes	69.4	45	Yes	76.0	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.3	-1.5	-1.4	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
18	Residential	County	LT-5	58.1	68.9	55	Yes	67.5	45	Yes	74.1	60	Yes	67.8	55	Yes	66.2	45	Yes	72.9	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
19	Residential	County	LT-5	58.1	69.5	55	Yes	68.1	45	Yes	74.7	60	Yes	68.4	55	Yes	66.8	45	Yes	73.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
20	Residential	County	LT-5	58.1	69.7	55	Yes	68.3	45	Yes	74.9	60	Yes	68.6	55	Yes	67.1	45	Yes	73.7	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
21	Residential	County	LT-5	58.1	70.6	55	Yes	69.2	45	Yes	75.8	60	Yes	69.5	55	Yes	67.9	45	Yes	74.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
22	Residential	County	LT-5	58.1	70.3	55	Yes	68.9	45	Yes	75.6	60	Yes	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	-1.1	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
23	Residential	County	LT-5	58.1	69.9	55	Yes	68.5	45	Yes	75.2	60	Yes	68.9	55	Yes	67.3	45	Yes	74.0	60	Yes	-1.0	-1.2	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
24	Residential	County	LT-5	58.1	71.4	55	Yes	70.0	45	Yes	76.7	60	Yes	70.3	55	Yes	68.7	45	Yes	75.4	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
25	Residential	County	LT-5	58.1	71.5	55	Yes	70.1	45	Yes	76.7	60	Yes	70.4	55	Yes	68.8	45	Yes	75.5	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
26	Residential	County	LT-5	58.1	71.6	55	Yes	70.2	45	Yes	76.8	60	Yes	70.5	55	Yes	68.9	45	Yes	75.6	60	Yes	-1.1	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
27	Residential	County	LT-5	58.1	71.2	55	Yes	69.8	45	Yes	76.5	60	Yes	70.1	55	Yes	68.5	45	Yes	75.2	60	Yes	-1.1	-1.3	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
28	Residential	County	LT-5	58.1	72.4	55	Yes	71.0	45	Yes	77.6	60	Yes	71.1	55	Yes	69.6	45	Yes	76.3	60	Yes	-1.3	-1.4	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
29	Residential	County	LT-4	66.1	69.2	55	Yes	67.7	45	Yes	74.4	60	Yes	68.7	55	Yes	67.1	45	Yes	73.8	60	Yes	-0.5	-0.6	-0.6	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
30	Residential	County	LT-4	66.1	73.7	55	Yes	72.3	45	Yes	79.0	60	Yes	73.7	55	Yes	72.2	45	Yes	78.8	60	Yes	0.0	-0.1	-0.2	Yes	1.5	No	Yes	1.5	No			

Interim Year 2033 Exterior Absolute Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis									
				Measured Ambient Noise Level (L _{Aeq} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
83	Residential	City	LT-3	66.5	47.6	65	No	46.2	65	No	52.9	65	No	54.3	65	No	54.1	65	No	60.6	65	No	6.7	7.9	7.7	No	1.5	No	No	1.5	No	No	1.5	Yes
84	Residential	City	LT-3	66.5	46.6	65	No	45.2	65	No	51.8	65	No	53.8	65	No	53.6	65	No	60.1	65	No	7.2	8.4	8.3	No	1.5	No	No	1.5	No	No	1.5	Yes
85	Residential	City	LT-3	66.5	67.1	65	Yes	65.7	65	Yes	72.3	65	Yes	66.6	65	Yes	65.0	65	No	71.7	65	Yes	-0.5	-0.7	-0.6	Yes	1.5	No	No	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	47.1	65	No	45.7	65	No	52.3	65	No	53.3	65	No	53.1	65	No	59.5	65	No	6.2	7.4	7.2	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	45.3	65	No	43.9	65	No	50.6	65	No	54.1	65	No	53.3	65	No	59.9	65	No	8.8	9.4	9.3	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.3	65	No	53.8	65	No	60.3	65	No	8.4	9.3	9.2	No	1.5	No	No	1.5	No	No	1.5	Yes
89	Residential	City	LT-3	66.5	45.9	65	No	44.5	65	No	51.1	65	No	54.4	65	No	53.9	65	No	60.4	65	No	8.5	9.4	9.3	No	1.5	No	No	1.5	No	No	1.5	Yes
90	Residential	City	LT-3	66.5	45.5	65	No	44.0	65	No	50.7	65	No	54.4	65	No	54.0	65	No	60.5	65	No	8.9	10.0	9.8	No	1.5	No	No	1.5	No	No	1.5	Yes

Interim Year 2033 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT				WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			COMPARISON (With BIG Minus Without BIG)					
				Measured Ambient Noise Level (L _{dnr} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	59.8	58.4	65.0	57.8	57.3	63.8	-2.0	-1.1	-1.2	1.5	No	1.5	No	1.5	No
2	Residential	County	LT-3	66.5	58.7	57.3	64.0	57.4	57.0	63.5	-1.3	-0.3	-0.5	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	66.5	59.9	58.5	65.1	56.9	56.5	62.9	-3.0	-2.0	-2.2	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	57.3	55.9	62.6	56.6	56.2	62.6	-0.7	0.3	0.0	1.5	No	1.5	No	1.5	No
5	Residential	City	LT-3	66.5	59.1	57.7	64.3	56.7	56.3	62.8	-2.4	-1.4	-1.5	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	53.4	52.0	58.6	55.5	55.2	61.7	2.1	3.2	3.1	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	62.5	61.1	67.7	61.6	60.6	67.1	-0.9	-0.5	-0.6	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	65.3	63.9	70.5	64.3	62.9	69.5	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	66.7	65.3	71.9	65.7	64.3	70.9	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	67.0	65.6	72.2	66.1	64.6	71.3	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	67.3	65.9	72.5	66.4	64.9	71.6	-0.9	-1.0	-0.9	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	67.6	66.2	72.9	66.7	65.3	71.9	-0.9	-0.9	-1.0	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	68.1	66.6	73.3	67.1	65.6	72.3	-1.0	-1.0	-1.0	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	71.1	69.7	76.3	69.9	68.4	75.1	-1.2	-1.3	-1.2	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	72.9	71.4	78.1	71.7	70.1	76.8	-1.2	-1.3	-1.3	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	70.7	69.3	76.0	69.4	67.9	74.6	-1.3	-1.4	-1.4	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	70.8	69.4	76.0	69.5	67.9	74.6	-1.3	-1.5	-1.4	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	68.9	67.5	74.1	67.8	66.2	72.9	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	69.5	68.1	74.7	68.4	66.8	73.5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	69.7	68.3	74.9	68.6	67.1	73.7	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	70.6	69.2	75.8	69.5	67.9	74.6	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	70.3	68.9	75.6	69.2	67.7	74.4	-1.1	-1.2	-1.2	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	69.9	68.5	75.2	68.9	67.3	74.0	-1.0	-1.2	-1.2	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	71.4	70.0	76.7	70.3	68.7	75.4	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	71.5	70.1	76.7	70.4	68.8	75.5	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	71.6	70.2	76.8	70.5	68.9	75.6	-1.1	-1.3	-1.2	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	71.2	69.8	76.5	70.1	68.5	75.2	-1.1	-1.3	-1.3	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	72.4	71.0	77.6	71.1	69.6	76.3	-1.3	-1.4	-1.3	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	69.2	67.7	74.4	68.7	67.1	73.8	-0.5	-0.6	-0.6	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	73.7	72.3	79.0	73.7	72.2	78.8	0.0	-0.1	-0.2	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	73.7	72.2	78.9	73.6	72.0	78.7	-0.1	-0.2	-0.2	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	73.6	72.2	78.9	73.5	71.9	78.6	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	71.1	69.7	76.4	70.8	69.2	75.9	-0.3	-0.5	-0.5	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	71.2	69.8	76.4	70.8	69.3	75.9	-0.4	-0.5	-0.5	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	71.3	69.9	76.5	70.9	69.3	76.0	-0.4	-0.6	-0.5	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	73.9	72.4	79.1	73.7	72.1	78.8	-0.2	-0.3	-0.3	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	70.0	68.5	75.2	69.5	68.0	74.6	-0.5	-0.5	-0.6	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	69.5	68.1	74.8	69.1	67.5	74.2	-0.4	-0.6	-0.6	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	72.0	70.5	77.2	71.7	70.1	76.8	-0.3	-0.4	-0.4	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	71.7	70.3	77.0	71.6	70.0	76.7	-0.1	-0.3	-0.3	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	66.9	65.4	72.1	66.5	65.0	71.7	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	66.2	64.8	71.4	65.8	64.4	71.0	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	65.5	64.1	70.8	65.1	63.7	70.4	-0.4	-0.4	-0.4	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	65.0	63.5	70.2	64.6	63.2	69.9	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	65.6	64.2	70.9	65.3	63.9	70.5	-0.3	-0.3	-0.4	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	64.9	63.4	70.1	64.5	63.1	69.8	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	64.2	62.7	69.4	63.9	62.6	69.2	-0.3	-0.1	-0.2	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	63.8	62.4	69.0	63.6	62.3	68.9	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No

Interim Year 2033 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT				WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			COMPARISON (With BIG Minus Without BIG)					
				Measured Ambient Noise Level (L _{dnr} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
49	Residential	County	LT-4	66.1	62.6	61.1	67.8	62.5	61.3	67.9	-0.1	0.2	0.1	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	62.3	60.9	67.5	62.3	61.2	67.8	0.0	0.3	0.3	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	66.1	61.9	60.5	67.2	62.2	61.1	67.7	0.3	0.6	0.5	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	61.2	56.0	54.6	61.2	54.1	53.7	60.2	-1.9	-0.9	-1.0	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	55.2	53.8	60.4	54.3	54.0	60.4	-0.9	0.2	0.0	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	67.1	65.7	72.4	66.0	64.5	71.1	-1.1	-1.2	-1.3	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	71.5	70.0	76.7	70.1	68.6	75.2	-1.4	-1.4	-1.5	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	72.7	71.2	77.9	69.2	67.7	74.4	-3.5	-3.5	-3.5	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	72.0	70.5	77.2	67.4	66.0	72.7	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	72.7	71.2	77.9	67.7	66.4	73.0	-5.0	-4.8	-4.9	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	71.6	70.2	76.8	66.6	65.3	71.9	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	69.8	68.4	75.0	64.9	63.5	70.1	-4.9	-4.9	-4.9	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	74.3	72.8	79.5	69.2	67.9	74.5	-5.1	-4.9	-5.0	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	75.5	74.1	80.8	70.4	69.1	75.7	-5.1	-5.0	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	69.7	68.3	75.0	64.8	63.5	70.1	-4.9	-4.8	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	71.6	70.2	76.8	66.6	65.3	71.9	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	65.4	64.0	70.7	64.5	63.0	69.7	-0.9	-1.0	-1.0	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	61.8	60.4	67.0	61.2	59.8	66.4	-0.6	-0.6	-0.6	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	63.1	61.7	68.3	62.6	61.1	67.7	-0.5	-0.6	-0.6	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	58.8	57.4	64.1	58.5	57.2	63.8	-0.3	-0.2	-0.3	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	56.8	55.4	62.0	56.9	55.5	62.1	0.1	0.1	0.1	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	54.4	53.0	59.6	55.4	54.4	60.9	1.0	1.4	1.3	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	67.8	66.4	73.1	63.1	61.7	68.3	-4.7	-4.7	-4.8	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	67.4	66.0	72.7	62.7	61.3	68.0	-4.7	-4.7	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	66.8	65.4	72.0	62.2	60.9	67.5	-4.6	-4.5	-4.5	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	73.3	71.9	78.5	68.8	67.5	74.1	-4.5	-4.4	-4.4	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	74.4	73.0	79.6	70.1	68.8	75.4	-4.3	-4.2	-4.2	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	79.1	77.7	84.3	78.9	77.5	84.1	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	64.4	63.0	69.7	62.1	60.7	67.4	-2.3	-2.3	-2.3	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	62.3	60.8	67.5	62.1	60.7	67.3	-0.2	-0.1	-0.2	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	67.4	66.0	72.7	67.4	66.0	72.7	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	68.2	66.8	73.4	68.2	66.8	73.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	64.0	62.6	69.2	64.0	62.6	69.2	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	67.2	65.8	72.4	67.2	65.8	72.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	47.6	46.2	52.9	54.7	54.6	61.0	7.1	8.4	8.1	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	46.6	45.2	51.8	54.4	54.2	60.7	7.8	9.0	8.9	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	67.1	65.7	72.3	66.6	65.0	71.7	-0.5	-0.7	-0.6	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	47.1	45.7	52.3	53.6	53.2	59.7	6.5	7.5	7.4	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	45.3	43.9	50.6	54.3	53.5	60.0	9.0	9.6	9.4	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	45.9	44.5	51.1	54.5	53.9	60.4	8.6	9.4	9.3	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	45.9	44.5	51.1	54.5	54.0	60.5	8.6	9.5	9.4	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	45.5	44.0	50.7	54.6	54.2	60.6	9.1	10.2	9.9	1.5	Yes	1.5	Yes	1.5	Yes

Horizon Year 2048 Exterior Absolute Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{den} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					Modeled Noise Level	Daytime		Exceeds Standard?	Modeled Noise Level	Nighttime		Exceeds Standard?	Ldn		Modeled Noise Level	Daytime		Exceeds Standard?	Modeled Noise Level	Nighttime		Exceeds Standard?				Ldn		Modeled Noise Level	Daytime	Nighttime	Ldn	Exceeds Standard?	Daytime		Nighttime			Ldn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
						Noise Standard (dBA)				Noise Standard (dBA)			Noise Standard (dBA)			Noise Standard (dBA)				Noise Standard (dBA)			Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)							Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)		Noise Standard (dBA)

Horizon Year 2048 Exterior Absolute Noise Impact Analysis - Without Noise Barriers																																		
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT										WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis								
				Measured Ambient Noise Level (L _{day} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
83	Residential	City	LT-3	66.5	48.7	65	No	47.2	65	No	53.8	65	No	54.5	65	No	54.3	65	No	60.8	65	No	5.8	7.1	7.0	No	1.5	No	No	1.5	No	No	1.5	Yes
84	Residential	City	LT-3	66.5	47.6	65	No	46.1	65	No	52.8	65	No	54.0	65	No	53.9	65	No	60.3	65	No	6.4	7.8	7.5	No	1.5	No	No	1.5	No	No	1.5	Yes
85	Residential	City	LT-3	66.5	68.1	65	Yes	66.6	65	Yes	73.3	65	Yes	67.6	65	Yes	66.2	65	Yes	72.8	65	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
86	Residential	City	LT-3	66.5	48.1	65	No	46.6	65	No	53.3	65	No	53.5	65	No	53.2	65	No	59.7	65	No	5.4	6.6	6.4	No	1.5	No	No	1.5	No	No	1.5	No
87	Residential	City	LT-3	66.5	46.4	65	No	44.9	65	No	51.5	65	No	54.2	65	No	53.5	65	No	60.0	65	No	7.8	8.6	8.5	No	1.5	No	No	1.5	No	No	1.5	No
88	Residential	City	LT-3	66.5	46.9	65	No	45.4	65	No	52.1	65	No	54.4	65	No	53.9	65	No	60.4	65	No	7.5	8.5	8.3	No	1.5	No	No	1.5	No	No	1.5	Yes
89	Residential	City	LT-3	66.5	47.0	65	No	45.5	65	No	52.1	65	No	54.5	65	No	54.0	65	No	60.5	65	No	7.5	8.5	8.4	No	1.5	No	No	1.5	No	No	1.5	Yes
90	Residential	City	LT-3	66.5	46.5	65	No	45.0	65	No	51.7	65	No	54.5	65	No	54.1	65	No	60.6	65	No	8.0	9.1	8.9	No	1.5	No	No	1.5	No	No	1.5	Yes

Horizon Year 2048 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis					
					Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
														Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	60.9	59.4	66.0	62.2	61.6	68.1	1.3	2.2	2.1	1.5	No	1.5	Yes	1.5	Yes
2	Residential	County	LT-3	66.5	59.8	58.3	64.9	59.6	59.2	65.7	-0.2	0.9	0.8	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	66.5	61.0	59.5	66.1	60.0	59.5	66.0	-1.0	0.0	-0.1	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	58.4	56.9	63.6	59.5	58.9	65.4	1.1	2.0	1.8	1.5	No	1.5	Yes	1.5	Yes
5	Residential	City	LT-3	66.5	60.1	58.6	65.3	59.1	58.7	65.2	-1.0	0.1	-0.1	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	54.5	53.0	59.6	56.3	56.0	62.4	1.8	3.0	2.8	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	63.6	62.1	68.7	62.3	61.5	68.0	-1.3	-0.6	-0.7	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	66.4	64.9	71.5	65.2	64.0	70.6	-1.2	-0.9	-0.9	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	67.7	66.2	72.9	66.7	65.4	72.0	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	68.0	66.5	73.2	67.0	65.7	72.4	-1.0	-0.8	-0.8	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	68.3	66.9	73.5	67.4	66.1	72.7	-0.9	-0.8	-0.8	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	68.7	67.2	73.9	67.7	66.4	73.0	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	69.1	67.6	74.3	68.1	66.8	73.4	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	72.1	70.6	77.3	70.9	69.6	76.2	-1.2	-1.0	-1.1	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	73.9	72.4	79.1	72.7	71.3	77.9	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	71.8	70.3	77.0	70.4	69.1	75.7	-1.4	-1.2	-1.3	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	71.8	70.4	77.0	70.5	69.1	75.8	-1.3	-1.3	-1.2	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	69.9	68.5	75.1	68.8	67.4	74.0	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	70.5	69.0	75.7	69.4	68.0	74.6	-1.1	-1.0	-1.1	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	70.7	69.2	75.9	69.6	68.2	74.9	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	71.6	70.1	76.8	70.5	69.1	75.8	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	71.4	69.9	76.5	70.3	68.9	75.5	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	71.0	69.5	76.1	69.9	68.5	75.1	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	72.5	71.0	77.6	71.3	69.9	76.6	-1.2	-1.1	-1.0	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	72.5	71.0	77.7	71.4	70.0	76.6	-1.1	-1.0	-1.1	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	72.7	71.2	77.8	71.5	70.1	76.7	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	72.3	70.8	77.5	71.1	69.7	76.4	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	73.4	71.9	78.6	72.2	70.8	77.4	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	70.2	68.7	75.4	69.7	68.3	74.9	-0.5	-0.4	-0.5	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	74.8	73.3	79.9	74.7	73.3	80.0	-0.1	0.0	0.1	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	74.7	73.2	79.9	74.6	73.2	79.8	-0.1	0.0	-0.1	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	74.7	73.2	79.8	74.5	73.1	79.7	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	72.2	70.7	77.3	71.8	70.4	77.0	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	72.2	70.7	77.4	71.8	70.4	77.1	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	72.3	70.8	77.5	71.9	70.5	77.2	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	74.9	73.4	80.1	74.7	73.3	80.0	-0.2	-0.1	-0.1	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	71.0	69.5	76.2	70.5	69.1	75.8	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	70.6	69.1	75.7	70.1	68.7	75.3	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	73.0	71.5	78.2	72.7	71.3	77.9	-0.3	-0.2	-0.3	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	72.8	71.3	77.9	72.6	71.2	77.8	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	67.9	66.4	73.1	67.4	66.1	72.7	-0.5	-0.3	-0.4	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	67.3	65.8	72.4	66.8	65.5	72.1	-0.5	-0.3	-0.3	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	66.6	65.1	71.7	66.1	64.8	71.4	-0.5	-0.3	-0.3	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	66.0	64.5	71.2	65.5	64.3	70.9	-0.5	-0.2	-0.3	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	66.7	65.2	71.9	66.3	64.9	71.6	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	65.9	64.4	71.1	65.5	64.2	70.8	-0.4	-0.2	-0.3	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	65.2	63.7	70.4	64.8	63.6	70.2	-0.4	-0.1	-0.2	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	64.9	63.4	70.0	64.5	63.3	69.9	-0.4	-0.1	-0.1	1.5	No	1.5	No	1.5	No

Horizon Year 2048 Exterior Incremental Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT				WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis					
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
49	Residential	County	LT-4	66.1	63.6	62.1	68.8	63.4	62.2	68.8	-0.2	0.1	0.0	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	63.3	61.8	68.5	63.1	62.1	68.6	-0.2	0.3	0.1	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	66.1	63.0	61.5	68.2	63.0	61.9	68.5	0.0	0.4	0.3	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	61.2	57.0	55.5	62.2	54.4	54.0	60.5	-2.6	-1.5	-1.7	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	56.2	54.8	61.4	54.6	54.3	60.7	-1.6	-0.5	-0.7	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	68.2	66.7	73.3	67.0	65.9	72.4	-1.2	-0.8	-0.9	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	72.5	71.0	77.7	71.1	69.9	76.5	-1.4	-1.1	-1.2	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	73.7	72.2	78.9	70.1	68.8	75.5	-3.6	-3.4	-3.4	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	73.0	71.5	78.2	68.4	66.9	73.6	-4.6	-4.6	-4.6	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	73.7	72.2	78.9	68.7	67.3	73.9	-5.0	-4.9	-5.0	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	72.7	71.2	77.8	67.6	66.1	72.8	-5.1	-5.1	-5.0	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	70.8	69.3	76.0	65.9	64.4	71.0	-4.9	-4.9	-5.0	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	75.3	73.8	80.5	70.2	68.8	75.4	-5.1	-5.0	-5.1	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	76.6	75.1	81.7	71.4	69.9	76.6	-5.2	-5.2	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	70.8	69.3	75.9	65.8	64.4	71.0	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	72.6	71.2	77.8	67.6	66.2	72.8	-5.0	-5.0	-5.0	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	66.5	65.0	71.6	65.5	64.2	70.8	-1.0	-0.8	-0.8	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	62.8	61.3	68.0	62.1	60.8	67.4	-0.7	-0.5	-0.6	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	64.1	62.6	69.3	63.5	62.2	68.8	-0.6	-0.4	-0.5	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	59.9	58.4	65.1	59.4	58.2	64.8	-0.5	-0.2	-0.3	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	57.8	56.3	63.0	57.8	56.5	63.1	0.0	0.2	0.1	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	55.4	54.0	60.6	56.1	55.1	61.7	0.7	1.1	1.1	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	68.9	67.4	74.0	64.1	62.6	69.3	-4.8	-4.8	-4.7	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	68.5	67.0	73.6	63.7	62.2	68.9	-4.8	-4.8	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	67.9	66.4	73.0	63.2	61.8	68.4	-4.7	-4.6	-4.6	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	74.3	72.9	79.5	69.8	68.3	75.0	-4.5	-4.6	-4.5	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	75.4	74.0	80.6	71.1	69.6	76.3	-4.3	-4.4	-4.3	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	80.1	78.6	85.3	79.9	78.4	85.1	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	65.5	64.0	70.7	63.1	61.7	68.3	-2.4	-2.3	-2.4	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	63.3	61.8	68.5	63.1	61.6	68.3	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	68.5	67.0	73.6	68.5	67.0	73.6	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	69.2	67.7	74.4	69.2	67.7	74.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	65.1	63.6	70.2	65.0	63.5	70.2	-0.1	-0.1	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	68.2	66.7	73.4	68.3	66.8	73.4	0.1	0.1	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	48.7	47.2	53.8	54.5	54.3	60.8	5.8	7.1	7.0	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	47.6	46.1	52.8	54.0	53.9	60.3	6.4	7.8	7.5	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	68.1	66.6	73.3	67.6	66.2	72.8	-0.5	-0.4	-0.5	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	48.1	46.6	53.3	53.5	53.2	59.7	5.4	6.6	6.4	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	46.4	44.9	51.5	54.2	53.5	60.0	7.8	8.6	8.5	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	46.9	45.4	52.1	54.4	53.9	60.4	7.5	8.5	8.3	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	47.0	45.5	52.1	54.5	54.0	60.5	7.5	8.5	8.4	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	46.5	45.0	51.7	54.5	54.1	60.6	8.0	9.1	8.9	1.5	Yes	1.5	Yes	1.5	Yes

Horizon Year 2048 Exterior Absolute Noise Impact Analysis - With Noise Barriers																																		
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{day} , L _{eq})	NO PROJECT									WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
					Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	60.9	55	Yes	59.4	45	Yes	66.0	60	Yes	58.1	55	Yes	57.7	45	Yes	64.2	60	Yes	-2.8	-1.7	-1.8	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
2	Residential	County	LT-3	66.5	59.8	55	Yes	58.3	45	Yes	64.9	60	Yes	57.7	55	Yes	57.4	45	Yes	63.9	60	Yes	-2.1	-0.9	-1.0	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
3	Residential	County	LT-3	66.5	61.0	55	Yes	59.5	45	Yes	66.1	60	Yes	57.2	55	Yes	56.9	45	Yes	63.3	60	Yes	-3.8	-2.6	-2.8	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
4	Residential	City	LT-3	66.5	58.4	65	No	56.9	65	No	63.6	65	No	57.0	65	No	56.6	65	No	63.0	65	No	-1.4	-0.3	-0.6	No	1.5	No	No	1.5	No	No	1.5	No
5	Residential	City	LT-3	66.5	60.1	65	No	58.6	65	No	65.3	65	Yes	56.4	65	No	56.1	65	No	62.6	65	No	-3.7	-2.5	-2.7	No	1.5	No	No	1.5	No	No	1.5	No
6	Residential	City	LT-5	58.1	54.5	65	No	53.0	65	No	59.6	65	No	55.1	65	No	54.8	65	No	61.3	65	No	0.6	1.8	1.7	No	5.0	No	No	5.0	No	No	5.0	No
7	Residential	City	LT-5	58.1	63.6	65	No	62.1	65	No	68.7	65	Yes	62.3	65	No	61.5	65	No	68.0	65	Yes	-1.3	-0.6	-0.7	No	5.0	No	No	5.0	No	Yes	5.0	No
8	Residential	County	LT-5	58.1	66.4	55	Yes	64.9	45	Yes	71.5	60	Yes	65.2	55	Yes	64.0	45	Yes	70.6	60	Yes	-1.2	-0.9	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
9	Residential	County	LT-5	58.1	67.7	55	Yes	66.2	45	Yes	72.9	60	Yes	66.7	55	Yes	65.4	45	Yes	72.0	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
10	Residential	County	LT-5	58.1	68.0	55	Yes	66.5	45	Yes	73.2	60	Yes	67.0	55	Yes	65.7	45	Yes	72.4	60	Yes	-1.0	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
11	Residential	County	LT-5	58.1	68.3	55	Yes	66.9	45	Yes	73.5	60	Yes	67.4	55	Yes	66.1	45	Yes	72.7	60	Yes	-0.9	-0.8	-0.8	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
12	Residential	County	LT-5	58.1	68.7	55	Yes	67.2	45	Yes	73.9	60	Yes	67.7	55	Yes	66.4	45	Yes	73.0	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
13	Residential	County	LT-5	58.1	69.1	55	Yes	67.6	45	Yes	74.3	60	Yes	68.1	55	Yes	66.8	45	Yes	73.4	60	Yes	-1.0	-0.8	-0.9	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
14	Residential	County	LT-5	58.1	72.1	55	Yes	70.6	45	Yes	77.3	60	Yes	70.9	55	Yes	69.6	45	Yes	76.2	60	Yes	-1.2	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
15	Residential	County	LT-5	58.1	73.9	55	Yes	72.4	45	Yes	79.1	60	Yes	72.7	55	Yes	71.3	45	Yes	77.9	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
16	Residential	County	LT-5	58.1	71.8	55	Yes	70.3	45	Yes	77.0	60	Yes	70.4	55	Yes	69.1	45	Yes	75.7	60	Yes	-1.4	-1.2	-1.3	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
17	Residential	County	LT-5	58.1	71.8	55	Yes	70.4	45	Yes	77.0	60	Yes	70.5	55	Yes	69.1	45	Yes	75.8	60	Yes	-1.3	-1.3	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
18	Residential	County	LT-5	58.1	69.9	55	Yes	68.5	45	Yes	75.1	60	Yes	68.8	55	Yes	67.4	45	Yes	74.0	60	Yes	-1.1	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
19	Residential	County	LT-5	58.1	70.5	55	Yes	69.0	45	Yes	75.7	60	Yes	69.4	55	Yes	68.0	45	Yes	74.6	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
20	Residential	County	LT-5	58.1	70.7	55	Yes	69.2	45	Yes	75.9	60	Yes	69.6	55	Yes	68.2	45	Yes	74.9	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
21	Residential	County	LT-5	58.1	71.6	55	Yes	70.1	45	Yes	76.8	60	Yes	70.5	55	Yes	69.1	45	Yes	75.8	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
22	Residential	County	LT-5	58.1	71.4	55	Yes	69.9	45	Yes	76.5	60	Yes	70.3	55	Yes	68.9	45	Yes	75.5	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
23	Residential	County	LT-5	58.1	71.0	55	Yes	69.5	45	Yes	76.1	60	Yes	69.9	55	Yes	68.5	45	Yes	75.1	60	Yes	-1.1	-1.0	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
24	Residential	County	LT-5	58.1	72.5	55	Yes	71.0	45	Yes	77.6	60	Yes	71.3	55	Yes	69.9	45	Yes	76.6	60	Yes	-1.2	-1.1	-1.0	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
25	Residential	County	LT-5	58.1	72.5	55	Yes	71.0	45	Yes	77.7	60	Yes	71.4	55	Yes	70.0	45	Yes	76.6	60	Yes	-1.1	-1.0	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
26	Residential	County	LT-5	58.1	72.7	55	Yes	71.2	45	Yes	77.8	60	Yes	71.5	55	Yes	70.1	45	Yes	76.7	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
27	Residential	County	LT-5	58.1	72.3	55	Yes	70.8	45	Yes	77.5	60	Yes	71.1	55	Yes	69.7	45	Yes	76.4	60	Yes	-1.2	-1.1	-1.1	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
28	Residential	County	LT-5	58.1	73.4	55	Yes	71.9	45	Yes	78.6	60	Yes	72.2	55	Yes	70.8	45	Yes	77.4	60	Yes	-1.2	-1.1	-1.2	Yes	5.0	No	Yes	5.0	No	Yes	5.0	No
29	Residential	County	LT-4	66.1	70.2	55	Yes	68.7	45	Yes	75.4	60	Yes	69.7	55	Yes	68.3	45	Yes	74.9	60	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
30	Residential	County	LT-4	66.1	74.8	55	Yes	73.3	45	Yes	79.9	60	Yes	74.7	55	Yes	73.3	45	Yes	80.0	60	Yes	-0.1	0.0	0.1	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No
31	Residential	County	LT-4	66.1	74.7	55	Yes	73.2	45	Yes	79.9	60	Yes																					

Horizon Year 2048 Exterior Absolute Noise Impact Analysis - With Noise Barriers																																			
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT											WITH PROJECT									COMPARISON (With BIG Minus Without BIG)			Impact Analysis								
				Measured Ambient Noise Level (L _{day} , L _{eq})	Daytime			Nighttime			Ldn			Daytime			Nighttime			Ldn			Daytime	Nighttime	Ldn	Daytime			Nighttime			Ldn			
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?				Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	Exceeds Standard?	Incremental Criteria	Impact?	
83	Residential	City	LT-3	66.5	48.7	65	No	47.2	65	No	53.8	65	No	54.8	65	No	54.7	65	No	61.1	65	No	6.1	7.5	7.3	No	1.5	No	No	1.5	No	No	1.5	Yes	
84	Residential	City	LT-3	66.5	47.6	65	No	46.1	65	No	52.8	65	No	54.5	65	No	54.3	65	No	60.8	65	No	6.9	8.2	8.0	No	1.5	No	No	1.5	No	No	1.5	Yes	
85	Residential	City	LT-3	66.5	68.1	65	Yes	66.6	65	Yes	73.3	65	Yes	67.6	65	Yes	66.2	65	Yes	72.8	65	Yes	-0.5	-0.4	-0.5	Yes	1.5	No	Yes	1.5	No	Yes	1.5	No	
86	Residential	City	LT-3	66.5	48.1	65	No	46.6	65	No	53.3	65	No	53.8	65	No	53.5	65	No	59.9	65	No	5.7	6.9	6.6	No	1.5	No	No	1.5	No	No	1.5	No	
87	Residential	City	LT-3	66.5	46.4	65	No	44.9	65	No	51.5	65	No	54.4	65	No	53.7	65	No	60.2	65	No	8.0	8.8	8.7	No	1.5	No	No	1.5	No	No	1.5	No	
88	Residential	City	LT-3	66.5	46.9	65	No	45.4	65	No	52.1	65	No	54.6	65	No	54.1	65	No	60.6	65	No	7.7	8.7	8.5	No	1.5	No	No	1.5	No	No	1.5	Yes	
89	Residential	City	LT-3	66.5	47.0	65	No	45.5	65	No	52.1	65	No	54.7	65	No	54.2	65	No	60.7	65	No	7.7	8.7	8.6	No	1.5	No	No	1.5	No	No	1.5	Yes	
90	Residential	City	LT-3	66.5	46.5	65	No	45.0	65	No	51.7	65	No	54.7	65	No	54.3	65	No	60.8	65	No	8.2	9.3	9.1	No	1.5	No	No	1.5	No	No	1.5	Yes	

Horizon Year 2048 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis						
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	60.9	59.4	66.0	58.1	57.7	64.2	-2.8	-1.7	-1.8	1.5	No	1.5	No	1.5	No
2	Residential	County	LT-3	66.5	59.8	58.3	64.9	57.7	57.4	63.9	-2.1	-0.9	-1.0	1.5	No	1.5	No	1.5	No
3	Residential	County	LT-3	66.5	61.0	59.5	66.1	57.2	56.9	63.3	-3.8	-2.6	-2.8	1.5	No	1.5	No	1.5	No
4	Residential	City	LT-3	66.5	58.4	56.9	63.6	57.0	56.6	63.0	-1.4	-0.3	-0.6	1.5	No	1.5	No	1.5	No
5	Residential	City	LT-3	66.5	60.1	58.6	65.3	56.4	56.1	62.6	-3.7	-2.5	-2.7	1.5	No	1.5	No	1.5	No
6	Residential	City	LT-5	58.1	54.5	53.0	59.6	55.1	54.8	61.3	0.6	1.8	1.7	5.0	No	5.0	No	5.0	No
7	Residential	City	LT-5	58.1	63.6	62.1	68.7	62.3	61.5	68.0	-1.3	-0.6	-0.7	5.0	No	5.0	No	5.0	No
8	Residential	County	LT-5	58.1	66.4	64.9	71.5	65.2	64.0	70.6	-1.2	-0.9	-0.9	5.0	No	5.0	No	5.0	No
9	Residential	County	LT-5	58.1	67.7	66.2	72.9	66.7	65.4	72.0	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
10	Residential	County	LT-5	58.1	68.0	66.5	73.2	67.0	65.7	72.4	-1.0	-0.8	-0.8	5.0	No	5.0	No	5.0	No
11	Residential	County	LT-5	58.1	68.3	66.9	73.5	67.4	66.1	72.7	-0.9	-0.8	-0.8	5.0	No	5.0	No	5.0	No
12	Residential	County	LT-5	58.1	68.7	67.2	73.9	67.7	66.4	73.0	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
13	Residential	County	LT-5	58.1	69.1	67.6	74.3	68.1	66.8	73.4	-1.0	-0.8	-0.9	5.0	No	5.0	No	5.0	No
14	Residential	County	LT-5	58.1	72.1	70.6	77.3	70.9	69.6	76.2	-1.2	-1.0	-1.1	5.0	No	5.0	No	5.0	No
15	Residential	County	LT-5	58.1	73.9	72.4	79.1	72.7	71.3	77.9	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
16	Residential	County	LT-5	58.1	71.8	70.3	77.0	70.4	69.1	75.7	-1.4	-1.2	-1.3	5.0	No	5.0	No	5.0	No
17	Residential	County	LT-5	58.1	71.8	70.4	77.0	70.5	69.1	75.8	-1.3	-1.3	-1.2	5.0	No	5.0	No	5.0	No
18	Residential	County	LT-5	58.1	69.9	68.5	75.1	68.8	67.4	74.0	-1.1	-1.1	-1.1	5.0	No	5.0	No	5.0	No
19	Residential	County	LT-5	58.1	70.5	69.0	75.7	69.4	68.0	74.6	-1.1	-1.0	-1.1	5.0	No	5.0	No	5.0	No
20	Residential	County	LT-5	58.1	70.7	69.2	75.9	69.6	68.2	74.9	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
21	Residential	County	LT-5	58.1	71.6	70.1	76.8	70.5	69.1	75.8	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
22	Residential	County	LT-5	58.1	71.4	69.9	76.5	70.3	68.9	75.5	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
23	Residential	County	LT-5	58.1	71.0	69.5	76.1	69.9	68.5	75.1	-1.1	-1.0	-1.0	5.0	No	5.0	No	5.0	No
24	Residential	County	LT-5	58.1	72.5	71.0	77.6	71.3	69.9	76.6	-1.2	-1.1	-1.0	5.0	No	5.0	No	5.0	No
25	Residential	County	LT-5	58.1	72.5	71.0	77.7	71.4	70.0	76.6	-1.1	-1.0	-1.1	5.0	No	5.0	No	5.0	No
26	Residential	County	LT-5	58.1	72.7	71.2	77.8	71.5	70.1	76.7	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
27	Residential	County	LT-5	58.1	72.3	70.8	77.5	71.1	69.7	76.4	-1.2	-1.1	-1.1	5.0	No	5.0	No	5.0	No
28	Residential	County	LT-5	58.1	73.4	71.9	78.6	72.2	70.8	77.4	-1.2	-1.1	-1.2	5.0	No	5.0	No	5.0	No
29	Residential	County	LT-4	66.1	70.2	68.7	75.4	69.7	68.3	74.9	-0.5	-0.4	-0.5	1.5	No	1.5	No	1.5	No
30	Residential	County	LT-4	66.1	74.8	73.3	79.9	74.7	73.3	80.0	-0.1	0.0	0.1	1.5	No	1.5	No	1.5	No
31	Residential	County	LT-4	66.1	74.7	73.2	79.9	74.6	73.2	79.8	-0.1	0.0	-0.1	1.5	No	1.5	No	1.5	No
32	Residential	County	LT-4	66.1	74.7	73.2	79.8	74.5	73.1	79.7	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
33	Residential	County	LT-4	66.1	72.2	70.7	77.3	71.8	70.4	77.0	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
34	Residential	County	LT-4	66.1	72.2	70.7	77.4	71.8	70.4	77.1	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
35	Residential	County	LT-4	66.1	72.3	70.8	77.5	71.9	70.5	77.2	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	74.9	73.4	80.1	74.7	73.3	80.0	-0.2	-0.1	-0.1	5.0	No	5.0	No	5.0	No
37	Residential	County	LT-4	66.1	71.0	69.5	76.2	70.5	69.1	75.8	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
38	Residential	County	LT-4	66.1	70.6	69.1	75.7	70.1	68.7	75.3	-0.5	-0.4	-0.4	1.5	No	1.5	No	1.5	No
39	Residential	County	LT-4	66.1	73.0	71.5	78.2	72.7	71.3	77.9	-0.3	-0.2	-0.3	1.5	No	1.5	No	1.5	No
40	Residential	County	LT-4	66.1	72.8	71.3	77.9	72.6	71.2	77.8	-0.2	-0.1	-0.1	1.5	No	1.5	No	1.5	No
41	Residential	County	LT-4	66.1	67.9	66.4	73.1	67.4	66.1	72.7	-0.5	-0.3	-0.4	1.5	No	1.5	No	1.5	No
42	Residential	County	LT-4	66.1	67.3	65.8	72.4	66.8	65.5	72.1	-0.5	-0.3	-0.3	1.5	No	1.5	No	1.5	No
43	Residential	County	LT-4	66.1	66.6	65.1	71.7	66.1	64.8	71.4	-0.5	-0.3	-0.3	1.5	No	1.5	No	1.5	No
44	Residential	County	LT-4	66.1	66.0	64.5	71.2	65.5	64.3	70.9	-0.5	-0.2	-0.3	1.5	No	1.5	No	1.5	No
45	Residential	County	LT-4	66.1	66.7	65.2	71.9	66.3	64.9	71.6	-0.4	-0.3	-0.3	1.5	No	1.5	No	1.5	No
46	Residential	County	LT-4	66.1	65.9	64.4	71.1	65.5	64.2	70.8	-0.4	-0.2	-0.3	1.5	No	1.5	No	1.5	No
47	Residential	County	LT-4	66.1	65.2	63.7	70.4	64.8	63.6	70.2	-0.4	-0.1	-0.2	1.5	No	1.5	No	1.5	No
48	Residential	County	LT-4	66.1	64.9	63.4	70.0	64.5	63.3	69.9	-0.4	-0.1	-0.1	1.5	No	1.5	No	1.5	No

Horizon Year 2048 Exterior Incremental Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	NO PROJECT			WITH PROJECT			COMPARISON (With BIG Minus Without BIG)			FICAN Incremental Increase Impact Analysis						
				Measured Ambient Noise Level (L _{dn} , L _{eq})	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime	Nighttime	Ldn	Daytime		Nighttime		Ldn	
					Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level	Modeled Noise Level				Incremental Criteria	Impact?	Incremental Criteria	Impact?	Incremental Criteria	Impact?
49	Residential	County	LT-4	66.1	63.6	62.1	68.8	63.4	62.2	68.8	-0.2	0.1	0.0	1.5	No	1.5	No	1.5	No
50	Residential	County	LT-4	66.1	63.3	61.8	68.5	63.1	62.1	68.6	-0.2	0.3	0.1	1.5	No	1.5	No	1.5	No
51	Residential	County	LT-4	66.1	63.0	61.5	68.2	63.0	61.9	68.5	0.0	0.4	0.3	1.5	No	1.5	No	1.5	No
52	Residential	County	LT-1	61.2	57.0	55.5	62.2	54.4	54.0	60.5	-2.6	-1.5	-1.7	3.0	No	3.0	No	3.0	No
53	Residential	County	LT-1	61.2	56.2	54.8	61.4	54.6	54.3	60.7	-1.6	-0.5	-0.7	3.0	No	3.0	No	3.0	No
54	Residential	County	LT-2	77.2	68.2	66.7	73.3	67.0	65.9	72.4	-1.2	-0.8	-0.9	1.5	No	1.5	No	1.5	No
55	Residential	County	LT-2	77.2	72.5	71.0	77.7	71.1	69.9	76.5	-1.4	-1.1	-1.2	1.5	No	1.5	No	1.5	No
56	Residential	County	LT-2	77.2	73.7	72.2	78.9	70.1	68.8	75.5	-3.6	-3.4	-3.4	1.5	No	1.5	No	1.5	No
57	Residential	County	LT-2	77.2	73.0	71.5	78.2	68.4	66.9	73.6	-4.6	-4.6	-4.6	1.5	No	1.5	No	1.5	No
58	Residential	County	LT-2	77.2	73.7	72.2	78.9	68.7	67.3	73.9	-5.0	-4.9	-5.0	1.5	No	1.5	No	1.5	No
59	Residential	County	LT-2	77.2	72.7	71.2	77.8	67.6	66.1	72.8	-5.1	-5.1	-5.0	1.5	No	1.5	No	1.5	No
60	Residential	County	LT-2	77.2	70.8	69.3	76.0	65.9	64.4	71.0	-4.9	-4.9	-5.0	1.5	No	1.5	No	1.5	No
61	Residential	County	LT-2	77.2	75.3	73.8	80.5	70.2	68.8	75.4	-5.1	-5.0	-5.1	1.5	No	1.5	No	1.5	No
62	Residential	County	LT-2	77.2	76.6	75.1	81.7	71.4	69.9	76.6	-5.2	-5.2	-5.1	1.5	No	1.5	No	1.5	No
63	Residential	County	LT-2	77.2	70.8	69.3	75.9	65.8	64.4	71.0	-5.0	-4.9	-4.9	1.5	No	1.5	No	1.5	No
64	Residential	County	LT-2	77.2	72.6	71.2	77.8	67.6	66.2	72.8	-5.0	-5.0	-5.0	1.5	No	1.5	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	66.5	65.0	71.6	65.5	64.2	70.8	-1.0	-0.8	-0.8	5.0	No	5.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	62.8	61.3	68.0	62.1	60.8	67.4	-0.7	-0.5	-0.6	5.0	No	5.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	64.1	62.6	69.3	63.5	62.2	68.8	-0.6	-0.4	-0.5	5.0	No	5.0	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	59.9	58.4	65.1	59.4	58.2	64.8	-0.5	-0.2	-0.3	5.0	No	5.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	57.8	56.3	63.0	57.8	56.5	63.1	0.0	0.2	0.1	3.0	No	3.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	55.4	54.0	60.6	56.1	55.1	61.7	0.7	1.1	1.1	3.0	No	3.0	No	3.0	No
71	Residential	County	LT-2	77.2	68.9	67.4	74.0	64.1	62.6	69.3	-4.8	-4.8	-4.7	1.5	No	1.5	No	1.5	No
72	Residential	County	LT-2	77.2	68.5	67.0	73.6	63.7	62.2	68.9	-4.8	-4.8	-4.7	1.5	No	1.5	No	1.5	No
73	Residential	County	LT-2	77.2	67.9	66.4	73.0	63.2	61.8	68.4	-4.7	-4.6	-4.6	1.5	No	1.5	No	1.5	No
74	Residential	County	LT-2	77.2	74.3	72.9	79.5	69.8	68.3	75.0	-4.5	-4.6	-4.5	1.5	No	1.5	No	1.5	No
75	Residential	County	LT-2	77.2	75.4	74.0	80.6	71.1	69.6	76.3	-4.3	-4.4	-4.3	1.5	No	1.5	No	1.5	No
76	Residential	County	LT-2	77.2	80.1	78.6	85.3	79.9	78.4	85.1	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
77	Residential	County	LT-2	77.2	65.5	64.0	70.7	63.1	61.7	68.3	-2.4	-2.3	-2.4	1.5	No	1.5	No	1.5	No
78	Residential	County	LT-2	77.2	63.3	61.8	68.5	63.1	61.6	68.3	-0.2	-0.2	-0.2	1.5	No	1.5	No	1.5	No
79	Residential	County	LT-2	77.2	68.5	67.0	73.6	68.5	67.0	73.6	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
80	Residential	County	LT-2	77.2	69.2	67.7	74.4	69.2	67.7	74.4	0.0	0.0	0.0	1.5	No	1.5	No	1.5	No
81	Residential	County	LT-2	77.2	65.1	63.6	70.2	65.0	63.6	70.2	-0.1	0.0	0.0	1.5	No	1.5	No	1.5	No
82	Residential	County	LT-2	77.2	68.2	66.7	73.4	68.3	66.8	73.4	0.1	0.1	0.0	1.5	No	1.5	No	1.5	No
83	Residential	City	LT-3	66.5	48.7	47.2	53.8	54.8	54.7	61.1	6.1	7.5	7.3	1.5	Yes	1.5	Yes	1.5	Yes
84	Residential	City	LT-3	66.5	47.6	46.1	52.8	54.5	54.3	60.8	6.9	8.2	8.0	1.5	Yes	1.5	Yes	1.5	Yes
85	Residential	City	LT-3	66.5	68.1	66.6	73.3	67.6	66.2	72.8	-0.5	-0.4	-0.5	1.5	No	1.5	No	1.5	No
86	Residential	City	LT-3	66.5	48.1	46.6	53.3	53.8	53.5	59.9	5.7	6.9	6.6	1.5	Yes	1.5	Yes	1.5	Yes
87	Residential	City	LT-3	66.5	46.4	44.9	51.5	54.4	53.7	60.2	8.0	8.8	8.7	1.5	Yes	1.5	Yes	1.5	Yes
88	Residential	City	LT-3	66.5	46.9	45.4	52.1	54.6	54.1	60.6	7.7	8.7	8.5	1.5	Yes	1.5	Yes	1.5	Yes
89	Residential	City	LT-3	66.5	47.0	45.5	52.1	54.7	54.2	60.7	7.7	8.7	8.6	1.5	Yes	1.5	Yes	1.5	Yes
90	Residential	City	LT-3	66.5	46.5	45.0	51.7	54.7	54.3	60.8	8.2	9.3	9.1	1.5	Yes	1.5	Yes	1.5	Yes

Existing Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Exterior Noise	Interior Noise					
			Ldn	Windows Open			Windows Closed		
				Ldn			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
1	Residential	County	64.5	54.5	45	Yes	36.5	45	No
2	Residential	County	63.4	53.4	45	Yes	35.4	45	No
3	Residential	County	64.6	54.6	45	Yes	36.6	45	No
4	Residential	City	62.0	52.0	45	Yes	34.0	45	No
5	Residential	City	63.7	53.7	45	Yes	35.7	45	No
6	Residential	City	58.1	48.1	45	Yes	30.1	45	No
7	Residential	City	67.2	57.2	45	Yes	39.2	45	No
8	Residential	County	70.0	60.0	45	Yes	42.0	45	No
9	Residential	County	71.3	61.3	45	Yes	43.3	45	No
10	Residential	County	71.6	61.6	45	Yes	43.6	45	No
11	Residential	County	71.9	61.9	45	Yes	43.9	45	No
12	Residential	County	72.3	62.3	45	Yes	44.3	45	No
13	Residential	County	72.7	62.7	45	Yes	44.7	45	No
14	Residential	County	75.7	65.7	45	Yes	47.7	45	Yes
15	Residential	County	77.5	67.5	45	Yes	49.5	45	Yes
16	Residential	County	75.4	65.4	45	Yes	47.4	45	Yes
17	Residential	County	75.4	65.4	45	Yes	47.4	45	Yes
18	Residential	County	73.5	63.5	45	Yes	45.5	45	Yes
19	Residential	County	74.1	64.1	45	Yes	46.1	45	Yes
20	Residential	County	74.3	64.3	45	Yes	46.3	45	Yes
21	Residential	County	75.2	65.2	45	Yes	47.2	45	Yes
22	Residential	County	75.0	65.0	45	Yes	47.0	45	Yes
23	Residential	County	74.6	64.6	45	Yes	46.6	45	Yes
24	Residential	County	76.1	66.1	45	Yes	48.1	45	Yes
25	Residential	County	76.1	66.1	45	Yes	48.1	45	Yes
26	Residential	County	76.2	66.2	45	Yes	48.2	45	Yes

Existing Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Exterior Noise	Interior Noise					
			Ldn	Windows Open			Windows Closed		
				Ldn			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
27	Residential	County	75.9	65.9	45	Yes	47.9	45	Yes
28	Residential	County	77.0	67.0	45	Yes	49.0	45	Yes
29	Residential	County	73.8	63.8	45	Yes	45.8	45	Yes
30	Residential	County	78.4	68.4	45	Yes	50.4	45	Yes
31	Residential	County	78.3	68.3	45	Yes	50.3	45	Yes
32	Residential	County	78.3	68.3	45	Yes	50.3	45	Yes
33	Residential	County	75.8	65.8	45	Yes	47.8	45	Yes
34	Residential	County	75.8	65.8	45	Yes	47.8	45	Yes
35	Residential	County	75.9	65.9	45	Yes	47.9	45	Yes
36 (Jasper Park)	Park/Recreation	County	78.5	68.5	-	No	50.5	-	No
37	Residential	County	74.6	64.6	45	Yes	46.6	45	Yes
38	Residential	County	74.2	64.2	45	Yes	46.2	45	Yes
39	Residential	County	76.6	66.6	45	Yes	48.6	45	Yes
40	Residential	County	76.4	66.4	45	Yes	48.4	45	Yes
41	Residential	County	71.5	61.5	45	Yes	43.5	45	No
42	Residential	County	70.9	60.9	45	Yes	42.9	45	No
43	Residential	County	70.2	60.2	45	Yes	42.2	45	No
44	Residential	County	69.6	59.6	45	Yes	41.6	45	No
45	Residential	County	70.3	60.3	45	Yes	42.3	45	No
46	Residential	County	69.5	59.5	45	Yes	41.5	45	No
47	Residential	County	68.8	58.8	45	Yes	40.8	45	No
48	Residential	County	68.5	58.5	45	Yes	40.5	45	No
49	Residential	County	67.2	57.2	45	Yes	39.2	45	No
50	Residential	County	66.9	56.9	45	Yes	38.9	45	No
51	Residential	County	66.6	56.6	45	Yes	38.6	45	No
52	Residential	County	60.6	50.6	45	Yes	32.6	45	No

Existing Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Exterior Noise	Interior Noise					
			Ldn	Windows Open			Windows Closed		
				Ldn			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
53	Residential	County	59.8	49.8	45	Yes	31.8	45	No
54	Residential	County	71.8	61.8	45	Yes	43.8	45	No
55	Residential	County	76.1	66.1	45	Yes	48.1	45	Yes
56	Residential	County	77.3	67.3	45	Yes	49.3	45	Yes
57	Residential	County	76.6	66.6	45	Yes	48.6	45	Yes
58	Residential	County	77.3	67.3	45	Yes	49.3	45	Yes
59	Residential	County	76.2	66.2	45	Yes	48.2	45	Yes
60	Residential	County	74.4	64.4	45	Yes	46.4	45	Yes
61	Residential	County	78.9	68.9	45	Yes	50.9	45	Yes
62	Residential	County	80.2	70.2	45	Yes	52.2	45	Yes
63	Residential	County	74.4	64.4	45	Yes	46.4	45	Yes
64	Residential	County	76.2	66.2	45	Yes	48.2	45	Yes
65 (Lenwood Elementary School)	School	County	70.1	60.1	45	Yes	42.1	45	No
66 (Lenwood Park)	Park/Recreation	County	66.4	56.4	-	No	38.4	-	No
67 (Missionary Baptist Church)	Church	County	67.7	57.7	45	Yes	39.7	45	No
68 (Saint Phillip Church)	Church	County	63.5	53.5	45	Yes	35.5	45	No
69 (Ingels School)	School	City	61.4	51.4	45	Yes	33.4	45	No
70 (Grandview Baptist Church)	Church	County	59.0	49.0	45	Yes	31.0	45	No
71	Residential	County	72.5	62.5	45	Yes	44.5	45	No
72	Residential	County	72.1	62.1	45	Yes	44.1	45	No
73	Residential	County	71.5	61.5	45	Yes	43.5	45	No
74	Residential	County	77.9	67.9	45	Yes	49.9	45	Yes
75	Residential	County	79.0	69.0	45	Yes	51.0	45	Yes
76	Residential	County	83.7	73.7	45	Yes	55.7	45	Yes
77	Residential	County	69.1	59.1	45	Yes	41.1	45	No
78	Residential	County	66.9	56.9	45	Yes	38.9	45	No

Existing Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Exterior Noise	Interior Noise					
			Ldn	Windows Open			Windows Closed		
				Ldn			Ldn		
				Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
79	Residential	County	72.1	62.1	45	Yes	44.1	45	No
80	Residential	County	72.8	62.8	45	Yes	44.8	45	No
81	Residential	County	68.6	58.6	45	Yes	40.6	45	No
82	Residential	County	71.8	61.8	45	Yes	43.8	45	No
83	Residential	City	52.3	42.3	45	No	24.3	45	No
84	Residential	City	51.2	41.2	45	No	23.2	45	No
85	Residential	City	71.7	61.7	45	Yes	43.7	45	No
86	Residential	City	51.7	41.7	45	No	23.7	45	No
87	Residential	City	50.0	40.0	45	No	22.0	45	No
88	Residential	City	50.5	40.5	45	No	22.5	45	No
89	Residential	City	50.6	40.6	45	No	22.6	45	No
90	Residential	City	50.1	40.1	45	No	22.1	45	No

Construction Year 2026 (South Mainlines) Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN INCREMENTAL INCREASE IMPACT ANALYSIS			NO PROJECT			WITH PROJECT			Comparison	FICAN INCREMENTAL INCREASE IMPACT ANALYSIS		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	54.5	45	Yes	53.3	45	Yes	-1.2	Yes	1.5	No	36.5	45	No	35.3	45	No	-1.2	No	1.5	No
2	Residential	County	LT-3	66.5	53.4	45	Yes	49.4	45	Yes	-4.0	Yes	1.5	No	35.4	45	No	31.4	45	No	-4.0	No	1.5	No
3	Residential	County	LT-3	66.5	54.6	45	Yes	49.8	45	Yes	-4.8	Yes	1.5	No	36.6	45	No	31.8	45	No	-4.8	No	1.5	No
4	Residential	City	LT-3	66.5	52.0	45	Yes	47.3	45	Yes	-4.7	Yes	1.5	No	34.0	45	No	29.3	45	No	-4.7	No	1.5	No
5	Residential	City	LT-3	66.5	53.7	45	Yes	46.3	45	Yes	-7.4	Yes	1.5	No	35.7	45	No	28.3	45	No	-7.4	No	1.5	No
6	Residential	City	LT-5	58.1	48.1	45	Yes	45.4	45	Yes	-2.7	Yes	5.0	No	30.1	45	No	27.4	45	No	-2.7	No	5.0	No
7	Residential	City	LT-5	58.1	57.2	45	Yes	55.2	45	Yes	-2.0	Yes	5.0	No	39.2	45	No	37.2	45	No	-2.0	No	5.0	No
8	Residential	County	LT-5	58.1	60.0	45	Yes	60.1	45	Yes	0.1	Yes	5.0	No	42.0	45	No	42.1	45	No	0.1	No	5.0	No
9	Residential	County	LT-5	58.1	61.4	45	Yes	61.5	45	Yes	0.1	Yes	5.0	No	43.4	45	No	43.5	45	No	0.1	No	5.0	No
10	Residential	County	LT-5	58.1	61.6	45	Yes	61.7	45	Yes	0.1	Yes	5.0	No	43.6	45	No	43.7	45	No	0.1	No	5.0	No
11	Residential	County	LT-5	58.1	62.0	45	Yes	62.0	45	Yes	0.0	Yes	5.0	No	44.0	45	No	44.0	45	No	0.0	No	5.0	No
12	Residential	County	LT-5	58.1	62.3	45	Yes	62.3	45	Yes	0.0	Yes	5.0	No	44.3	45	No	44.3	45	No	0.0	No	5.0	No
13	Residential	County	LT-5	58.1	62.7	45	Yes	62.7	45	Yes	0.0	Yes	5.0	No	44.7	45	No	44.7	45	No	0.0	No	5.0	No
14	Residential	County	LT-5	58.1	65.7	45	Yes	65.8	45	Yes	0.1	Yes	5.0	No	47.7	45	Yes	47.8	45	Yes	0.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	67.5	45	Yes	67.5	45	Yes	0.0	Yes	5.0	No	49.5	45	Yes	49.5	45	Yes	0.0	Yes	5.0	No
16	Residential	County	LT-5	58.1	65.4	45	Yes	65.4	45	Yes	0.0	Yes	5.0	No	47.4	45	Yes	47.4	45	Yes	0.0	Yes	5.0	No
17	Residential	County	LT-5	58.1	65.5	45	Yes	65.5	45	Yes	0.0	Yes	5.0	No	47.5	45	Yes	47.5	45	Yes	0.0	Yes	5.0	No
18	Residential	County	LT-5	58.1	63.6	45	Yes	63.6	45	Yes	0.0	Yes	5.0	No	45.6	45	Yes	45.6	45	Yes	0.0	Yes	5.0	No
19	Residential	County	LT-5	58.1	64.1	45	Yes	64.2	45	Yes	0.1	Yes	5.0	No	46.1	45	Yes	46.2	45	Yes	0.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.4	45	Yes	64.4	45	Yes	0.0	Yes	5.0	No	46.4	45	Yes	46.4	45	Yes	0.0	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.2	45	Yes	65.3	45	Yes	0.1	Yes	5.0	No	47.2	45	Yes	47.3	45	Yes	0.1	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.0	45	Yes	65.0	45	Yes	0.0	Yes	5.0	No	47.0	45	Yes	47.0	45	Yes	0.0	Yes	5.0	No
23	Residential	County	LT-5	58.1	64.6	45	Yes	64.6	45	Yes	0.0	Yes	5.0	No	46.6	45	Yes	46.6	45	Yes	0.0	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.1	45	Yes	66.1	45	Yes	0.0	Yes	5.0	No	48.1	45	Yes	48.1	45	Yes	0.0	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.2	45	Yes	66.2	45	Yes	0.0	Yes	5.0	No	48.2	45	Yes	48.2	45	Yes	0.0	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.3	45	Yes	66.3	45	Yes	0.0	Yes	5.0	No	48.3	45	Yes	48.3	45	Yes	0.0	Yes	5.0	No
27	Residential	County	LT-5	58.1	65.9	45	Yes	66.0	45	Yes	0.1	Yes	5.0	No	47.9	45	Yes	48.0	45	Yes	0.1	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.0	45	Yes	67.1	45	Yes	0.1	Yes	5.0	No	49.0	45	Yes	49.1	45	Yes	0.1	Yes	5.0	No
29	Residential	County	LT-4	66.1	63.8	45	Yes	63.8	45	Yes	0.0	Yes	1.5	No	45.8	45	Yes	45.8	45	Yes	0.0	Yes	1.5	No
30	Residential	County	LT-4	66.1	68.4	45	Yes	68.3	45	Yes	-0.1	Yes	1.5	No	50.4	45	Yes	50.3	45	Yes	-0.1	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.3	45	Yes	68.2	45	Yes	-0.1	Yes	1.5	No	50.3	45	Yes	50.2	45	Yes	-0.1	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.3	45	Yes	68.2	45	Yes	-0.1	Yes	1.5	No	50.3	45	Yes	50.2	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	65.8	45	Yes	65.7	45	Yes	-0.1	Yes	1.5	No	47.8	45	Yes	47.7	45	Yes	-0.1	Yes	1.5	No
34	Residential	County	LT-4	66.1	65.9	45	Yes	65.8	45	Yes	-0.1	Yes	1.5	No	47.9	45	Yes	47.8	45	Yes	-0.1	Yes	1.5	No
35	Residential	County	LT-4	66.1	65.9	45	Yes	65.9	45	Yes	0.0	Yes	1.5	No	47.9	45	Yes	47.9	45	Yes	0.0	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	68.5	-	No	68.5	-	No	0.0	No	5.0	No	50.5	-	No	50.5	-	No	0.0	No	5.0	No
37	Residential	County	LT-4	66.1	64.6	45	Yes	64.6	45	Yes	0.0	Yes	1.5	No	46.6	45	Yes	46.6	45	Yes	0.0	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.2	45	Yes	64.2	45	Yes	0.0	Yes	1.5	No	46.2	45	Yes	46.2	45	Yes	0.0	Yes	1.5	No
39	Residential	County	LT-4	66.1	66.6	45	Yes	66.6	45	Yes	0.0	Yes	1.5	No	48.6	45	Yes	48.6	45	Yes	0.0	Yes	1.5	No
40	Residential	County	LT-4	66.1	66.4	45	Yes	66.4	45	Yes	0.0	Yes	1.5	No	48.4	45	Yes	48.4	45	Yes	0.0	Yes	1.5	No
41	Residential	County	LT-4	66.1	61.5	45	Yes	61.5	45	Yes	0.0	Yes	1.5	No	43.5	45	No	43.5	45	No	0.0	No	1.5	No
42	Residential	County	LT-4	66.1	60.9	45	Yes	60.9	45	Yes	0.0	Yes	1.5	No	42.9	45	No	42.9	45	No	0.0	No	1.5	No
43	Residential	County	LT-4	66.1	60.2	45	Yes	60.2	45	Yes	0.0	Yes	1.5	No	42.2	45	No	42.2	45	No	0.0	No	1.5	No
44	Residential	County	LT-4	66.1	59.6	45	Yes	59.6	45	Yes	0.0	Yes	1.5	No	41.6	45	No	41.6	45	No	0.0	No	1.5	No
45	Residential	County	LT-4	66.1	60.3	45	Yes	60.3	45	Yes	0.0	Yes	1.5	No	42.3	45	No	42.3	45	No	0.0	No	1.5	No
46	Residential	County	LT-4	66.1	59.5	45	Yes	59.5	45	Yes	0.0	Yes	1.5	No	41.5	45	No	41.5	45	No	0.0	No	1.5	No
47	Residential	County	LT-4	66.1	58.8	45	Yes	58.8	45	Yes	0.0	Yes	1.5	No	40.8	45	No	40.8	45	No	0.0	No	1.5	No
48	Residential	County	LT-4	66.1	58.5	45	Yes	58.4	45	Yes	-0.1	Yes	1.5	No	40.5	45	No	40.4	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.2	45	Yes	57.1	45	Yes	-0.1	Yes	1.5	No	39.2	45	No	39.1	45	No	-0.1	No	1.5	No
50	Residential	County	LT-4	66.1	56.9	45	Yes	56.8	45	Yes	-0.1	Yes	1.5	No	38.9	45	No	38.8	45	No	-0.1	No	1.5	No
51	Residential	County	LT-4	66.1	56.6	45	Yes	56.4	45	Yes	-0.2	Yes	1.5	No	38.6	45	No	38.4	45	No	-0.2	No	1.5	No
52	Residential	County	LT-1	61.2	50.6	45	Yes	43.0	45	No	-7.6	No	3.0	No	32.6	45	No	25.0	45	No	-7.6	No	3.0	No
53	Residential	County	LT-1	61.2	49.9	45	Yes	42.6	45	No	-7.3	No	3.0	No	31.9	45	No	24.6	45	No	-7.3	No	3.0	No

Construction Year 2026 (South Mainlines) Absolute Interior Noise Impact Analysis

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN INCREMENTAL INCREASE IMPACT ANALYSIS			NO PROJECT			WITH PROJECT			Comparison	FICAN INCREMENTAL INCREASE IMPACT ANALYSIS		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
54	Residential	County	LT-2	77.2	61.8	45	Yes	63.0	45	Yes	1.2	Yes	1.5	No	43.8	45	No	45.0	45	No	1.2	No	1.5	No
55	Residential	County	LT-2	77.2	66.1	45	Yes	67.4	45	Yes	1.3	Yes	1.5	No	48.1	45	Yes	49.4	45	Yes	1.3	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.3	45	Yes	68.0	45	Yes	0.7	Yes	1.5	No	49.3	45	Yes	50.0	45	Yes	0.7	Yes	1.5	No
57	Residential	County	LT-2	77.2	66.6	45	Yes	66.9	45	Yes	0.3	Yes	1.5	No	48.6	45	Yes	48.9	45	Yes	0.3	Yes	1.5	No
58	Residential	County	LT-2	77.2	67.3	45	Yes	67.4	45	Yes	0.1	Yes	1.5	No	49.3	45	Yes	49.4	45	Yes	0.1	Yes	1.5	No
59	Residential	County	LT-2	77.2	66.3	45	Yes	66.2	45	Yes	-0.1	Yes	1.5	No	48.3	45	Yes	48.2	45	Yes	-0.1	Yes	1.5	No
60	Residential	County	LT-2	77.2	64.4	45	Yes	64.4	45	Yes	0.0	Yes	1.5	No	46.4	45	Yes	46.4	45	Yes	0.0	Yes	1.5	No
61	Residential	County	LT-2	77.2	68.9	45	Yes	68.9	45	Yes	0.0	Yes	1.5	No	50.9	45	Yes	50.9	45	Yes	0.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.2	45	Yes	70.2	45	Yes	0.0	Yes	1.5	No	52.2	45	Yes	52.2	45	Yes	0.0	Yes	1.5	No
63	Residential	County	LT-2	77.2	64.4	45	Yes	64.4	45	Yes	0.0	Yes	1.5	No	46.4	45	Yes	46.4	45	Yes	0.0	Yes	1.5	No
64	Residential	County	LT-2	77.2	66.3	45	Yes	66.3	45	Yes	0.0	Yes	1.5	No	48.3	45	Yes	48.3	45	Yes	0.0	Yes	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.1	45	Yes	60.1	45	Yes	0.0	Yes	5.0	No	42.1	45	No	42.1	45	No	0.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	56.5	-	No	56.5	-	No	0.0	No	5.0	No	38.5	-	No	38.5	-	No	0.0	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	57.7	45	Yes	57.8	45	Yes	0.1	Yes	5.0	No	39.7	45	No	39.8	45	No	0.1	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	53.5	45	Yes	53.5	45	Yes	0.0	Yes	5.0	No	35.5	45	No	35.5	45	No	0.0	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	51.4	45	Yes	51.4	45	Yes	0.0	Yes	3.0	No	33.4	45	No	33.4	45	No	0.0	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.1	45	Yes	49.2	45	Yes	0.1	Yes	3.0	No	31.1	45	No	31.2	45	No	0.1	No	3.0	No
71	Residential	County	LT-2	77.2	62.5	45	Yes	62.5	45	Yes	0.0	Yes	1.5	No	44.5	45	No	44.5	45	No	0.0	No	1.5	No
72	Residential	County	LT-2	77.2	62.1	45	Yes	62.1	45	Yes	0.0	Yes	1.5	No	44.1	45	No	44.1	45	No	0.0	No	1.5	No
73	Residential	County	LT-2	77.2	61.5	45	Yes	61.5	45	Yes	0.0	Yes	1.5	No	43.5	45	No	43.5	45	No	0.0	No	1.5	No
74	Residential	County	LT-2	77.2	68.0	45	Yes	68.0	45	Yes	0.0	Yes	1.5	No	50.0	45	Yes	50.0	45	Yes	0.0	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.1	45	Yes	69.1	45	Yes	0.0	Yes	1.5	No	51.1	45	Yes	51.1	45	Yes	0.0	Yes	1.5	No
76	Residential	County	LT-2	77.2	73.7	45	Yes	73.7	45	Yes	0.0	Yes	1.5	No	55.7	45	Yes	55.7	45	Yes	0.0	Yes	1.5	No
77	Residential	County	LT-2	77.2	59.1	45	Yes	59.1	45	Yes	0.0	Yes	1.5	No	41.1	45	No	41.1	45	No	0.0	No	1.5	No
78	Residential	County	LT-2	77.2	56.9	45	Yes	56.9	45	Yes	0.0	Yes	1.5	No	38.9	45	No	38.9	45	No	0.0	No	1.5	No
79	Residential	County	LT-2	77.2	62.1	45	Yes	62.1	45	Yes	0.0	Yes	1.5	No	44.1	45	No	44.1	45	No	0.0	No	1.5	No
80	Residential	County	LT-2	77.2	62.9	45	Yes	62.9	45	Yes	0.0	Yes	1.5	No	44.9	45	No	44.9	45	No	0.0	No	1.5	No
81	Residential	County	LT-2	77.2	58.7	45	Yes	58.7	45	Yes	0.0	Yes	1.5	No	40.7	45	No	40.7	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	61.8	45	Yes	61.8	45	Yes	0.0	Yes	1.5	No	43.8	45	No	43.8	45	No	0.0	No	1.5	No
83	Residential	City	LT-3	66.5	42.3	45	No	39.5	45	No	-2.8	No	1.5	No	24.3	45	No	21.5	45	No	-2.8	No	1.5	No
84	Residential	City	LT-3	66.5	41.2	45	No	38.6	45	No	-2.6	No	1.5	No	23.2	45	No	20.6	45	No	-2.6	No	1.5	No
85	Residential	City	LT-3	66.5	61.7	45	Yes	61.7	45	Yes	0.0	Yes	1.5	No	43.7	45	No	43.7	45	No	0.0	No	1.5	No
86	Residential	City	LT-3	66.5	41.8	45	No	37.2	45	No	-4.6	No	1.5	No	23.8	45	No	19.2	45	No	-4.6	No	1.5	No
87	Residential	City	LT-3	66.5	40.0	45	No	36.7	45	No	-3.3	No	1.5	No	22.0	45	No	18.7	45	No	-3.3	No	1.5	No
88	Residential	City	LT-3	66.5	40.5	45	No	37.4	45	No	-3.1	No	1.5	No	22.5	45	No	19.4	45	No	-3.1	No	1.5	No
89	Residential	City	LT-3	66.5	40.6	45	No	37.5	45	No	-3.1	No	1.5	No	22.6	45	No	19.5	45	No	-3.1	No	1.5	No
90	Residential	City	LT-3	66.5	40.1	45	No	37.2	45	No	-2.9	No	1.5	No	22.1	45	No	19.2	45	No	-2.9	No	1.5	No

Opening Year 2028 Absolute Interior Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN							WINDOWS CLOSED									
					WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	57.4	45	Yes	2.7	Yes	1.5	Yes	36.7	45	No	39.4	45	No	2.7	No	1.5	Yes
2	Residential	County	LT-3	66.5	55.3	45	Yes	1.6	Yes	1.5	Yes	35.7	45	No	37.3	45	No	1.6	No	1.5	Yes
3	Residential	County	LT-3	66.5	55.5	45	Yes	0.7	Yes	1.5	No	36.8	45	No	37.5	45	No	0.7	No	1.5	No
4	Residential	City	LT-3	66.5	54.8	45	Yes	2.5	Yes	1.5	Yes	34.3	45	No	36.8	45	No	2.5	No	1.5	Yes
5	Residential	City	LT-3	66.5	55.1	45	Yes	1.1	Yes	1.5	No	36.0	45	No	37.1	45	No	1.1	No	1.5	No
6	Residential	City	LT-5	58.1	52.1	45	Yes	3.8	Yes	5.0	No	30.3	45	No	34.1	45	No	3.8	No	5.0	No
7	Residential	City	LT-5	58.1	57.1	45	Yes	-0.3	Yes	5.0	No	39.4	45	No	39.1	45	No	-0.3	No	5.0	No
8	Residential	County	LT-5	58.1	59.4	45	Yes	-0.8	Yes	5.0	No	42.2	45	No	41.4	45	No	-0.8	No	5.0	No
9	Residential	County	LT-5	58.1	60.8	45	Yes	-0.8	Yes	5.0	No	43.6	45	No	42.8	45	No	-0.8	No	5.0	No
10	Residential	County	LT-5	58.1	61.1	45	Yes	-0.8	Yes	5.0	No	43.9	45	No	43.1	45	No	-0.8	No	5.0	No
11	Residential	County	LT-5	58.1	61.4	45	Yes	-0.8	Yes	5.0	No	44.2	45	No	43.4	45	No	-0.8	No	5.0	No
12	Residential	County	LT-5	58.1	61.7	45	Yes	-0.9	Yes	5.0	No	44.6	45	No	43.7	45	No	-0.9	No	5.0	No
13	Residential	County	LT-5	58.1	62.1	45	Yes	-0.9	Yes	5.0	No	45.0	45	No	44.1	45	No	-0.9	No	5.0	No
14	Residential	County	LT-5	58.1	64.9	45	Yes	-1.1	Yes	5.0	No	48.0	45	Yes	46.9	45	Yes	-1.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	66.6	45	Yes	-1.2	Yes	5.0	No	49.8	45	Yes	48.6	45	Yes	-1.2	Yes	5.0	No
16	Residential	County	LT-5	58.1	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
17	Residential	County	LT-5	58.1	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
18	Residential	County	LT-5	58.1	62.7	45	Yes	-1.1	Yes	5.0	No	45.8	45	Yes	44.7	45	No	-1.1	No	5.0	No
19	Residential	County	LT-5	58.1	63.3	45	Yes	-1.1	Yes	5.0	No	46.4	45	Yes	45.3	45	Yes	-1.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	63.5	45	Yes	-1.1	Yes	5.0	No	46.6	45	Yes	45.5	45	Yes	-1.1	Yes	5.0	No
21	Residential	County	LT-5	58.1	64.4	45	Yes	-1.1	Yes	5.0	No	47.5	45	Yes	46.4	45	Yes	-1.1	Yes	5.0	No
22	Residential	County	LT-5	58.1	64.2	45	Yes	-1.1	Yes	5.0	No	47.3	45	Yes	46.2	45	Yes	-1.1	Yes	5.0	No
23	Residential	County	LT-5	58.1	63.8	45	Yes	-1.1	Yes	5.0	No	46.9	45	Yes	45.8	45	Yes	-1.1	Yes	5.0	No
24	Residential	County	LT-5	58.1	65.2	45	Yes	-1.2	Yes	5.0	No	48.4	45	Yes	47.2	45	Yes	-1.2	Yes	5.0	No
25	Residential	County	LT-5	58.1	65.3	45	Yes	-1.1	Yes	5.0	No	48.4	45	Yes	47.3	45	Yes	-1.1	Yes	5.0	No
26	Residential	County	LT-5	58.1	65.4	45	Yes	-1.1	Yes	5.0	No	48.5	45	Yes	47.4	45	Yes	-1.1	Yes	5.0	No
27	Residential	County	LT-5	58.1	65.0	45	Yes	-1.2	Yes	5.0	No	48.2	45	Yes	47.0	45	Yes	-1.2	Yes	5.0	No
28	Residential	County	LT-5	58.1	66.0	45	Yes	-1.3	Yes	5.0	No	49.3	45	Yes	48.0	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	63.6	45	Yes	-0.5	Yes	1.5	No	46.1	45	Yes	45.6	45	Yes	-0.5	Yes	1.5	No
30	Residential	County	LT-4	66.1	68.7	45	Yes	0.0	Yes	1.5	No	50.7	45	Yes	50.7	45	Yes	0.0	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.6	45	Yes	0.0	Yes	1.5	No	50.6	45	Yes	50.6	45	Yes	0.0	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.5	45	Yes	-0.1	Yes	1.5	No	50.6	45	Yes	50.5	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	65.7	45	Yes	-0.4	Yes	1.5	No	48.1	45	Yes	47.7	45	Yes	-0.4	Yes	1.5	No
34	Residential	County	LT-4	66.1	65.8	45	Yes	-0.3	Yes	1.5	No	48.1	45	Yes	47.8	45	Yes	-0.3	Yes	1.5	No
35	Residential	County	LT-4	66.1	65.9	45	Yes	-0.3	Yes	1.5	No	48.2	45	Yes	47.9	45	Yes	-0.3	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	68.7	-	No	-0.1	No	5.0	No	50.8	-	No	50.7	-	No	-0.1	No	5.0	No
37	Residential	County	LT-4	66.1	64.5	45	Yes	-0.4	Yes	1.5	No	46.9	45	Yes	46.5	45	Yes	-0.4	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.1	45	Yes	-0.4	Yes	1.5	No	46.5	45	Yes	46.1	45	Yes	-0.4	Yes	1.5	No
39	Residential	County	LT-4	66.1	66.7	45	Yes	-0.2	Yes	1.5	No	48.9	45	Yes	48.7	45	Yes	-0.2	Yes	1.5	No
40	Residential	County	LT-4	66.1	66.6	45	Yes	-0.1	Yes	1.5	No	48.7	45	Yes	48.6	45	Yes	-0.1	Yes	1.5	No
41	Residential	County	LT-4	66.1	61.5	45	Yes	-0.3	Yes	1.5	No	43.8	45	No	43.5	45	No	-0.3	No	1.5	No
42	Residential	County	LT-4	66.1	60.9	45	Yes	-0.2	Yes	1.5	No	43.1	45	No	42.9	45	No	-0.2	No	1.5	No
43	Residential	County	LT-4	66.1	60.2	45	Yes	-0.3	Yes	1.5	No	42.5	45	No	42.2	45	No	-0.3	No	1.5	No
44	Residential	County	LT-4	66.1	59.7	45	Yes	-0.2	Yes	1.5	No	41.9	45	No	41.7	45	No	-0.2	No	1.5	No
45	Residential	County	LT-4	66.1	60.4	45	Yes	-0.2	Yes	1.5	No	42.6	45	No	42.4	45	No	-0.2	No	1.5	No
46	Residential	County	LT-4	66.1	59.6	45	Yes	-0.2	Yes	1.5	No	41.8	45	No	41.6	45	No	-0.2	No	1.5	No
47	Residential	County	LT-4	66.1	59.0	45	Yes	-0.1	Yes	1.5	No	41.1	45	No	41.0	45	No	-0.1	No	1.5	No

Opening Year 2028 Absolute Interior Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN							WINDOWS CLOSED									
					WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
48	Residential	County	LT-4	66.1	58.8	45	Yes	0.1	Yes	1.5	No	40.7	45	No	40.8	45	No	0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45	No	39.8	45	No	0.3	No	1.5	No
50	Residential	County	LT-4	66.1	57.7	45	Yes	0.5	Yes	1.5	No	39.2	45	No	39.7	45	No	0.5	No	1.5	No
51	Residential	County	LT-4	66.1	57.6	45	Yes	0.7	Yes	1.5	No	38.9	45	No	39.6	45	No	0.7	No	1.5	No
52	Residential	County	LT-1	61.2	50.1	45	Yes	-0.8	Yes	3.0	No	32.9	45	No	32.1	45	No	-0.8	No	3.0	No
53	Residential	County	LT-1	61.2	50.4	45	Yes	0.3	Yes	3.0	No	32.1	45	No	32.4	45	No	0.3	No	3.0	No
54	Residential	County	LT-2	77.2	61.0	45	Yes	-1.1	Yes	1.5	No	44.1	45	No	43.0	45	No	-1.1	No	1.5	No
55	Residential	County	LT-2	77.2	65.1	45	Yes	-1.3	Yes	1.5	No	48.4	45	Yes	47.1	45	Yes	-1.3	Yes	1.5	No
56	Residential	County	LT-2	77.2	64.1	45	Yes	-3.5	Yes	1.5	No	49.6	45	Yes	46.1	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	62.4	45	Yes	-4.5	Yes	1.5	No	48.9	45	Yes	44.4	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	62.7	45	Yes	-4.9	Yes	1.5	No	49.6	45	Yes	44.7	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	64.2	45	Yes	-5.0	Yes	1.5	No	51.2	45	Yes	46.2	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	65.4	45	Yes	-5.1	Yes	1.5	No	52.5	45	Yes	47.4	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	59.5	45	Yes	-0.9	Yes	5.0	No	42.4	45	No	41.5	45	No	-0.9	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	56.2	-	No	-0.5	No	5.0	No	38.7	-	No	38.2	-	No	-0.5	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	57.6	45	Yes	-0.4	Yes	5.0	No	40.0	45	No	39.6	45	No	-0.4	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	53.7	45	Yes	-0.1	Yes	5.0	No	35.8	45	No	35.7	45	No	-0.1	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	51.9	45	Yes	0.2	Yes	3.0	No	33.7	45	No	33.9	45	No	0.2	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	50.8	45	Yes	1.5	Yes	3.0	No	31.3	45	No	32.8	45	No	1.5	No	3.0	No
71	Residential	County	LT-2	77.2	58.0	45	Yes	-4.8	Yes	1.5	No	44.8	45	No	40.0	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	57.7	45	Yes	-4.7	Yes	1.5	No	44.4	45	No	39.7	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	57.2	45	Yes	-4.5	Yes	1.5	No	43.7	45	No	39.2	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	63.8	45	Yes	-4.4	Yes	1.5	No	50.2	45	Yes	45.8	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	65.1	45	Yes	-4.2	Yes	1.5	No	51.3	45	Yes	47.1	45	Yes	-4.2	Yes	1.5	No
76	Residential	County	LT-2	77.2	74.1	45	Yes	0.1	Yes	1.5	No	56.0	45	Yes	56.1	45	Yes	0.1	Yes	1.5	No
77	Residential	County	LT-2	77.2	57.3	45	Yes	-2.1	Yes	1.5	No	41.4	45	No	39.3	45	No	-2.1	No	1.5	No
78	Residential	County	LT-2	77.2	57.3	45	Yes	0.1	Yes	1.5	No	39.2	45	No	39.3	45	No	0.1	No	1.5	No
79	Residential	County	LT-2	77.2	62.7	45	Yes	0.3	Yes	1.5	No	44.4	45	No	44.7	45	No	0.3	No	1.5	No
80	Residential	County	LT-2	77.2	63.4	45	Yes	0.3	Yes	1.5	No	45.1	45	Yes	45.4	45	Yes	0.3	Yes	1.5	No
81	Residential	County	LT-2	77.2	59.2	45	Yes	0.3	Yes	1.5	No	40.9	45	No	41.2	45	No	0.3	No	1.5	No
82	Residential	County	LT-2	77.2	62.4	45	Yes	0.3	Yes	1.5	No	44.1	45	No	44.4	45	No	0.3	No	1.5	No
83	Residential	City	LT-3	66.5	50.6	45	Yes	8.0	Yes	1.5	Yes	24.6	45	No	32.6	45	No	8.0	No	1.5	Yes
84	Residential	City	LT-3	66.5	50.2	45	Yes	8.7	Yes	1.5	Yes	23.5	45	No	32.2	45	No	8.7	No	1.5	Yes
85	Residential	City	LT-3	66.5	61.5	45	Yes	-0.5	Yes	1.5	No	44.0	45	No	43.5	45	No	-0.5	No	1.5	No
86	Residential	City	LT-3	66.5	49.5	45	Yes	7.5	Yes	1.5	Yes	24.0	45	No	31.5	45	No	7.5	No	1.5	Yes
87	Residential	City	LT-3	66.5	49.9	45	Yes	9.6	Yes	1.5	Yes	22.3	45	No	31.9	45	No	9.6	No	1.5	Yes
88	Residential	City	LT-3	66.5	50.3	45	Yes	9.5	Yes	1.5	Yes	22.8	45	No	32.3	45	No	9.5	No	1.5	Yes
89	Residential	City	LT-3	66.5	50.4	45	Yes	9.5	Yes	1.5	Yes	22.9	45	No	32.4	45	No	9.5	No	1.5	Yes
90	Residential	City	LT-3	66.5	50.5	45	Yes	10.1	Yes	1.5	Yes	22.4	45	No	32.5	45	No	10.1	No	1.5	Yes

Opening Year 2028 Absolute Interior Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	54.7	45	Yes	55.7	45	Yes	1.0	Yes	1.5	No	36.7	45	No	37.7	45	No	1.0	No	1.5	No
2	Residential	County	LT-3	66.5	53.7	45	Yes	54.3	45	Yes	0.6	Yes	1.5	No	35.7	45	No	36.3	45	No	0.6	No	1.5	No
3	Residential	County	LT-3	66.5	54.8	45	Yes	54.1	45	Yes	-0.7	Yes	1.5	No	36.8	45	No	36.1	45	No	-0.7	No	1.5	No
4	Residential	City	LT-3	66.5	52.3	45	Yes	53.6	45	Yes	1.3	Yes	1.5	No	34.3	45	No	35.6	45	No	1.3	No	1.5	No
5	Residential	City	LT-3	66.5	54.0	45	Yes	52.8	45	Yes	-1.2	Yes	1.5	No	36.0	45	No	34.8	45	No	-1.2	No	1.5	No
6	Residential	City	LT-5	58.1	48.3	45	Yes	51.6	45	Yes	3.3	Yes	5.0	No	30.3	45	No	33.6	45	No	3.3	No	5.0	No
7	Residential	City	LT-5	58.1	57.4	45	Yes	57.1	45	Yes	-0.3	Yes	5.0	No	39.4	45	No	39.1	45	No	-0.3	No	5.0	No
8	Residential	County	LT-5	58.1	60.2	45	Yes	59.4	45	Yes	-0.8	Yes	5.0	No	42.2	45	No	41.4	45	No	-0.8	No	5.0	No
9	Residential	County	LT-5	58.1	61.6	45	Yes	60.8	45	Yes	-0.8	Yes	5.0	No	43.6	45	No	42.8	45	No	-0.8	No	5.0	No
10	Residential	County	LT-5	58.1	61.9	45	Yes	61.1	45	Yes	-0.8	Yes	5.0	No	43.9	45	No	43.1	45	No	-0.8	No	5.0	No
11	Residential	County	LT-5	58.1	62.2	45	Yes	61.4	45	Yes	-0.8	Yes	5.0	No	44.2	45	No	43.4	45	No	-0.8	No	5.0	No
12	Residential	County	LT-5	58.1	62.6	45	Yes	61.7	45	Yes	-0.9	Yes	5.0	No	44.6	45	No	43.7	45	No	-0.9	No	5.0	No
13	Residential	County	LT-5	58.1	63.0	45	Yes	62.1	45	Yes	-0.9	Yes	5.0	No	45.0	45	No	44.1	45	No	-0.9	No	5.0	No
14	Residential	County	LT-5	58.1	66.0	45	Yes	64.9	45	Yes	-1.1	Yes	5.0	No	48.0	45	Yes	46.9	45	Yes	-1.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	67.8	45	Yes	66.6	45	Yes	-1.2	Yes	5.0	No	49.8	45	Yes	48.6	45	Yes	-1.2	Yes	5.0	No
16	Residential	County	LT-5	58.1	65.7	45	Yes	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
17	Residential	County	LT-5	58.1	65.7	45	Yes	64.4	45	Yes	-1.3	Yes	5.0	No	47.7	45	Yes	46.4	45	Yes	-1.3	Yes	5.0	No
18	Residential	County	LT-5	58.1	63.8	45	Yes	62.7	45	Yes	-1.1	Yes	5.0	No	45.8	45	Yes	44.7	45	No	-1.1	No	5.0	No
19	Residential	County	LT-5	58.1	64.4	45	Yes	63.3	45	Yes	-1.1	Yes	5.0	No	46.4	45	Yes	45.3	45	Yes	-1.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.6	45	Yes	63.5	45	Yes	-1.1	Yes	5.0	No	46.6	45	Yes	45.5	45	Yes	-1.1	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.5	45	Yes	64.4	45	Yes	-1.1	Yes	5.0	No	47.5	45	Yes	46.4	45	Yes	-1.1	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.3	45	Yes	64.2	45	Yes	-1.1	Yes	5.0	No	47.3	45	Yes	46.2	45	Yes	-1.1	Yes	5.0	No
23	Residential	County	LT-5	58.1	64.9	45	Yes	63.8	45	Yes	-1.1	Yes	5.0	No	46.9	45	Yes	45.8	45	Yes	-1.1	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.4	45	Yes	65.2	45	Yes	-1.2	Yes	5.0	No	48.4	45	Yes	47.2	45	Yes	-1.2	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.4	45	Yes	65.3	45	Yes	-1.1	Yes	5.0	No	48.4	45	Yes	47.3	45	Yes	-1.1	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.5	45	Yes	65.4	45	Yes	-1.1	Yes	5.0	No	48.5	45	Yes	47.4	45	Yes	-1.1	Yes	5.0	No
27	Residential	County	LT-5	58.1	66.2	45	Yes	65.0	45	Yes	-1.2	Yes	5.0	No	48.2	45	Yes	47.0	45	Yes	-1.2	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.3	45	Yes	66.0	45	Yes	-1.3	Yes	5.0	No	49.3	45	Yes	48.0	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	64.1	45	Yes	63.6	45	Yes	-0.5	Yes	1.5	No	46.1	45	Yes	45.6	45	Yes	-0.5	Yes	1.5	No
30	Residential	County	LT-4	66.1	68.7	45	Yes	68.7	45	Yes	0.0	Yes	1.5	No	50.7	45	Yes	50.7	45	Yes	0.0	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.6	45	Yes	68.6	45	Yes	0.0	Yes	1.5	No	50.6	45	Yes	50.6	45	Yes	0.0	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.6	45	Yes	68.5	45	Yes	-0.1	Yes	1.5	No	50.6	45	Yes	50.5	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	66.1	45	Yes	65.7	45	Yes	-0.4	Yes	1.5	No	48.1	45	Yes	47.7	45	Yes	-0.4	Yes	1.5	No
34	Residential	County	LT-4	66.1	66.1	45	Yes	65.8	45	Yes	-0.3	Yes	1.5	No	48.1	45	Yes	47.8	45	Yes	-0.3	Yes	1.5	No
35	Residential	County	LT-4	66.1	66.2	45	Yes	65.9	45	Yes	-0.3	Yes	1.5	No	48.2	45	Yes	47.9	45	Yes	-0.3	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	68.8	-	No	68.7	-	No	-0.1	No	5.0	No	50.8	-	No	50.7	-	No	-0.1	No	5.0	No
37	Residential	County	LT-4	66.1	64.9	45	Yes	64.5	45	Yes	-0.4	Yes	1.5	No	46.9	45	Yes	46.5	45	Yes	-0.4	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.5	45	Yes	64.1	45	Yes	-0.4	Yes	1.5	No	46.5	45	Yes	46.1	45	Yes	-0.4	Yes	1.5	No
39	Residential	County	LT-4	66.1	66.9	45	Yes	66.7	45	Yes	-0.2	Yes	1.5	No	48.9	45	Yes	48.7	45	Yes	-0.2	Yes	1.5	No
40	Residential	County	LT-4	66.1	66.7	45	Yes	66.6	45	Yes	-0.1	Yes	1.5	No	48.7	45	Yes	48.6	45	Yes	-0.1	Yes	1.5	No
41	Residential	County	LT-4	66.1	61.8	45	Yes	61.5	45	Yes	-0.3	Yes	1.5	No	43.8	45	No	43.5	45	No	-0.3	No	1.5	No
42	Residential	County	LT-4	66.1	61.1	45	Yes	60.9	45	Yes	-0.2	Yes	1.5	No	43.1	45	No	42.9	45	No	-0.2	No	1.5	No
43	Residential	County	LT-4	66.1	60.5	45	Yes	60.2	45	Yes	-0.3	Yes	1.5	No	42.5	45	No	42.2	45	No	-0.3	No	1.5	No
44	Residential	County	LT-4	66.1	59.9	45	Yes	59.7	45	Yes	-0.2	Yes	1.5	No	41.9	45	No	41.7	45	No	-0.2	No	1.5	No
45	Residential	County	LT-4	66.1	60.6	45	Yes	60.4	45	Yes	-0.2	Yes	1.5	No	42.6	45	No	42.4	45	No	-0.2	No	1.5	No
46	Residential	County	LT-4	66.1	59.8	45	Yes	59.6	45	Yes	-0.2	Yes	1.5	No	41.8	45	No	41.6	45	No	-0.2	No	1.5	No
47	Residential	County	LT-4	66.1	59.1	45	Yes	59.0	45	Yes	-0.1	Yes	1.5	No	41.1	45	No	41.0	45	No	-0.1	No	1.5	No
48	Residential	County	LT-4	66.1	58.7	45	Yes	58.8	45	Yes	0.1	Yes	1.5	No	40.7	45	No	40.8	45	No	0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.5	45	Yes	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45	No	39.8	45	No	0.3	No	1.5	No
50	Residential	County	LT-4	66.1	57.2	45	Yes	57.7	45	Yes	0.5	Yes	1.5	No	39.2	45	No	39.7	45	No	0.5	No	1.5	No
51	Residential	County	LT-4	66.1	56.9	45	Yes	57.6	45	Yes	0.7	Yes	1.5	No										

Opening Year 2028 Absolute Interior Noise Impact Analysis - With Noise Barriers																								
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	66.4	45	Yes	65.1	45	Yes	-1.3	Yes	1.5	No	48.4	45	Yes	47.1	45	Yes	-1.3	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.6	45	Yes	64.1	45	Yes	-3.5	Yes	1.5	No	49.6	45	Yes	46.1	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	66.9	45	Yes	62.4	45	Yes	-4.5	Yes	1.5	No	48.9	45	Yes	44.4	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	67.6	45	Yes	62.7	45	Yes	-4.9	Yes	1.5	No	49.6	45	Yes	44.7	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	66.5	45	Yes	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	64.7	45	Yes	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	69.2	45	Yes	64.2	45	Yes	-5.0	Yes	1.5	No	51.2	45	Yes	46.2	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.5	45	Yes	65.4	45	Yes	-5.1	Yes	1.5	No	52.5	45	Yes	47.4	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	64.7	45	Yes	59.8	45	Yes	-4.9	Yes	1.5	No	46.7	45	Yes	41.8	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	66.5	45	Yes	61.6	45	Yes	-4.9	Yes	1.5	No	48.5	45	Yes	43.6	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.4	45	Yes	59.5	45	Yes	-0.9	Yes	5.0	No	42.4	45	No	41.5	45	No	-0.9	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	56.7	-	No	56.2	-	No	-0.5	No	5.0	No	38.7	-	No	38.2	-	No	-0.5	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	58.0	45	Yes	57.6	45	Yes	-0.4	Yes	5.0	No	40.0	45	No	39.6	45	No	-0.4	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	53.8	45	Yes	53.7	45	Yes	-0.1	Yes	5.0	No	35.8	45	No	35.7	45	No	-0.1	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	51.7	45	Yes	51.9	45	Yes	0.2	Yes	3.0	No	33.7	45	No	33.9	45	No	0.2	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.3	45	Yes	50.8	45	Yes	1.5	Yes	3.0	No	31.3	45	No	32.8	45	No	1.5	No	3.0	No
71	Residential	County	LT-2	77.2	62.8	45	Yes	58.0	45	Yes	-4.8	Yes	1.5	No	44.8	45	No	40.0	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	62.4	45	Yes	57.7	45	Yes	-4.7	Yes	1.5	No	44.4	45	No	39.7	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	61.7	45	Yes	57.2	45	Yes	-4.5	Yes	1.5	No	43.7	45	No	39.2	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	68.2	45	Yes	63.8	45	Yes	-4.4	Yes	1.5	No	50.2	45	Yes	45.8	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.3	45	Yes	65.1	45	Yes	-4.2	Yes	1.5	No	51.3	45	Yes	47.1	45	Yes	-4.2	Yes	1.5	No
76	Residential	County	LT-2	77.2	74.0	45	Yes	74.1	45	Yes	0.1	Yes	1.5	No	56.0	45	Yes	56.1	45	Yes	0.1	Yes	1.5	No
77	Residential	County	LT-2	77.2	59.4	45	Yes	57.3	45	Yes	-2.1	Yes	1.5	No	41.4	45	No	39.3	45	No	-2.1	No	1.5	No
78	Residential	County	LT-2	77.2	57.2	45	Yes	57.3	45	Yes	0.1	Yes	1.5	No	39.2	45	No	39.3	45	No	0.1	No	1.5	No
79	Residential	County	LT-2	77.2	62.4	45	Yes	62.6	45	Yes	0.2	Yes	1.5	No	44.4	45	No	44.6	45	No	0.2	No	1.5	No
80	Residential	County	LT-2	77.2	63.1	45	Yes	63.4	45	Yes	0.3	Yes	1.5	No	45.1	45	Yes	45.4	45	Yes	0.3	Yes	1.5	No
81	Residential	County	LT-2	77.2	58.9	45	Yes	59.2	45	Yes	0.3	Yes	1.5	No	40.9	45	No	41.2	45	No	0.3	No	1.5	No
82	Residential	County	LT-2	77.2	62.1	45	Yes	62.4	45	Yes	0.3	Yes	1.5	No	44.1	45	No	44.4	45	No	0.3	No	1.5	No
83	Residential	City	LT-3	66.5	42.6	45	No	51.0	45	Yes	8.4	Yes	1.5	Yes	24.6	45	No	33.0	45	No	8.4	No	1.5	Yes
84	Residential	City	LT-3	66.5	41.5	45	No	50.6	45	Yes	9.1	Yes	1.5	Yes	23.5	45	No	32.6	45	No	9.1	No	1.5	Yes
85	Residential	City	LT-3	66.5	62.0	45	Yes	61.5	45	Yes	-0.5	Yes	1.5	No	44.0	45	No	43.5	45	No	-0.5	No	1.5	No
86	Residential	City	LT-3	66.5	42.0	45	No	49.6	45	Yes	7.6	Yes	1.5	Yes	24.0	45	No	31.6	45	No	7.6	No	1.5	Yes
87	Residential	City	LT-3	66.5	40.3	45	No	49.9	45	Yes	9.6	Yes	1.5	Yes	22.3	45	No	31.9	45	No	9.6	No	1.5	Yes
88	Residential	City	LT-3	66.5	40.8	45	No	50.3	45	Yes	9.5	Yes	1.5	Yes	22.8	45	No	32.3	45	No	9.5	No	1.5	Yes
89	Residential	City	LT-3	66.5	40.9	45	No	50.5	45	Yes	9.6	Yes	1.5	Yes	22.9	45	No	32.5	45	No	9.6	No	1.5	Yes
90	Residential	City	LT-3	66.5	40.4	45	No	50.6	45	Yes	10.2	Yes	1.5	Yes	22.4	45	No	32.6	45	No	10.2	No	1.5	Yes

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{din} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	55.0	45	Yes	57.4	45	Yes	2.4	Yes	1.5	Yes	37.0	45	No	39.4	45	No	2.4	No	1.5	Yes
2	Residential	County	LT-3	66.5	54.0	45	Yes	55.3	45	Yes	1.3	Yes	1.5	No	36.0	45	No	37.3	45	No	1.3	No	1.5	No
3	Residential	County	LT-3	66.5	55.1	45	Yes	55.5	45	Yes	0.4	Yes	1.5	No	37.1	45	No	37.5	45	No	0.4	No	1.5	No
4	Residential	City	LT-3	66.5	52.6	45	Yes	54.9	45	Yes	2.3	Yes	1.5	Yes	34.6	45	No	36.9	45	No	2.3	No	1.5	Yes
5	Residential	City	LT-3	66.5	54.3	45	Yes	55.1	45	Yes	0.8	Yes	1.5	No	36.3	45	No	37.1	45	No	0.8	No	1.5	No
6	Residential	City	LT-5	58.1	48.6	45	Yes	52.1	45	Yes	3.5	Yes	5.0	No	30.6	45	No	34.1	45	No	3.5	No	5.0	No
7	Residential	City	LT-5	58.1	57.7	45	Yes	57.2	45	Yes	-0.5	Yes	5.0	No	39.7	45	No	39.2	45	No	-0.5	No	5.0	No
8	Residential	County	LT-5	58.1	60.5	45	Yes	59.5	45	Yes	-1.0	Yes	5.0	No	42.5	45	No	41.5	45	No	-1.0	No	5.0	No
9	Residential	County	LT-5	58.1	61.9	45	Yes	60.9	45	Yes	-1.0	Yes	5.0	No	43.9	45	No	42.9	45	No	-1.0	No	5.0	No
10	Residential	County	LT-5	58.1	62.2	45	Yes	61.3	45	Yes	-0.9	Yes	5.0	No	44.2	45	No	43.3	45	No	-0.9	No	5.0	No
11	Residential	County	LT-5	58.1	62.5	45	Yes	61.6	45	Yes	-0.9	Yes	5.0	No	44.5	45	No	43.6	45	No	-0.9	No	5.0	No
12	Residential	County	LT-5	58.1	62.9	45	Yes	61.9	45	Yes	-1.0	Yes	5.0	No	44.9	45	No	43.9	45	No	-1.0	No	5.0	No
13	Residential	County	LT-5	58.1	63.3	45	Yes	62.3	45	Yes	-1.0	Yes	5.0	No	45.3	45	Yes	44.3	45	No	-1.0	No	5.0	No
14	Residential	County	LT-5	58.1	66.3	45	Yes	65.1	45	Yes	-1.2	Yes	5.0	No	48.3	45	Yes	47.1	45	Yes	-1.2	Yes	5.0	No
15	Residential	County	LT-5	58.1	68.1	45	Yes	66.8	45	Yes	-1.3	Yes	5.0	No	50.1	45	Yes	48.8	45	Yes	-1.3	Yes	5.0	No
16	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
17	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
18	Residential	County	LT-5	58.1	64.1	45	Yes	62.9	45	Yes	-1.2	Yes	5.0	No	46.1	45	Yes	44.9	45	No	-1.2	No	5.0	No
19	Residential	County	LT-5	58.1	64.7	45	Yes	63.5	45	Yes	-1.2	Yes	5.0	No	46.7	45	Yes	45.5	45	Yes	-1.2	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.9	45	Yes	63.7	45	Yes	-1.2	Yes	5.0	No	46.9	45	Yes	45.7	45	Yes	-1.2	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.8	45	Yes	64.6	45	Yes	-1.2	Yes	5.0	No	47.8	45	Yes	46.6	45	Yes	-1.2	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.6	45	Yes	64.4	45	Yes	-1.2	Yes	5.0	No	47.6	45	Yes	46.4	45	Yes	-1.2	Yes	5.0	No
23	Residential	County	LT-5	58.1	65.2	45	Yes	64.0	45	Yes	-1.2	Yes	5.0	No	47.2	45	Yes	46.0	45	Yes	-1.2	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.7	45	Yes	65.4	45	Yes	-1.3	Yes	5.0	No	48.7	45	Yes	47.4	45	Yes	-1.3	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.7	45	Yes	65.5	45	Yes	-1.2	Yes	5.0	No	48.7	45	Yes	47.5	45	Yes	-1.2	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.8	45	Yes	65.6	45	Yes	-1.2	Yes	5.0	No	48.8	45	Yes	47.6	45	Yes	-1.2	Yes	5.0	No
27	Residential	County	LT-5	58.1	66.5	45	Yes	65.2	45	Yes	-1.3	Yes	5.0	No	48.5	45	Yes	47.2	45	Yes	-1.3	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.6	45	Yes	66.3	45	Yes	-1.3	Yes	5.0	No	49.6	45	Yes	48.3	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	64.4	45	Yes	63.8	45	Yes	-0.6	Yes	1.5	No	46.4	45	Yes	45.8	45	Yes	-0.6	Yes	1.5	No
30	Residential	County	LT-4	66.1	69.0	45	Yes	68.8	45	Yes	-0.2	Yes	1.5	No	51.0	45	Yes	50.8	45	Yes	-0.2	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.9	45	Yes	68.7	45	Yes	-0.2	Yes	1.5	No	50.9	45	Yes	50.7	45	Yes	-0.2	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.9	45	Yes	68.6	45	Yes	-0.3	Yes	1.5	No	50.9	45	Yes	50.6	45	Yes	-0.3	Yes	1.5	No
33	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
34	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
35	Residential	County	LT-4	66.1	66.5	45	Yes	66.0	45	Yes	-0.5	Yes	1.5	No	48.5	45	Yes	48.0	45	Yes	-0.5	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	69.1	-	No	68.8	-	No	-0.3	No	5.0	No	51.1	-	No	50.8	-	No	-0.3	No	5.0	No
37	Residential	County	LT-4	66.1	65.2	45	Yes	64.6	45	Yes	-0.6	Yes	1.5	No	47.2	45	Yes	46.6	45	Yes	-0.6	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.8	45	Yes	64.2	45	Yes	-0.6	Yes	1.5	No	46.8	45	Yes	46.2	45	Yes	-0.6	Yes	1.5	No
39	Residential	County	LT-4	66.1	67.2	45	Yes	66.8	45	Yes	-0.4	Yes	1.5	No	49.2	45	Yes	48.8	45	Yes	-0.4	Yes	1.5	No
40	Residential	County	LT-4	66.1	67.0	45	Yes	66.7	45	Yes	-0.3	Yes	1.5	No	49.0	45	Yes	48.7	45	Yes	-0.3	Yes	1.5	No
41	Residential	County	LT-4	66.1	62.1	45	Yes	61.7	45	Yes	-0.4	Yes	1.5	No	44.1	45	No	43.7	45	No	-0.4	No	1.5	No
42	Residential	County	LT-4	66.1	61.4	45	Yes	61.0	45	Yes	-0.4	Yes	1.5	No	43.4	45	No	43.0	45	No	-0.4	No	1.5	No
43	Residential	County	LT-4	66.1	60.8	45	Yes	60.4	45	Yes	-0.4	Yes	1.5	No	42.8	45	No	42.4	45	No	-0.4	No	1.5	No
44	Residential	County	LT-4	66.1	60.2	45	Yes	59.9	45	Yes	-0.3	Yes	1.5	No	42.2	45	No	41.9	45	No	-0.3	No	1.5	No
45	Residential	County	LT-4	66.1	60.9	45	Yes	60.5	45	Yes	-0.4	Yes	1.5	No	42.9	45	No	42.5	45	No	-0.4	No	1.5	No
46	Residential	County	LT-4	66.1	60.1	45	Yes	59.8	45	Yes	-0.3	Yes	1.5	No	42.1	45	No	41.8	45	No	-0.3	No	1.5	No
47	Residential	County	LT-4	66.1	59.4	45	Yes	59.2	45	Yes	-0.2	Yes	1.5	No	41.4	45	No	41.2	45	No	-0.2	No	1.5	No
48	Residential	County	LT-4	66.1	59.0	45	Yes	58.9	45	Yes	-0.1	Yes	1.5	No	41.0	45	No	40.9	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.8	45	Yes	57.9	45	Yes	0.1	Yes	1.5	No	39.8	45	No	39.9	45	No	0.1	No	1.5	No
50	Residential	County	LT-4	66.1	57.5	45	Yes	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45								

Interim Year 2033 Absolute Interior Noise Impact Analysis - Without Noise Barriers																								
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	66.7	45	Yes	65.2	45	Yes	-1.5	Yes	1.5	No	48.7	45	Yes	47.2	45	Yes	-1.5	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.9	45	Yes	64.4	45	Yes	-3.5	Yes	1.5	No	49.9	45	Yes	46.4	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	67.2	45	Yes	62.7	45	Yes	-4.5	Yes	1.5	No	49.2	45	Yes	44.7	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	67.9	45	Yes	63.0	45	Yes	-4.9	Yes	1.5	No	49.9	45	Yes	45.0	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	69.5	45	Yes	64.5	45	Yes	-5.0	Yes	1.5	No	51.5	45	Yes	46.5	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.8	45	Yes	65.7	45	Yes	-5.1	Yes	1.5	No	52.8	45	Yes	47.7	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.7	45	Yes	59.7	45	Yes	-1.0	Yes	5.0	No	42.7	45	No	41.7	45	No	-1.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	57.0	-	No	56.4	-	No	-0.6	No	5.0	No	39.0	-	No	38.4	-	No	-0.6	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	58.3	45	Yes	57.7	45	Yes	-0.6	Yes	5.0	No	40.3	45	No	39.7	45	No	-0.6	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	54.1	45	Yes	53.8	45	Yes	-0.3	Yes	5.0	No	36.1	45	No	35.8	45	No	-0.3	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	52.0	45	Yes	52.1	45	Yes	0.1	Yes	3.0	No	34.0	45	No	34.1	45	No	0.1	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.6	45	Yes	50.9	45	Yes	1.3	Yes	3.0	No	31.6	45	No	32.9	45	No	1.3	No	3.0	No
71	Residential	County	LT-2	77.2	63.1	45	Yes	58.3	45	Yes	-4.8	Yes	1.5	No	45.1	45	Yes	40.3	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	62.7	45	Yes	58.0	45	Yes	-4.7	Yes	1.5	No	44.7	45	No	40.0	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	62.0	45	Yes	57.5	45	Yes	-4.5	Yes	1.5	No	44.0	45	No	39.5	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	68.5	45	Yes	64.1	45	Yes	-4.4	Yes	1.5	No	50.5	45	Yes	46.1	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.6	45	Yes	65.4	45	Yes	-4.2	Yes	1.5	No	51.6	45	Yes	47.4	45	Yes	-4.2	Yes	1.5	No
76	Residential	County	LT-2	77.2	74.3	45	Yes	74.1	45	Yes	-0.2	Yes	1.5	No	56.3	45	Yes	56.1	45	Yes	-0.2	Yes	1.5	No
77	Residential	County	LT-2	77.2	59.7	45	Yes	57.4	45	Yes	-2.3	Yes	1.5	No	41.7	45	No	39.4	45	No	-2.3	No	1.5	No
78	Residential	County	LT-2	77.2	57.5	45	Yes	57.3	45	Yes	-0.2	Yes	1.5	No	39.5	45	No	39.3	45	No	-0.2	No	1.5	No
79	Residential	County	LT-2	77.2	62.7	45	Yes	62.7	45	Yes	0.0	Yes	1.5	No	44.7	45	No	44.7	45	No	0.0	No	1.5	No
80	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes	0.0	Yes	1.5	No
81	Residential	County	LT-2	77.2	59.2	45	Yes	59.2	45	Yes	0.0	Yes	1.5	No	41.2	45	No	41.2	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	62.4	45	Yes	62.4	45	Yes	0.0	Yes	1.5	No	44.4	45	No	44.4	45	No	0.0	No	1.5	No
83	Residential	City	LT-3	66.5	42.9	45	No	50.6	45	Yes	7.7	Yes	1.5	Yes	24.9	45	No	32.6	45	No	7.7	No	1.5	Yes
84	Residential	City	LT-3	66.5	41.8	45	No	50.2	45	Yes	8.4	Yes	1.5	Yes	23.8	45	No	32.2	45	No	8.4	No	1.5	Yes
85	Residential	City	LT-3	66.5	62.3	45	Yes	61.7	45	Yes	-0.6	Yes	1.5	No	44.3	45	No	43.7	45	No	-0.6	No	1.5	No
86	Residential	City	LT-3	66.5	42.3	45	No	49.5	45	Yes	7.2	Yes	1.5	Yes	24.3	45	No	31.5	45	No	7.2	No	1.5	Yes
87	Residential	City	LT-3	66.5	40.6	45	No	49.9	45	Yes	9.3	Yes	1.5	Yes	22.6	45	No	31.9	45	No	9.3	No	1.5	Yes
88	Residential	City	LT-3	66.5	41.1	45	No	50.3	45	Yes	9.2	Yes	1.5	Yes	23.1	45	No	32.3	45	No	9.2	No	1.5	Yes
89	Residential	City	LT-3	66.5	41.1	45	No	50.4	45	Yes	9.3	Yes	1.5	Yes	23.1	45	No	32.4	45	No	9.3	No	1.5	Yes
90	Residential	City	LT-3	66.5	40.7	45	No	50.5	45	Yes	9.8	Yes	1.5	Yes	22.7	45	No	32.5	45	No	9.8	No	1.5	Yes

Interim Year 2033 Absolute Interior Noise Impact Analysis - With Noise Barriers																								
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{din} , L _{eq})	WINDOWS OPEN										WINDOWS CLOSED									
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
1	Residential	County	LT-3	66.5	55.0	45	Yes	57.4	45	Yes	2.4	Yes	1.5	Yes	37.0	45	No	39.4	45	No	2.4	No	1.5	Yes
2	Residential	County	LT-3	66.5	54.0	45	Yes	55.3	45	Yes	1.3	Yes	1.5	No	36.0	45	No	37.3	45	No	1.3	No	1.5	No
3	Residential	County	LT-3	66.5	55.1	45	Yes	55.5	45	Yes	0.4	Yes	1.5	No	37.1	45	No	37.5	45	No	0.4	No	1.5	No
4	Residential	City	LT-3	66.5	52.6	45	Yes	54.9	45	Yes	2.3	Yes	1.5	Yes	34.6	45	No	36.9	45	No	2.3	No	1.5	Yes
5	Residential	City	LT-3	66.5	54.3	45	Yes	54.9	45	Yes	0.6	Yes	1.5	No	36.3	45	No	36.9	45	No	0.6	No	1.5	No
6	Residential	City	LT-5	58.1	48.6	45	Yes	52.2	45	Yes	3.6	Yes	5.0	No	30.6	45	No	34.2	45	No	3.6	No	5.0	No
7	Residential	City	LT-5	58.1	57.7	45	Yes	57.2	45	Yes	-0.5	Yes	5.0	No	39.7	45	No	39.2	45	No	-0.5	No	5.0	No
8	Residential	County	LT-5	58.1	60.5	45	Yes	59.5	45	Yes	-1.0	Yes	5.0	No	42.5	45	No	41.5	45	No	-1.0	No	5.0	No
9	Residential	County	LT-5	58.1	61.9	45	Yes	60.9	45	Yes	-1.0	Yes	5.0	No	43.9	45	No	42.9	45	No	-1.0	No	5.0	No
10	Residential	County	LT-5	58.1	62.2	45	Yes	61.3	45	Yes	-0.9	Yes	5.0	No	44.2	45	No	43.3	45	No	-0.9	No	5.0	No
11	Residential	County	LT-5	58.1	62.5	45	Yes	61.6	45	Yes	-0.9	Yes	5.0	No	44.5	45	No	43.6	45	No	-0.9	No	5.0	No
12	Residential	County	LT-5	58.1	62.9	45	Yes	61.9	45	Yes	-1.0	Yes	5.0	No	44.9	45	No	43.9	45	No	-1.0	No	5.0	No
13	Residential	County	LT-5	58.1	63.3	45	Yes	62.3	45	Yes	-1.0	Yes	5.0	No	45.3	45	Yes	44.3	45	No	-1.0	No	5.0	No
14	Residential	County	LT-5	58.1	66.3	45	Yes	65.1	45	Yes	-1.2	Yes	5.0	No	48.3	45	Yes	47.1	45	Yes	-1.2	Yes	5.0	No
15	Residential	County	LT-5	58.1	68.1	45	Yes	66.8	45	Yes	-1.3	Yes	5.0	No	50.1	45	Yes	48.8	45	Yes	-1.3	Yes	5.0	No
16	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
17	Residential	County	LT-5	58.1	66.0	45	Yes	64.6	45	Yes	-1.4	Yes	5.0	No	48.0	45	Yes	46.6	45	Yes	-1.4	Yes	5.0	No
18	Residential	County	LT-5	58.1	64.1	45	Yes	62.9	45	Yes	-1.2	Yes	5.0	No	46.1	45	Yes	44.9	45	No	-1.2	No	5.0	No
19	Residential	County	LT-5	58.1	64.7	45	Yes	63.5	45	Yes	-1.2	Yes	5.0	No	46.7	45	Yes	45.5	45	Yes	-1.2	Yes	5.0	No
20	Residential	County	LT-5	58.1	64.9	45	Yes	63.7	45	Yes	-1.2	Yes	5.0	No	46.9	45	Yes	45.7	45	Yes	-1.2	Yes	5.0	No
21	Residential	County	LT-5	58.1	65.8	45	Yes	64.6	45	Yes	-1.2	Yes	5.0	No	47.8	45	Yes	46.6	45	Yes	-1.2	Yes	5.0	No
22	Residential	County	LT-5	58.1	65.6	45	Yes	64.4	45	Yes	-1.2	Yes	5.0	No	47.6	45	Yes	46.4	45	Yes	-1.2	Yes	5.0	No
23	Residential	County	LT-5	58.1	65.2	45	Yes	64.0	45	Yes	-1.2	Yes	5.0	No	47.2	45	Yes	46.0	45	Yes	-1.2	Yes	5.0	No
24	Residential	County	LT-5	58.1	66.7	45	Yes	65.4	45	Yes	-1.3	Yes	5.0	No	48.7	45	Yes	47.4	45	Yes	-1.3	Yes	5.0	No
25	Residential	County	LT-5	58.1	66.7	45	Yes	65.5	45	Yes	-1.2	Yes	5.0	No	48.7	45	Yes	47.5	45	Yes	-1.2	Yes	5.0	No
26	Residential	County	LT-5	58.1	66.8	45	Yes	65.6	45	Yes	-1.2	Yes	5.0	No	48.8	45	Yes	47.6	45	Yes	-1.2	Yes	5.0	No
27	Residential	County	LT-5	58.1	66.5	45	Yes	65.2	45	Yes	-1.3	Yes	5.0	No	48.5	45	Yes	47.2	45	Yes	-1.3	Yes	5.0	No
28	Residential	County	LT-5	58.1	67.6	45	Yes	66.3	45	Yes	-1.3	Yes	5.0	No	49.6	45	Yes	48.3	45	Yes	-1.3	Yes	5.0	No
29	Residential	County	LT-4	66.1	64.4	45	Yes	63.8	45	Yes	-0.6	Yes	1.5	No	46.4	45	Yes	45.8	45	Yes	-0.6	Yes	1.5	No
30	Residential	County	LT-4	66.1	69.0	45	Yes	68.8	45	Yes	-0.2	Yes	1.5	No	51.0	45	Yes	50.8	45	Yes	-0.2	Yes	1.5	No
31	Residential	County	LT-4	66.1	68.9	45	Yes	68.7	45	Yes	-0.2	Yes	1.5	No	50.9	45	Yes	50.7	45	Yes	-0.2	Yes	1.5	No
32	Residential	County	LT-4	66.1	68.9	45	Yes	68.6	45	Yes	-0.3	Yes	1.5	No	50.9	45	Yes	50.6	45	Yes	-0.3	Yes	1.5	No
33	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
34	Residential	County	LT-4	66.1	66.4	45	Yes	65.9	45	Yes	-0.5	Yes	1.5	No	48.4	45	Yes	47.9	45	Yes	-0.5	Yes	1.5	No
35	Residential	County	LT-4	66.1	66.5	45	Yes	66.0	45	Yes	-0.5	Yes	1.5	No	48.5	45	Yes	48.0	45	Yes	-0.5	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	69.1	-	No	68.8	-	No	-0.3	No	5.0	No	51.1	-	No	50.8	-	No	-0.3	No	5.0	No
37	Residential	County	LT-4	66.1	65.2	45	Yes	64.6	45	Yes	-0.6	Yes	1.5	No	47.2	45	Yes	46.6	45	Yes	-0.6	Yes	1.5	No
38	Residential	County	LT-4	66.1	64.8	45	Yes	64.2	45	Yes	-0.6	Yes	1.5	No	46.8	45	Yes	46.2	45	Yes	-0.6	Yes	1.5	No
39	Residential	County	LT-4	66.1	67.2	45	Yes	66.8	45	Yes	-0.4	Yes	1.5	No	49.2	45	Yes	48.8	45	Yes	-0.4	Yes	1.5	No
40	Residential	County	LT-4	66.1	67.0	45	Yes	66.7	45	Yes	-0.3	Yes	1.5	No	49.0	45	Yes	48.7	45	Yes	-0.3	Yes	1.5	No
41	Residential	County	LT-4	66.1	62.1	45	Yes	61.7	45	Yes	-0.4	Yes	1.5	No	44.1	45	No	43.7	45	No	-0.4	No	1.5	No
42	Residential	County	LT-4	66.1	61.4	45	Yes	61.0	45	Yes	-0.4	Yes	1.5	No	43.4	45	No	43.0	45	No	-0.4	No	1.5	No
43	Residential	County	LT-4	66.1	60.8	45	Yes	60.4	45	Yes	-0.4	Yes	1.5	No	42.8	45	No	42.4	45	No	-0.4	No	1.5	No
44	Residential	County	LT-4	66.1	60.2	45	Yes	59.9	45	Yes	-0.3	Yes	1.5	No	42.2	45	No	41.9	45	No	-0.3	No	1.5	No
45	Residential	County	LT-4	66.1	60.9	45	Yes	60.5	45	Yes	-0.4	Yes	1.5	No	42.9	45	No	42.5	45	No	-0.4	No	1.5	No
46	Residential	County	LT-4	66.1	60.1	45	Yes	59.8	45	Yes	-0.3	Yes	1.5	No	42.1	45	No	41.8	45	No	-0.3	No	1.5	No
47	Residential	County	LT-4	66.1	59.4	45	Yes	59.2	45	Yes	-0.2	Yes	1.5	No	41.4	45	No	41.2	45	No	-0.2	No	1.5	No
48	Residential	County	LT-4	66.1	59.0	45	Yes	58.9	45	Yes	-0.1	Yes	1.5	No	41.0	45	No	40.9	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	57.8	45	Yes	57.9	45	Yes	0.1	Yes	1.5	No	39.8	45	No	39.9	45	No	0.1	No	1.5	No
50	Residential	County	LT-4	66.1	57.5	45	Yes	57.8	45	Yes	0.3	Yes	1.5	No	39.5	45	No	39.8	45	No	0.3	No	1.5	No
51	Residential	County	LT-4	66.1	57.2	45	Yes	57.7	45	Yes	0.5	Yes	1.5	No	39.2	45	No	39.7	45	No	0.5	No	1.5	No
52	Residential	County	LT-1	61.2	51.2	45	Yes	50.2	45	Yes	-1.0	Yes	3.0	No	33.2	45	No	32.2	45	No	-1.0	No	3.0	No
53	Residential	County	LT-1	61.2	50.4	45	Yes	50.4	45	Yes	0.0	Yes	3.0	No	32.4	45	No	32.4	45	No	0.0	No	3.0	No
54	Residential	County	LT-2	77.2	62.4	45	Yes	61.1	45	Yes	-1.3	Yes	1.5	No	44.4	45	No	43.1	45	No	-1.3	No	1.5	No

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	66.7	45	Yes	65.2	45	Yes	-1.5	Yes	1.5	No	48.7	45	Yes	47.2	45	Yes	-1.5	Yes	1.5	No
56	Residential	County	LT-2	77.2	67.9	45	Yes	64.4	45	Yes	-3.5	Yes	1.5	No	49.9	45	Yes	46.4	45	Yes	-3.5	Yes	1.5	No
57	Residential	County	LT-2	77.2	67.2	45	Yes	62.7	45	Yes	-4.5	Yes	1.5	No	49.2	45	Yes	44.7	45	No	-4.5	No	1.5	No
58	Residential	County	LT-2	77.2	67.9	45	Yes	63.0	45	Yes	-4.9	Yes	1.5	No	49.9	45	Yes	45.0	45	No	-4.9	No	1.5	No
59	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
60	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
61	Residential	County	LT-2	77.2	69.5	45	Yes	64.5	45	Yes	-5.0	Yes	1.5	No	51.5	45	Yes	46.5	45	Yes	-5.0	Yes	1.5	No
62	Residential	County	LT-2	77.2	70.8	45	Yes	65.7	45	Yes	-5.1	Yes	1.5	No	52.8	45	Yes	47.7	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	65.0	45	Yes	60.1	45	Yes	-4.9	Yes	1.5	No	47.0	45	Yes	42.1	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	66.8	45	Yes	61.9	45	Yes	-4.9	Yes	1.5	No	48.8	45	Yes	43.9	45	No	-4.9	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	60.7	45	Yes	59.7	45	Yes	-1.0	Yes	5.0	No	42.7	45	No	41.7	45	No	-1.0	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	57.0	-	No	56.4	-	No	-0.6	No	5.0	No	39.0	-	No	38.4	-	No	-0.6	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	58.3	45	Yes	57.7	45	Yes	-0.6	Yes	5.0	No	40.3	45	No	39.7	45	No	-0.6	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	54.1	45	Yes	53.8	45	Yes	-0.3	Yes	5.0	No	36.1	45	No	35.8	45	No	-0.3	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	52.0	45	Yes	52.1	45	Yes	0.1	Yes	3.0	No	34.0	45	No	34.1	45	No	0.1	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	49.6	45	Yes	50.9	45	Yes	1.3	Yes	3.0	No	31.6	45	No	32.9	45	No	1.3	No	3.0	No
71	Residential	County	LT-2	77.2	63.1	45	Yes	58.3	45	Yes	-4.8	Yes	1.5	No	45.1	45	Yes	40.3	45	No	-4.8	No	1.5	No
72	Residential	County	LT-2	77.2	62.7	45	Yes	58.0	45	Yes	-4.7	Yes	1.5	No	44.7	45	No	40.0	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	62.0	45	Yes	57.5	45	Yes	-4.5	Yes	1.5	No	44.0	45	No	39.5	45	No	-4.5	No	1.5	No
74	Residential	County	LT-2	77.2	68.5	45	Yes	64.1	45	Yes	-4.4	Yes	1.5	No	50.5	45	Yes	46.1	45	Yes	-4.4	Yes	1.5	No
75	Residential	County	LT-2	77.2	69.6	45	Yes	65.4	45	Yes	-4.2	Yes	1.5	No	51.6	45	Yes	47.4	45	Yes	-4.2	Yes	1.5	No
76	Residential	County	LT-2	77.2	74.3	45	Yes	74.1	45	Yes	-0.2	Yes	1.5	No	56.3	45	Yes	56.1	45	Yes	-0.2	Yes	1.5	No
77	Residential	County	LT-2	77.2	59.7	45	Yes	57.4	45	Yes	-2.3	Yes	1.5	No	41.7	45	No	39.4	45	No	-2.3	No	1.5	No
78	Residential	County	LT-2	77.2	57.5	45	Yes	57.3	45	Yes	-0.2	Yes	1.5	No	39.5	45	No	39.3	45	No	-0.2	No	1.5	No
79	Residential	County	LT-2	77.2	62.7	45	Yes	62.7	45	Yes	0.0	Yes	1.5	No	44.7	45	No	44.7	45	No	0.0	No	1.5	No
80	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes	0.0	Yes	1.5	No
81	Residential	County	LT-2	77.2	59.2	45	Yes	59.2	45	Yes	0.0	Yes	1.5	No	41.2	45	No	41.2	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	62.4	45	Yes	62.4	45	Yes	0.0	Yes	1.5	No	44.4	45	No	44.4	45	No	0.0	No	1.5	No
83	Residential	City	LT-3	66.5	42.9	45	No	50.6	45	Yes	7.7	Yes	1.5	Yes	24.9	45	No	32.6	45	No	7.7	No	1.5	Yes
84	Residential	City	LT-3	66.5	41.8	45	No	50.1	45	Yes	8.3	Yes	1.5	Yes	23.8	45	No	32.1	45	No	8.3	No	1.5	Yes
85	Residential	City	LT-3	66.5	62.3	45	Yes	61.7	45	Yes	-0.6	Yes	1.5	No	44.3	45	No	43.7	45	No	-0.6	No	1.5	No
86	Residential	City	LT-3	66.5	42.3	45	No	49.5	45	Yes	7.2	Yes	1.5	Yes	24.3	45	No	31.5	45	No	7.2	No	1.5	Yes
87	Residential	City	LT-3	66.5	40.6	45	No	49.9	45	Yes	9.3	Yes	1.5	Yes	22.6	45	No	31.9	45	No	9.3	No	1.5	Yes
88	Residential	City	LT-3	66.5	41.1	45	No	50.3	45	Yes	9.2	Yes	1.5	Yes	23.1	45	No	32.3	45	No	9.2	No	1.5	Yes
89	Residential	City	LT-3	66.5	41.1	45	No	50.4	45	Yes	9.3	Yes	1.5	Yes	23.1	45	No	32.4	45	No	9.3	No	1.5	Yes
90	Residential	City	LT-3	66.5	40.7	45	No	50.5	45	Yes	9.8	Yes	1.5	Yes	22.7	45	No	32.5	45	No	9.8	No	1.5	Yes

Horizon Year 2048 Absolute Interior Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED						
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
1	Residential	County	LT-3	66.5	56.0	45	Yes	58.1	45	Yes	2.1	Yes	1.5	Yes	38.0	45	No	40.1	45	No
2	Residential	County	LT-3	66.5	54.9	45	Yes	55.7	45	Yes	0.8	Yes	1.5	No	36.9	45	No	37.7	45	No
3	Residential	County	LT-3	66.5	56.1	45	Yes	56.0	45	Yes	-0.1	Yes	1.5	No	38.1	45	No	38.0	45	No
4	Residential	City	LT-3	66.5	53.6	45	Yes	55.4	45	Yes	1.8	Yes	1.5	Yes	35.6	45	No	37.4	45	No
5	Residential	City	LT-3	66.5	55.3	45	Yes	55.2	45	Yes	-0.1	Yes	1.5	No	37.3	45	No	37.2	45	No
6	Residential	City	LT-5	58.1	49.6	45	Yes	52.4	45	Yes	2.8	Yes	5.0	No	31.6	45	No	34.4	45	No
7	Residential	City	LT-5	58.1	58.7	45	Yes	58.0	45	Yes	-0.7	Yes	5.0	No	40.7	45	No	40.0	45	No
8	Residential	County	LT-5	58.1	61.5	45	Yes	60.6	45	Yes	-0.9	Yes	5.0	No	43.5	45	No	42.6	45	No
9	Residential	County	LT-5	58.1	62.9	45	Yes	62.0	45	Yes	-0.9	Yes	5.0	No	44.9	45	No	44.0	45	No
10	Residential	County	LT-5	58.1	63.2	45	Yes	62.4	45	Yes	-0.8	Yes	5.0	No	45.2	45	Yes	44.4	45	No
11	Residential	County	LT-5	58.1	63.5	45	Yes	62.7	45	Yes	-0.8	Yes	5.0	No	45.5	45	Yes	44.7	45	No
12	Residential	County	LT-5	58.1	63.9	45	Yes	63.0	45	Yes	-0.9	Yes	5.0	No	45.9	45	Yes	45.0	45	No
13	Residential	County	LT-5	58.1	64.3	45	Yes	63.4	45	Yes	-0.9	Yes	5.0	No	46.3	45	Yes	45.4	45	Yes
14	Residential	County	LT-5	58.1	67.3	45	Yes	66.2	45	Yes	-1.1	Yes	5.0	No	49.3	45	Yes	48.2	45	Yes
15	Residential	County	LT-5	58.1	69.1	45	Yes	67.9	45	Yes	-1.2	Yes	5.0	No	51.1	45	Yes	49.9	45	Yes
16	Residential	County	LT-5	58.1	67.0	45	Yes	65.7	45	Yes	-1.3	Yes	5.0	No	49.0	45	Yes	47.7	45	Yes
17	Residential	County	LT-5	58.1	67.0	45	Yes	65.8	45	Yes	-1.2	Yes	5.0	No	49.0	45	Yes	47.8	45	Yes
18	Residential	County	LT-5	58.1	65.1	45	Yes	64.0	45	Yes	-1.1	Yes	5.0	No	47.1	45	Yes	46.0	45	Yes
19	Residential	County	LT-5	58.1	65.7	45	Yes	64.6	45	Yes	-1.1	Yes	5.0	No	47.7	45	Yes	46.6	45	Yes
20	Residential	County	LT-5	58.1	65.9	45	Yes	64.9	45	Yes	-1.0	Yes	5.0	No	47.9	45	Yes	46.9	45	Yes
21	Residential	County	LT-5	58.1	66.8	45	Yes	65.8	45	Yes	-1.0	Yes	5.0	No	48.8	45	Yes	47.8	45	Yes
22	Residential	County	LT-5	58.1	66.5	45	Yes	65.5	45	Yes	-1.0	Yes	5.0	No	48.5	45	Yes	47.5	45	Yes
23	Residential	County	LT-5	58.1	66.1	45	Yes	65.1	45	Yes	-1.0	Yes	5.0	No	48.1	45	Yes	47.1	45	Yes
24	Residential	County	LT-5	58.1	67.6	45	Yes	66.6	45	Yes	-1.0	Yes	5.0	No	49.6	45	Yes	48.6	45	Yes
25	Residential	County	LT-5	58.1	67.7	45	Yes	66.6	45	Yes	-1.1	Yes	5.0	No	49.7	45	Yes	48.6	45	Yes
26	Residential	County	LT-5	58.1	67.8	45	Yes	66.7	45	Yes	-1.1	Yes	5.0	No	49.8	45	Yes	48.7	45	Yes
27	Residential	County	LT-5	58.1	67.5	45	Yes	66.4	45	Yes	-1.1	Yes	5.0	No	49.5	45	Yes	48.4	45	Yes
28	Residential	County	LT-5	58.1	68.6	45	Yes	67.4	45	Yes	-1.2	Yes	5.0	No	50.6	45	Yes	49.4	45	Yes
29	Residential	County	LT-4	66.1	65.4	45	Yes	64.9	45	Yes	-0.5	Yes	1.5	No	47.4	45	Yes	46.9	45	Yes
30	Residential	County	LT-4	66.1	69.9	45	Yes	70.0	45	Yes	0.1	Yes	1.5	No	51.9	45	Yes	52.0	45	Yes
31	Residential	County	LT-4	66.1	69.9	45	Yes	69.8	45	Yes	-0.1	Yes	1.5	No	51.9	45	Yes	51.8	45	Yes
32	Residential	County	LT-4	66.1	69.8	45	Yes	69.7	45	Yes	-0.1	Yes	1.5	No	51.8	45	Yes	51.7	45	Yes
33	Residential	County	LT-4	66.1	67.3	45	Yes	67.0	45	Yes	-0.3	Yes	1.5	No	49.3	45	Yes	49.0	45	Yes
34	Residential	County	LT-4	66.1	67.4	45	Yes	67.1	45	Yes	-0.3	Yes	1.5	No	49.4	45	Yes	49.1	45	Yes
35	Residential	County	LT-4	66.1	67.5	45	Yes	67.2	45	Yes	-0.3	Yes	1.5	No	49.5	45	Yes	49.2	45	Yes
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	70.1	-	No	70.0	-	No	-0.1	No	5.0	No	52.1	-	No	52.0	-	No
37	Residential	County	LT-4	66.1	66.2	45	Yes	65.8	45	Yes	-0.4	Yes	1.5	No	48.2	45	Yes	47.8	45	Yes
38	Residential	County	LT-4	66.1	65.7	45	Yes	65.3	45	Yes	-0.4	Yes	1.5	No	47.7	45	Yes	47.3	45	Yes
39	Residential	County	LT-4	66.1	68.2	45	Yes	67.9	45	Yes	-0.3	Yes	1.5	No	50.2	45	Yes	49.9	45	Yes
40	Residential	County	LT-4	66.1	67.9	45	Yes	67.8	45	Yes	-0.1	Yes	1.5	No	49.9	45	Yes	49.8	45	Yes
41	Residential	County	LT-4	66.1	63.1	45	Yes	62.7	45	Yes	-0.4	Yes	1.5	No	45.1	45	Yes	44.7	45	No
42	Residential	County	LT-4	66.1	62.4	45	Yes	62.1	45	Yes	-0.3	Yes	1.5	No	44.4	45	No	44.1	45	No
43	Residential	County	LT-4	66.1	61.7	45	Yes	61.4	45	Yes	-0.3	Yes	1.5	No	43.7	45	No	43.4	45	No
44	Residential	County	LT-4	66.1	61.2	45	Yes	60.9	45	Yes	-0.3	Yes	1.5	No	43.2	45	No	42.9	45	No
45	Residential	County	LT-4	66.1	61.9	45	Yes	61.6	45	Yes	-0.3	Yes	1.5	No	43.9	45	No	43.6	45	No

Horizon Year 2048 Absolute Interior Noise Impact Analysis - Without Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED						
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?
46	Residential	County	LT-4	66.1	61.1	45	Yes	60.8	45	Yes	-0.3	Yes	1.5	No	43.1	45	No	42.8	45	No
47	Residential	County	LT-4	66.1	60.4	45	Yes	60.2	45	Yes	-0.2	Yes	1.5	No	42.4	45	No	42.2	45	No
48	Residential	County	LT-4	66.1	60.0	45	Yes	59.9	45	Yes	-0.1	Yes	1.5	No	42.0	45	No	41.9	45	No
49	Residential	County	LT-4	66.1	58.8	45	Yes	58.8	45	Yes	0.0	Yes	1.5	No	40.8	45	No	40.8	45	No
50	Residential	County	LT-4	66.1	58.5	45	Yes	58.6	45	Yes	0.1	Yes	1.5	No	40.5	45	No	40.6	45	No
51	Residential	County	LT-4	66.1	58.2	45	Yes	58.5	45	Yes	0.3	Yes	1.5	No	40.2	45	No	40.5	45	No
52	Residential	County	LT-1	61.2	52.2	45	Yes	50.5	45	Yes	-1.7	Yes	3.0	No	34.2	45	No	32.5	45	No
53	Residential	County	LT-1	61.2	51.4	45	Yes	50.7	45	Yes	-0.7	Yes	3.0	No	33.4	45	No	32.7	45	No
54	Residential	County	LT-2	77.2	63.3	45	Yes	62.4	45	Yes	-0.9	Yes	1.5	No	45.3	45	Yes	44.4	45	No
55	Residential	County	LT-2	77.2	67.7	45	Yes	66.5	45	Yes	-1.2	Yes	1.5	No	49.7	45	Yes	48.5	45	Yes
56	Residential	County	LT-2	77.2	68.9	45	Yes	65.5	45	Yes	-3.4	Yes	1.5	No	50.9	45	Yes	47.5	45	Yes
57	Residential	County	LT-2	77.2	68.2	45	Yes	63.6	45	Yes	-4.6	Yes	1.5	No	50.2	45	Yes	45.6	45	Yes
58	Residential	County	LT-2	77.2	68.9	45	Yes	63.9	45	Yes	-5.0	Yes	1.5	No	50.9	45	Yes	45.9	45	Yes
59	Residential	County	LT-2	77.2	67.8	45	Yes	62.8	45	Yes	-5.0	Yes	1.5	No	49.8	45	Yes	44.8	45	No
60	Residential	County	LT-2	77.2	66.0	45	Yes	61.0	45	Yes	-5.0	Yes	1.5	No	48.0	45	Yes	43.0	45	No
61	Residential	County	LT-2	77.2	70.5	45	Yes	65.4	45	Yes	-5.1	Yes	1.5	No	52.5	45	Yes	47.4	45	Yes
62	Residential	County	LT-2	77.2	71.7	45	Yes	66.6	45	Yes	-5.1	Yes	1.5	No	53.7	45	Yes	48.6	45	Yes
63	Residential	County	LT-2	77.2	65.9	45	Yes	61.0	45	Yes	-4.9	Yes	1.5	No	47.9	45	Yes	43.0	45	No
64	Residential	County	LT-2	77.2	67.8	45	Yes	62.8	45	Yes	-5.0	Yes	1.5	No	49.8	45	Yes	44.8	45	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	61.6	45	Yes	60.8	45	Yes	-0.8	Yes	5.0	No	43.6	45	No	42.8	45	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	58.0	-	No	57.4	-	No	-0.6	No	5.0	No	40.0	-	No	39.4	-	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	59.3	45	Yes	58.8	45	Yes	-0.5	Yes	5.0	No	41.3	45	No	40.8	45	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	55.1	45	Yes	54.8	45	Yes	-0.3	Yes	5.0	No	37.1	45	No	36.8	45	No
69 (Ingels School)	School	County	LT-6	64.8	53.0	45	Yes	53.1	45	Yes	0.1	Yes	3.0	No	35.0	45	No	35.1	45	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	50.6	45	Yes	51.7	45	Yes	1.1	Yes	3.0	No	32.6	45	No	33.7	45	No
71	Residential	County	LT-2	77.2	64.0	45	Yes	59.3	45	Yes	-4.7	Yes	1.5	No	46.0	45	Yes	41.3	45	No
72	Residential	County	LT-2	77.2	63.6	45	Yes	58.9	45	Yes	-4.7	Yes	1.5	No	45.6	45	Yes	40.9	45	No
73	Residential	County	LT-2	77.2	63.0	45	Yes	58.4	45	Yes	-4.6	Yes	1.5	No	45.0	45	No	40.4	45	No
74	Residential	County	LT-2	77.2	69.5	45	Yes	65.0	45	Yes	-4.5	Yes	1.5	No	51.5	45	Yes	47.0	45	Yes
75	Residential	County	LT-2	77.2	70.6	45	Yes	66.3	45	Yes	-4.3	Yes	1.5	No	52.6	45	Yes	48.3	45	Yes
76	Residential	County	LT-2	77.2	75.3	45	Yes	75.1	45	Yes	-0.2	Yes	1.5	No	57.3	45	Yes	57.1	45	Yes
77	Residential	County	LT-2	77.2	60.7	45	Yes	58.3	45	Yes	-2.4	Yes	1.5	No	42.7	45	No	40.3	45	No
78	Residential	County	LT-2	77.2	58.5	45	Yes	58.3	45	Yes	-0.2	Yes	1.5	No	40.5	45	No	40.3	45	No
79	Residential	County	LT-2	77.2	63.6	45	Yes	63.6	45	Yes	0.0	Yes	1.5	No	45.6	45	Yes	45.6	45	Yes
80	Residential	County	LT-2	77.2	64.4	45	Yes	64.4	45	Yes	0.0	Yes	1.5	No	46.4	45	Yes	46.4	45	Yes
81	Residential	County	LT-2	77.2	60.2	45	Yes	60.2	45	Yes	0.0	Yes	1.5	No	42.2	45	No	42.2	45	No
82	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes
83	Residential	City	LT-3	66.5	43.8	45	No	50.8	45	Yes	7.0	Yes	1.5	Yes	25.8	45	No	32.8	45	No
84	Residential	City	LT-3	66.5	42.8	45	No	50.3	45	Yes	7.5	Yes	1.5	Yes	24.8	45	No	32.3	45	No
85	Residential	City	LT-3	66.5	63.3	45	Yes	62.8	45	Yes	-0.5	Yes	1.5	No	45.3	45	Yes	44.8	45	No
86	Residential	City	LT-3	66.5	43.3	45	No	49.7	45	Yes	6.4	Yes	1.5	Yes	25.3	45	No	31.7	45	No
87	Residential	City	LT-3	66.5	41.5	45	No	50.0	45	Yes	8.5	Yes	1.5	Yes	23.5	45	No	32.0	45	No
88	Residential	City	LT-3	66.5	42.1	45	No	50.4	45	Yes	8.3	Yes	1.5	Yes	24.1	45	No	32.4	45	No
89	Residential	City	LT-3	66.5	42.1	45	No	50.5	45	Yes	8.4	Yes	1.5	Yes	24.1	45	No	32.5	45	No
90	Residential	City	LT-3	66.5	41.7	45	No	50.6	45	Yes	8.9	Yes	1.5	Yes	23.7	45	No	32.6	45	No

Horizon Year 2048 Absolute Interior Noise Impact Analysis - With Noise Barriers

Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dn} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn				Ldn			Ldn			Ldn						
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Ldn	Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)		Exceeds Standard?	Ldn	Exceeds Standard?
1	Residential	County	LT-3	66.5	56.0	45	Yes	54.2	45	Yes	-1.8	Yes	1.5	No	38.0	45	No	36.2	45	No	-1.8	No	1.5	No
2	Residential	County	LT-3	66.5	54.9	45	Yes	53.9	45	Yes	-1.0	Yes	1.5	No	36.9	45	No	35.9	45	No	-1.0	No	1.5	No
3	Residential	County	LT-3	66.5	56.1	45	Yes	53.3	45	Yes	-2.8	Yes	1.5	No	38.1	45	No	35.3	45	No	-2.8	No	1.5	No
4	Residential	City	LT-3	66.5	53.6	45	Yes	53.0	45	Yes	-0.6	Yes	1.5	No	35.6	45	No	35.0	45	No	-0.6	No	1.5	No
5	Residential	City	LT-3	66.5	55.3	45	Yes	52.6	45	Yes	-2.7	Yes	1.5	No	37.3	45	No	34.6	45	No	-2.7	No	1.5	No
6	Residential	City	LT-5	58.1	49.6	45	Yes	51.3	45	Yes	1.7	Yes	5.0	No	31.6	45	No	33.3	45	No	1.7	No	5.0	No
7	Residential	City	LT-5	58.1	58.7	45	Yes	58.0	45	Yes	-0.7	Yes	5.0	No	40.7	45	No	40.0	45	No	-0.7	No	5.0	No
8	Residential	County	LT-5	58.1	61.5	45	Yes	60.6	45	Yes	-0.9	Yes	5.0	No	43.5	45	No	42.6	45	No	-0.9	No	5.0	No
9	Residential	County	LT-5	58.1	62.9	45	Yes	62.0	45	Yes	-0.9	Yes	5.0	No	44.9	45	No	44.0	45	No	-0.9	No	5.0	No
10	Residential	County	LT-5	58.1	63.2	45	Yes	62.4	45	Yes	-0.8	Yes	5.0	No	45.2	45	Yes	44.4	45	No	-0.8	No	5.0	No
11	Residential	County	LT-5	58.1	63.5	45	Yes	62.7	45	Yes	-0.8	Yes	5.0	No	45.5	45	Yes	44.7	45	No	-0.8	No	5.0	No
12	Residential	County	LT-5	58.1	63.9	45	Yes	63.0	45	Yes	-0.9	Yes	5.0	No	45.9	45	Yes	45.0	45	No	-0.9	No	5.0	No
13	Residential	County	LT-5	58.1	64.3	45	Yes	63.4	45	Yes	-0.9	Yes	5.0	No	46.3	45	Yes	45.4	45	Yes	-0.9	Yes	5.0	No
14	Residential	County	LT-5	58.1	67.3	45	Yes	66.2	45	Yes	-1.1	Yes	5.0	No	49.3	45	Yes	48.2	45	Yes	-1.1	Yes	5.0	No
15	Residential	County	LT-5	58.1	69.1	45	Yes	67.9	45	Yes	-1.2	Yes	5.0	No	51.1	45	Yes	49.9	45	Yes	-1.2	Yes	5.0	No
16	Residential	County	LT-5	58.1	67.0	45	Yes	65.7	45	Yes	-1.3	Yes	5.0	No	49.0	45	Yes	47.7	45	Yes	-1.3	Yes	5.0	No
17	Residential	County	LT-5	58.1	67.0	45	Yes	65.8	45	Yes	-1.2	Yes	5.0	No	49.0	45	Yes	47.8	45	Yes	-1.2	Yes	5.0	No
18	Residential	County	LT-5	58.1	65.1	45	Yes	64.0	45	Yes	-1.1	Yes	5.0	No	47.1	45	Yes	46.0	45	Yes	-1.1	Yes	5.0	No
19	Residential	County	LT-5	58.1	65.7	45	Yes	64.6	45	Yes	-1.1	Yes	5.0	No	47.7	45	Yes	46.6	45	Yes	-1.1	Yes	5.0	No
20	Residential	County	LT-5	58.1	65.9	45	Yes	64.9	45	Yes	-1.0	Yes	5.0	No	47.9	45	Yes	46.9	45	Yes	-1.0	Yes	5.0	No
21	Residential	County	LT-5	58.1	66.8	45	Yes	65.8	45	Yes	-1.0	Yes	5.0	No	48.8	45	Yes	47.8	45	Yes	-1.0	Yes	5.0	No
22	Residential	County	LT-5	58.1	66.5	45	Yes	65.5	45	Yes	-1.0	Yes	5.0	No	48.5	45	Yes	47.5	45	Yes	-1.0	Yes	5.0	No
23	Residential	County	LT-5	58.1	66.1	45	Yes	65.1	45	Yes	-1.0	Yes	5.0	No	48.1	45	Yes	47.1	45	Yes	-1.0	Yes	5.0	No
24	Residential	County	LT-5	58.1	67.6	45	Yes	66.6	45	Yes	-1.0	Yes	5.0	No	49.6	45	Yes	48.6	45	Yes	-1.0	Yes	5.0	No
25	Residential	County	LT-5	58.1	67.7	45	Yes	66.6	45	Yes	-1.1	Yes	5.0	No	49.7	45	Yes	48.6	45	Yes	-1.1	Yes	5.0	No
26	Residential	County	LT-5	58.1	67.8	45	Yes	66.7	45	Yes	-1.1	Yes	5.0	No	49.8	45	Yes	48.7	45	Yes	-1.1	Yes	5.0	No
27	Residential	County	LT-5	58.1	67.5	45	Yes	66.4	45	Yes	-1.1	Yes	5.0	No	49.5	45	Yes	48.4	45	Yes	-1.1	Yes	5.0	No
28	Residential	County	LT-5	58.1	68.6	45	Yes	67.4	45	Yes	-1.2	Yes	5.0	No	50.6	45	Yes	49.4	45	Yes	-1.2	Yes	5.0	No
29	Residential	County	LT-4	66.1	65.4	45	Yes	64.9	45	Yes	-0.5	Yes	1.5	No	47.4	45	Yes	46.9	45	Yes	-0.5	Yes	1.5	No
30	Residential	County	LT-4	66.1	69.9	45	Yes	70.0	45	Yes	0.1	Yes	1.5	No	51.9	45	Yes	52.0	45	Yes	0.1	Yes	1.5	No
31	Residential	County	LT-4	66.1	69.9	45	Yes	69.8	45	Yes	-0.1	Yes	1.5	No	51.9	45	Yes	51.8	45	Yes	-0.1	Yes	1.5	No
32	Residential	County	LT-4	66.1	69.8	45	Yes	69.7	45	Yes	-0.1	Yes	1.5	No	51.8	45	Yes	51.7	45	Yes	-0.1	Yes	1.5	No
33	Residential	County	LT-4	66.1	67.3	45	Yes	67.0	45	Yes	-0.3	Yes	1.5	No	49.3	45	Yes	49.0	45	Yes	-0.3	Yes	1.5	No
34	Residential	County	LT-4	66.1	67.4	45	Yes	67.1	45	Yes	-0.3	Yes	1.5	No	49.4	45	Yes	49.1	45	Yes	-0.3	Yes	1.5	No
35	Residential	County	LT-4	66.1	67.5	45	Yes	67.2	45	Yes	-0.3	Yes	1.5	No	49.5	45	Yes	49.2	45	Yes	-0.3	Yes	1.5	No
36 (Jasper Park)	Park/Recreation	County	ST-1	58.8	70.1	-	No	70.0	-	No	-0.1	No	5.0	No	52.1	-	No	52.0	-	No	-0.1	No	5.0	No
37	Residential	County	LT-4	66.1	66.2	45	Yes	65.8	45	Yes	-0.4	Yes	1.5	No	48.2	45	Yes	47.8	45	Yes	-0.4	Yes	1.5	No
38	Residential	County	LT-4	66.1	65.7	45	Yes	65.3	45	Yes	-0.4	Yes	1.5	No	47.7	45	Yes	47.3	45	Yes	-0.4	Yes	1.5	No
39	Residential	County	LT-4	66.1	68.2	45	Yes	67.9	45	Yes	-0.3	Yes	1.5	No	50.2	45	Yes	49.9	45	Yes	-0.3	Yes	1.5	No
40	Residential	County	LT-4	66.1	67.9	45	Yes	67.8	45	Yes	-0.1	Yes	1.5	No	49.9	45	Yes	49.8	45	Yes	-0.1	Yes	1.5	No
41	Residential	County	LT-4	66.1	63.1	45	Yes	62.7	45	Yes	-0.4	Yes	1.5	No	45.1	45	Yes	44.7	45	No	-0.4	No	1.5	No
42	Residential	County	LT-4	66.1	62.4	45	Yes	62.1	45	Yes	-0.3	Yes	1.5	No	44.4	45	No	44.1	45	No	-0.3	No	1.5	No
43	Residential	County	LT-4	66.1	61.7	45	Yes	61.4	45	Yes	-0.3	Yes	1.5	No	43.7	45	No	43.4	45	No	-0.3	No	1.5	No
44	Residential	County	LT-4	66.1	61.2	45	Yes	60.9	45	Yes	-0.3	Yes	1.5	No	43.2	45	No	42.9	45	No	-0.3	No	1.5	No
45	Residential	County	LT-4	66.1	61.9	45	Yes	61.6	45	Yes	-0.3	Yes	1.5	No	43.9	45	No	43.6	45	No	-0.3	No	1.5	No
46	Residential	County	LT-4	66.1	61.1	45	Yes	60.8	45	Yes	-0.3	Yes	1.5	No	43.1	45	No	42.8	45	No	-0.3	No	1.5	No
47	Residential	County	LT-4	66.1	60.4	45	Yes	60.2	45	Yes	-0.2	Yes	1.5	No	42.4	45	No	42.2	45	No	-0.2	No	1.5	No
48	Residential	County	LT-4	66.1	60.0	45	Yes	59.9	45	Yes	-0.1	Yes	1.5	No	42.0	45	No	41.9	45	No	-0.1	No	1.5	No
49	Residential	County	LT-4	66.1	58.8	45	Yes	58.8	45	Yes	0.0	Yes	1.5	No	40.8	45	No	40.8	45	No	0.0	No	1.5	No
50	Residential	County	LT-4	66.1	58.5	45	Yes	58.6	45	Yes	0.1	Yes	1.5	No	40.5	45	No	40.6	45	No	0.1	No	1.5	No
51	Residential	County	LT-4	66.1	58.2	45	Yes	58.5	45	Yes	0.3	Yes	1											

Horizon Year 2048 Absolute Interior Noise Impact Analysis - With Noise Barriers																								
Receptor #	Land Use	Jurisdiction	Representative Measurement Location	Measured Ambient Noise Level (L _{dnr} , L _{eq})	WINDOWS OPEN									WINDOWS CLOSED										
					NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis			NO PROJECT			WITH PROJECT			Comparison	FICAN Incremental Increase Impact Analysis		
					Ldn			Ldn			Ldn	Ldn			Ldn			Ldn			Ldn	Ldn		
					Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?	Modeled Noise Level	Noise Standard (dBA)	Exceeds Standard?		Exceeds Standard?	Incremental Criteria	Impact?
55	Residential	County	LT-2	77.2	67.7	45	Yes	66.5	45	Yes	-1.2	Yes	1.5	No	49.7	45	Yes	48.5	45	Yes	-1.2	Yes	1.5	No
56	Residential	County	LT-2	77.2	68.9	45	Yes	65.5	45	Yes	-3.4	Yes	1.5	No	50.9	45	Yes	47.5	45	Yes	-3.4	Yes	1.5	No
57	Residential	County	LT-2	77.2	68.2	45	Yes	63.6	45	Yes	-4.6	Yes	1.5	No	50.2	45	Yes	45.6	45	Yes	-4.6	Yes	1.5	No
58	Residential	County	LT-2	77.2	68.9	45	Yes	63.9	45	Yes	-5.0	Yes	1.5	No	50.9	45	Yes	45.9	45	Yes	-5.0	Yes	1.5	No
59	Residential	County	LT-2	77.2	67.8	45	Yes	62.8	45	Yes	-5.0	Yes	1.5	No	49.8	45	Yes	44.8	45	No	-5.0	No	1.5	No
60	Residential	County	LT-2	77.2	66.0	45	Yes	61.0	45	Yes	-5.0	Yes	1.5	No	48.0	45	Yes	43.0	45	No	-5.0	No	1.5	No
61	Residential	County	LT-2	77.2	70.5	45	Yes	65.4	45	Yes	-5.1	Yes	1.5	No	52.5	45	Yes	47.4	45	Yes	-5.1	Yes	1.5	No
62	Residential	County	LT-2	77.2	71.7	45	Yes	66.6	45	Yes	-5.1	Yes	1.5	No	53.7	45	Yes	48.6	45	Yes	-5.1	Yes	1.5	No
63	Residential	County	LT-2	77.2	65.9	45	Yes	61.0	45	Yes	-4.9	Yes	1.5	No	47.9	45	Yes	43.0	45	No	-4.9	No	1.5	No
64	Residential	County	LT-2	77.2	67.8	45	Yes	62.8	45	Yes	-5.0	Yes	1.5	No	49.8	45	Yes	44.8	45	No	-5.0	No	1.5	No
65 (Lenwood Elementary School)	School	County	ST-2	54.9	61.6	45	Yes	60.8	45	Yes	-0.8	Yes	5.0	No	43.6	45	No	42.8	45	No	-0.8	No	5.0	No
66 (Lenwood Park)	Park/Recreation	County	ST-2	54.9	58.0	-	No	57.4	-	No	-0.6	No	5.0	No	40.0	-	No	39.4	-	No	-0.6	No	5.0	No
67 (Missionary Baptist Church)	Church	County	ST-1	58.8	59.3	45	Yes	58.8	45	Yes	-0.5	Yes	5.0	No	41.3	45	No	40.8	45	No	-0.5	No	5.0	No
68 (Saint Phillip Church)	Church	County	ST-3	43.8	55.1	45	Yes	54.8	45	Yes	-0.3	Yes	5.0	No	37.1	45	No	36.8	45	No	-0.3	No	5.0	No
69 (Ingels School)	School	County	LT-6	64.8	53.0	45	Yes	53.1	45	Yes	0.1	Yes	3.0	No	35.0	45	No	35.1	45	No	0.1	No	3.0	No
70 (Grandview Baptist Church)	Church	County	LT-6	64.8	50.6	45	Yes	51.7	45	Yes	1.1	Yes	3.0	No	32.6	45	No	33.7	45	No	1.1	No	3.0	No
71	Residential	County	LT-2	77.2	64.0	45	Yes	59.3	45	Yes	-4.7	Yes	1.5	No	46.0	45	Yes	41.3	45	No	-4.7	No	1.5	No
72	Residential	County	LT-2	77.2	63.6	45	Yes	58.9	45	Yes	-4.7	Yes	1.5	No	45.6	45	Yes	40.9	45	No	-4.7	No	1.5	No
73	Residential	County	LT-2	77.2	63.0	45	Yes	58.4	45	Yes	-4.6	Yes	1.5	No	45.0	45	No	40.4	45	No	-4.6	No	1.5	No
74	Residential	County	LT-2	77.2	69.5	45	Yes	65.0	45	Yes	-4.5	Yes	1.5	No	51.5	45	Yes	47.0	45	Yes	-4.5	Yes	1.5	No
75	Residential	County	LT-2	77.2	70.6	45	Yes	66.3	45	Yes	-4.3	Yes	1.5	No	52.6	45	Yes	48.3	45	Yes	-4.3	Yes	1.5	No
76	Residential	County	LT-2	77.2	75.3	45	Yes	75.1	45	Yes	-0.2	Yes	1.5	No	57.3	45	Yes	57.1	45	Yes	-0.2	Yes	1.5	No
77	Residential	County	LT-2	77.2	60.7	45	Yes	58.3	45	Yes	-2.4	Yes	1.5	No	42.7	45	No	40.3	45	No	-2.4	No	1.5	No
78	Residential	County	LT-2	77.2	58.5	45	Yes	58.3	45	Yes	-0.2	Yes	1.5	No	40.5	45	No	40.3	45	No	-0.2	No	1.5	No
79	Residential	County	LT-2	77.2	63.6	45	Yes	63.6	45	Yes	0.0	Yes	1.5	No	45.6	45	Yes	45.6	45	Yes	0.0	Yes	1.5	No
80	Residential	County	LT-2	77.2	64.4	45	Yes	64.4	45	Yes	0.0	Yes	1.5	No	46.4	45	Yes	46.4	45	Yes	0.0	Yes	1.5	No
81	Residential	County	LT-2	77.2	60.2	45	Yes	60.2	45	Yes	0.0	Yes	1.5	No	42.2	45	No	42.2	45	No	0.0	No	1.5	No
82	Residential	County	LT-2	77.2	63.4	45	Yes	63.4	45	Yes	0.0	Yes	1.5	No	45.4	45	Yes	45.4	45	Yes	0.0	Yes	1.5	No
83	Residential	City	LT-3	66.5	43.8	45	No	51.1	45	Yes	7.3	Yes	1.5	Yes	25.8	45	No	33.1	45	No	7.3	No	1.5	Yes
84	Residential	City	LT-3	66.5	42.8	45	No	50.8	45	Yes	8.0	Yes	1.5	Yes	24.8	45	No	32.8	45	No	8.0	No	1.5	Yes
85	Residential	City	LT-3	66.5	63.3	45	Yes	62.8	45	Yes	-0.5	Yes	1.5	No	45.3	45	Yes	44.8	45	No	-0.5	No	1.5	No
86	Residential	City	LT-3	66.5	43.3	45	No	49.9	45	Yes	6.6	Yes	1.5	Yes	25.3	45	No	31.9	45	No	6.6	No	1.5	Yes
87	Residential	City	LT-3	66.5	41.5	45	No	50.2	45	Yes	8.7	Yes	1.5	Yes	23.5	45	No	32.2	45	No	8.7	No	1.5	Yes
88	Residential	City	LT-3	66.5	42.1	45	No	50.6	45	Yes	8.5	Yes	1.5	Yes	24.1	45	No	32.6	45	No	8.5	No	1.5	Yes
89	Residential	City	LT-3	66.5	42.1	45	No	50.7	45	Yes	8.6	Yes	1.5	Yes	24.1	45	No	32.7	45	No	8.6	No	1.5	Yes
90	Residential	City	LT-3	66.5	41.7	45	No	50.8	45	Yes	9.1	Yes	1.5	Yes	23.7	45	No	32.8	45	No	9.1	No	1.5	Yes

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Existing
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium %	Heavy %	CNEL at 100 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	3,610	40	0.5	4.6%	1.9%	57.7	-	32	70	150
2		Country Club Drive to Lenwood Road	2	0	3,610	40	0.5	4.6%	1.9%	57.7	-	32	70	150
3		Lenwood Road to County/City Boundary	4	0	9,650	35	0.5	4.6%	2.9%	61.6	-	59	127	273
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	9,650	40	0.5	4.6%	2.9%	62.6	-	69	149	321
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	4	0	8,320	40	0.5	4.6%	4.6%	62.8	-	71	154	331
6		SR 58 Westbound Ramps to L Street	4	0	6,990	25	0.5	4.6%	6.9%	61.3	-	57	123	265
7		L Street to Avenue A	2	0	12,800	25	0.5	13.4%	1.2%	61.4	-	57	123	266
8		Avenue A to Barstow Road	2	0	12,190	25	0.5	10.0%	1.4%	60.6	-	51	110	238
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	11,070	40	0.5	8.5%	0.7%	63.4	-	79	169	365
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	11,100	40	0.5	7.2%	2.2%	63.9	-	84	182	391
11		I-15 Northbound ramps to Rimrock Road	2	60	11,140	40	0.5	5.9%	3.7%	64.3	-	90	194	417
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	1,290	55	0.5	10.6%	10.8%	59.7	-	44	96	206
13		Community Boulevard to Agate Road	2	0	1,290	45	0.5	10.6%	10.8%	58.3	-	36	77	166
14		Agate Road to Jasper Road	2	0	3,830	45	0.5	12.8%	2.6%	61.2	-	56	121	260
15		Jasper Road to Main Street	2	0	6,370	45	0.5	13.2%	1.0%	63.0	34	73	158	341
16		Main Street to High Desert Road	2	0	3,610	35	0.5	10.5%	6.7%	60.0	-	47	100	216
17		High Desert Road to I-15 SB Off Ramp	4	0	10,590	50	0.5	8.4%	4.0%	66.2	56	121	260	561
18	Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	8,980	35	0.5	7.0%	3.5%	62.2	-	65	139	300
19		SR 58 Westbound Ramp to Project Driveway	2	0	360	25	0.5	11.4%	3.9%	47.5	-	-	-	-
20		Project Driveway to Main Street ²	2	0	360	25	0.5	11.4%	3.9%	47.5	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Opening Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	5,046	40	0.5	4.4%	11.7%	62.9	34	73	157	337
2		Country Club Drive to Lenwood Road	2	0	4,465	40	0.5	5.0%	10.7%	62.2	-	65	140	301
3		Lenwood Road to County/City Boundary	4	0	9,341	35	0.5	4.9%	3.4%	61.8	-	61	131	283
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	9,341	40	0.5	4.9%	3.4%	62.8	-	71	154	331
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	4	0	7,902	40	0.5	5.1%	5.5%	63.1	-	75	161	346
6		SR 58 Westbound Ramps to L Street	4	0	6,837	25	0.5	5.1%	8.4%	62.0	-	63	135	292
7		L Street to Avenue A	2	0	12,797	25	0.5	13.4%	1.3%	61.5	-	58	126	271
8		Avenue A to Barstow Road	2	0	12,218	25	0.5	10.0%	1.4%	60.7	-	51	111	239
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	11,754	40	0.5	8.1%	0.8%	63.6	-	81	174	374
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	12,399	40	0.5	6.6%	2.4%	64.3	-	90	194	417
11		I-15 Northbound ramps to Rimrock Road	2	60	13,209	40	0.5	5.2%	3.8%	64.9	-	99	213	459
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	1,202	55	0.5	11.6%	9.3%	59.3	-	41	89	192
13		Community Boulevard to Agate Road	2	0	1,100	45	0.5	13.0%	10.2%	57.8	-	33	71	153
14		Agate Road to Jasper Road	2	0	3,929	45	0.5	13.9%	5.8%	62.4	-	67	145	313
15		Jasper Road to Main Street	2	0	5,930	45	0.5	16.0%	5.5%	64.4	43	92	198	426
16		Main Street to High Desert Road	2	0	5,051	35	0.5	9.3%	20.3%	64.4	43	92	198	426
17		High Desert Road to I-15 SB Off Ramp	4	0	12,735	50	0.5	7.7%	9.5%	68.4	78	168	362	781
18	Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	10,929	35	0.5	6.2%	6.5%	64.2	-	88	190	410
19		SR 58 Westbound Ramp to Project Driveway	2	0	348	25	0.5	12.1%	4.6%	47.9	-	-	-	33
20		Project Driveway to Main Street ²	2	0	370	25	0.5	11.1%	3.8%	47.5	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Opening Year Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	5,396	40	0.5	4.1%	11.0%	63.0	34	73	158	340
2		Country Club Drive to Lenwood Road	2	0	6,942	40	0.5	3.2%	12.6%	64.4	42	91	196	422
3		Lenwood Road to County/City Boundary	4	0	10,645	35	0.5	4.3%	3.4%	62.2	-	65	140	301
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	10,645	40	0.5	4.3%	3.4%	63.2	-	76	163	352
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramp	4	0	10,041	40	0.5	4.0%	4.8%	63.6	-	80	173	373
6		SR 58 Westbound Ramps to L Street	4	0	8,583	25	0.5	4.1%	6.7%	62.1	-	64	137	295
7		L Street to Avenue A	2	0	13,670	25	0.5	12.6%	1.3%	61.5	-	59	127	273
8		Avenue A to Barstow Road	2	0	12,917	25	0.5	9.4%	1.3%	60.7	-	52	112	241
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	12,191	40	0.5	7.8%	0.7%	63.7	-	81	175	378
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	12,923	40	0.5	6.3%	2.3%	64.4	-	91	195	421
11		I-15 Northbound ramps to Rimrock Road	2	60	13,297	40	0.5	5.1%	3.8%	64.9	-	99	214	460
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	2,008	55	0.5	6.9%	18.7%	62.5	-	68	146	314
13		Community Boulevard to Agate Road	2	0	2,517	45	0.5	5.7%	14.9%	61.5	-	58	125	270
14		Agate Road to Jasper Road	2	0	6,306	45	0.5	8.6%	7.8%	64.2	41	89	191	411
15		Jasper Road to Main Street	2	0	11,166	45	0.5	8.5%	7.0%	66.5	58	125	269	581
16		Main Street to High Desert Road	2	0	9,179	35	0.5	5.1%	14.3%	65.5	50	108	233	502
17		High Desert Road to I-15 SB Off Ramp	4	0	16,689	50	0.5	5.9%	9.0%	69.1	88	189	407	876
18	Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	12,513	35	0.5	5.4%	6.9%	64.8	45	97	208	448
19		SR 58 Westbound Ramp to Project Driveway	2	0	418	25	0.5	10.0%	3.8%	47.9	-	-	-	34
20		Project Driveway to Main Street ²	-	-	-	-	-	-	-	-	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Interim Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	6,482	40	0.5	4.3%	17.2%	65.2	48	104	223	481
2		Country Club Drive to Lenwood Road	2	0	5,319	40	0.5	5.2%	16.6%	64.4	42	91	195	420
3		Lenwood Road to County/City Boundary	4	0	9,031	35	0.5	5.2%	3.8%	62.0	-	63	135	291
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	9,031	40	0.5	5.2%	3.8%	63.0	-	73	158	340
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramp	4	0	7,484	40	0.5	5.7%	6.6%	63.4	-	78	168	361
6		SR 58 Westbound Ramps to L Street	4	0	6,683	25	0.5	5.7%	9.9%	62.5	-	69	148	318
7		L Street to Avenue A	2	0	12,793	25	0.5	13.5%	1.5%	61.6	-	60	128	276
8		Avenue A to Barstow Road	2	0	12,245	25	0.5	10.0%	1.4%	60.7	-	52	111	240
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	12,438	40	0.5	7.7%	0.8%	63.8	-	83	178	383
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	13,698	40	0.5	6.1%	2.6%	64.7	-	95	205	442
11		I-15 Northbound ramps to Rimrock Road	2	60	15,277	40	0.5	4.6%	3.9%	65.5	-	108	232	499
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	1,113	55	0.5	12.7%	7.5%	58.8	-	38	83	178
13		Community Boulevard to Agate Road	2	0	910	45	0.5	16.4%	9.2%	57.2	-	-	65	139
14		Agate Road to Jasper Road	2	0	4,028	45	0.5	14.9%	8.8%	63.4	36	78	168	361
15		Jasper Road to Main Street	2	0	5,489	45	0.5	19.2%	10.7%	65.5	50	108	234	503
16		Main Street to High Desert Road	2	0	6,492	35	0.5	8.6%	27.8%	66.6	59	127	275	592
17		High Desert Road to I-15 SB Off Ramp	4	0	14,880	50	0.5	7.2%	13.5%	69.8	97	209	451	972
18		I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	12,877	35	0.5	5.6%	8.7%	65.6	51	109	235	507
19	Hinkley Rd	SR 58 Westbound Ramp to Project Driveway	2	0	336	25	0.5	12.5%	4.8%	47.8	-	-	-	33
20		Project Driveway to Main Street ²	2	0	379	25	0.5	10.8%	3.7%	47.5	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Interim Year + Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	6,934	40	0.5	4.0%	16.1%	65.3	48	104	224	483
2		Country Club Drive to Lenwood Road	2	0	8,292	40	0.5	3.3%	16.7%	66.1	55	118	255	549
3		Lenwood Road to County/City Boundary	4	0	10,692	35	0.5	4.4%	3.8%	62.5	-	68	146	315
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	10,692	40	0.5	4.4%	3.8%	63.5	-	79	170	366
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	4	0	10,250	40	0.5	4.2%	5.3%	63.9	-	85	183	395
6		SR 58 Westbound Ramps to L Street	4	0	8,941	25	0.5	4.2%	7.4%	62.6	-	69	150	322
7		L Street to Avenue A	2	0	13,979	25	0.5	12.3%	1.3%	61.7	-	60	129	279
8		Avenue A to Barstow Road	2	0	13,036	25	0.5	9.4%	1.4%	60.7	-	52	112	241
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	12,947	40	0.5	7.4%	0.8%	63.8	-	83	180	387
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	14,348	40	0.5	5.8%	2.4%	64.8	-	96	207	447
11		I-15 Northbound ramps to Rimrock Road	2	60	15,390	40	0.5	4.6%	3.9%	65.5	-	108	232	500
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	2,027	55	0.5	7.0%	20.3%	62.7	33	71	152	328
13		Community Boulevard to Agate Road	2	0	2,558	45	0.5	5.8%	16.1%	61.8	-	61	131	283
14		Agate Road to Jasper Road	2	0	6,861	45	0.5	8.8%	9.9%	65.1	47	102	220	474
15		Jasper Road to Main Street	2	0	12,466	45	0.5	8.4%	9.4%	67.6	69	148	319	687
16		Main Street to High Desert Road	2	0	12,114	35	0.5	4.6%	18.0%	67.5	68	146	314	676
17		High Desert Road to I-15 SB Off Ramp	4	0	19,825	50	0.5	5.4%	12.0%	70.5	108	233	502	1,082
18	Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	14,983	35	0.5	4.8%	8.7%	66.1	55	119	256	552
19		SR 58 Westbound Ramp to Project Driveway	2	0	429	25	0.5	9.8%	3.7%	48.0	-	-	-	34
20		Project Driveway to Main Street ²	2	0	-	-	-	-	-	-	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Horizon Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway Distance to Contour				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	10,790	40	0.5	4.1%	24.8%	68.7	82	177	381	822
2		Country Club Drive to Lenwood Road	2	0	7,880	40	0.5	5.6%	26.7%	67.7	71	152	328	706
3		Lenwood Road to County/City Boundary	4	0	8,101	35	0.5	6.4%	5.5%	62.5	-	68	147	317
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	8,101	40	0.5	6.4%	5.5%	63.4	-	79	170	-
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramp	4	0	6,229	40	0.5	7.9%	10.5%	64.1	-	87	187	403
6		SR 58 Westbound Ramps to L Street	4	0	6,221	25	0.5	7.5%	15.0%	63.9	-	84	181	390
7		L Street to Avenue A	2	0	12,780	25	0.5	13.6%	1.8%	61.9	-	62	135	290
8		Avenue A to Barstow Road	2	0	12,325	25	0.5	9.9%	1.5%	60.8	-	52	112	242
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	14,488	40	0.5	6.7%	0.9%	64.2	-	88	190	410
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	17,594	40	0.5	5.0%	2.9%	65.6	-	110	238	513
11		I-15 Northbound ramps to Rimrock Road	2	60	21,481	40	0.5	3.7%	4.1%	66.8	-	131	283	610
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	846	55	0.5	17.3%	0.1%	56.7	-	-	61	130
13		Community Boulevard to Agate Road	2	0	339	45	0.5	48.7%	0.1%	54.5	-	-	43	-
14		Agate Road to Jasper Road	2	0	4,323	45	0.5	17.8%	16.9%	65.3	49	105	227	-
15		Jasper Road to Main Street	2	0	4,166	45	0.5	32.9%	32.8%	67.7	71	152	328	706
16		Main Street to High Desert Road	2	0	10,814	35	0.5	7.6%	38.4%	69.9	99	213	460	991
17		High Desert Road to I-15 SB Off Ramp	4	0	21,313	50	0.5	6.3%	20.5%	72.5	146	315	678	1,461
18	Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	18,721	35	0.5	4.7%	12.4%	68.2	75	162	350	754
19		SR 58 Westbound Ramp to Project Driveway	2	0	299	25	0.5	13.7%	4.8%	47.5	-	-	-	-
20		Project Driveway to Main Street ²	2	0	406	25	0.5	10.1%	3.5%	47.6	-	-	-	-

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

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: BIG Barstow
Project Number: 195165003
Scenario: Horizon Year Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:
 Total ADT Volumes Day Evening Night
 Medium-Duty Trucks 77.70% 12.70% 9.60%
 Heavy-Duty Trucks 87.43% 5.05% 7.52%
 89.10% 2.84% 8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium %	Heavy %	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	2	0	11,300	40	0.5	3.9%	23.7%	68.7	82	177	382	824
2		Country Club Drive to Lenwood Road	2	0	11,300	40	0.5	3.9%	23.7%	68.7	82	177	382	824
3		Lenwood Road to County/City Boundary	4	0	10,000	35	0.5	5.2%	5.2%	63.0	-	74	160	344
4		County/City Boundary to SR 58 Eastbound Ramps	4	0	10,000	40	0.5	5.2%	5.2%	64.0	-	85	184	396
5		SR 58 Eastbound Off Ramps to SR 58 Westbound Ramp	4	0	9,400	40	0.5	5.2%	7.7%	64.7	44	95	205	441
6		SR 58 Westbound Ramps to L Street	4	0	8,800	25	0.5	5.3%	10.6%	63.9	-	85	183	395
7		L Street to Avenue A	2	0	14,200	25	0.5	12.2%	1.7%	62.0	-	63	136	293
8		Avenue A to Barstow Road	2	0	13,100	25	0.5	9.3%	1.4%	60.8	-	52	113	244
9	Barstow Road	Main Street to I-15 Southbound Ramps	2	60	15,000	40	0.5	6.5%	0.9%	64.3	-	89	192	414
10		I-15 Southbound Ramps to I-15 Northbound Ramps	2	60	18,300	40	0.5	4.8%	2.8%	65.7	-	111	240	517
11		I-15 Northbound ramps to Rimrock Road	2	60	21,600	40	0.5	3.6%	4.0%	66.8	-	132	283	611
12	Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	2	0	2,100	55	0.5	7.0%	7.9%	60.6	-	51	110	238
13		Community Boulevard to Agate Road	2	0	2,300	45	0.5	7.2%	9.3%	60.0	-	46	100	215
14		Agate Road to Jasper Road	2	0	7,400	45	0.5	10.4%	15.5%	66.8	61	131	283	609
15		Jasper Road to Main Street	2	0	12,400	45	0.5	11.0%	16.8%	69.3	90	193	416	897
16		Main Street to High Desert Road	2	0	17,600	35	0.5	4.7%	26.1%	70.4	107	231	497	1,070
17		High Desert Road to I-15 SB Off Ramp	4	0	26,800	50	0.5	5.0%	18.0%	72.9	157	337	727	1,566
18		I-15 SB Off Ramp to I-15 NB Off Ramp	4	0	21,200	35	0.5	4.1%	12.0%	68.5	80	172	370	798
19	Hinkley Rd	SR 58 Westbound Ramp to Project Driveway	2	0	400	25	0.5	10.3%	3.6%	47.6	-	-	-	32
20		Project Driveway to Main Street ²	-	-	-	-	-	-	-	-	-	-	-	-

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

Traffic Noise Modeling Results – Project Level

Exterior Impact Analysis - 2028

[illegible]

Exterior Impact Analysis - 2033

[illegible]

Exterior Impact Analysis - 2048

[illegible]

Interior Impact Analysis - 2048

Roadway	Segment	WINDOWS OPEN															WINDOWS CLOSED																								
		Horizon Year (2048) No Project	Horizon Year (2048) No Project at Receivers	Horizon Year (2048) Plus Project	Incremental Increase Threshold	Increase	Exceeds Threshold?	Land Use Type	City					County					Horizon Year (2048) No Project	Horizon Year (2048) No Project at Receivers	Horizon Year (2048) Plus Project	Incremental Increase Threshold	Increase	Exceeds Threshold?	Land Use Type	City				County											
									Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Impact?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor								Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Impact?
Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	58.7	56.5	58.7	3.0	0.0	No	SF Residential	-	-	-	-	-	140.0	56.5	45.0	Yes	No	40.7	38.5	40.7	3.0	0.0	No	SF Residential	-	-	-	-	140.0	38.5	45.0	No	No							
	Country Club Drive to Lenwood Road	57.7	57.1	58.7	3.0	1.0	No	SF Residential	110	58.1	45	Yes	-	-	-	-	No	39.7	39.1	40.7	3.0	1.0	No	SF Residential	110	40.1	45	No	-	-	-	-	No								
	Lenwood Road to County/City Boundary	52.5	55.8	53.0	3.0	0.5	No	SF Residential	60	56.4	45	Yes	-	-	-	-	No	34.5	37.8	35.0	3.0	0.5	-	SF Residential	60	38.4	45	No	-	-	-	-	No								
	County/City Boundary to SR 58 Eastbound Ramps	52.5	40.3	53.0	3.0	0.5	No	Commercial	650.0	40.8	-	No	-	-	-	-	No	34.5	22.3	35.0	3.0	0.5	No	Commercial	650.0	22.8	-	No	-	-	-	-	No								
	SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	54.1	N/A	54.7	3.0	0.6	No	N/A	-	-	-	No	-	-	-	-	No	36.1	N/A	36.7	3.0	0.6	No	N/A	-	-	-	-	-	-	-	-	No								
	SR 58 Westbound Ramps to L Street	53.9	57.8	53.9	5.0	0.1	No	SF Residential	55.0	57.8	45.0	Yes	-	-	-	-	No	35.9	39.8	35.9	5.0	0.1	No	SF Residential	55.0	39.8	45.0	No	-	-	-	-	No								
	L Street to Avenue A	51.9	55.8	52.0	3.0	0.1	No	MF Residential	55.0	55.9	45.0	Yes	-	-	-	-	No	33.9	37.8	34.0	3.0	0.1	No	MF Residential	55.0	37.9	45.0	No	-	-	-	-	No								
	Avenue A to Barstow Road	50.8	46.2	50.8	3.0	0.0	No	MF Residential	200.0	46.3	45.0	Yes	-	-	-	-	No	32.8	28.2	32.8	3.0	0.0	No	MF Residential	200.0	28.3	45.0	No	-	-	-	-	No								
Barstow Road	Main Street to I-15 Southbound Ramps	54.2	61.0	54.3	3.0	0.1	No	SF Residential	35.0	61.1	45.0	Yes	-	-	-	-	No	36.2	43.0	36.3	3.0	0.1	No	SF Residential	35.0	43.1	45.0	No	-	-	-	-	No								
	I-15 Southbound Ramps to I-15 Northbound Ramps	55.6	47.5	55.7	3.0	0.1	No	SF Residential	350.0	47.5	45.0	Yes	-	-	-	-	No	37.6	29.5	37.7	3.0	0.1	No	SF Residential	350.0	29.5	45.0	No	-	-	-	-	No								
	I-15 Northbound ramps to Rimrock Road	56.8	59.6	56.8	3.0	0.0	No	MF Residential	65.0	59.6	45.0	Yes	-	-	-	-	No	38.8	41.6	38.8	3.0	0.0	No	MF Residential	65.0	41.6	45.0	No	-	-	-	-	No								
Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	46.7	50.1	50.6	5.0	3.9	No	SF Residential	-	-	-	-	-	60.0	54.0	45.0	Yes	No	28.7	32.1	32.6	5.0	3.9	No	SF Residential	-	-	-	-	60.0	36.0	45.0	No	No							
	Community Boulevard to Agate Road	44.5	34.7	50.0	5.0	5.5	Yes	SF Residential	-	-	-	-	-	450.0	40.2	45.0	No	No	26.5	16.7	32.0	5.0	5.5	-	SF Residential	-	-	-	-	450.0	22.2	45.0	No	No							
	Agate Road to Jasper Road	55.3	56.8	56.8	5.0	1.4	No	SF Residential	-	-	-	-	-	80.0	58.2	45.0	Yes	No	37.3	38.8	38.8	5.0	1.4	-	SF Residential	-	-	-	-	80.0	40.2	45.0	No	No							
	Jasper Road to Main Street	57.7	45.3	59.3	3.0	1.6	No	SF Residential	-	-	-	-	-	670.0	46.9	45.0	Yes	No	39.7	27.3	41.3	3.0	1.6	No	SF Residential	-	-	-	-	670.0	28.9	45.0	No	No							
	Main Street to High Desert Road	59.9	62.3	60.4	5.0	0.5	No	SF Residential	70.0	62.8	45.0	Yes	-	-	-	-	No	41.9	44.3	42.4	5.0	0.5	No	SF Residential	70.0	44.8	45.0	No	-	-	-	-	Yes								
	High Desert Road to I-15 SB Off Ramp	62.5	49.3	62.9	1.5	0.5	No	Commercial	750.0	49.8	45.0	Yes	-	-	-	-	No	44.5	31.3	44.9	1.5	0.5	No	Commercial	750.0	31.8	45.0	No	-	-	-	-	No								
Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	58.2	54.3	58.5	1.5	0.4	No	Commercial	180.0	54.7	45.0	Yes	-	-	-	-	No	40.2	36.3	40.5	1.5	0.4	No	Commercial	180.0	36.7	45.0	No	-	-	-	-	No								
	SR 58 Westbound Ramp to Project Driveway	37.5	38.5	37.6	5.0	0.1	No	SF Residential	-	-	-	-	-	85.0	38.7	45.0	No	No	19.5	20.5	19.6	5.0	0.1	No	SF Residential	-	-	-	-	85.0	20.7	45.0	No	No							
	Project Driveway to Main Street²	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									

²Hotels do not have operable windows

Traffic Noise Modeling Results – Cumulative

Cumulative Exterior Impact Analysis - 2028

[illegible]

Cumulative Exterior Impact Analysis - 2033

[illegible]

Mitigated (MM NOI-3) Exterior Impact Analysis - 2033

Roadway	Segment	Interim Year (2033) No Project	Interim Year (2033) No Project at Receiver	Interim Year (2033) Plus Project	Incremental Increase Threshold	Increase	Exceeds Threshold?	Land Use Type	City				County				Notes		
									Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?		Impact?	
Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	65.2	63.0	65.3	3.0	0.0	No	SF Residential	-	-	-	-	140.0	63.1	60.0	Yes	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	*Country Club Drive to Lenwood Road	64.4	63.7	62.1	3.0	-2.3	No	SF Residential	110	61.5	65	No	-	-	-	-	No		
	Lenwood Road to County/City Boundary	62.0	65.3	62.5	3.0	0.5	No	SF Residential	60	65.8	65	Yes	-	-	-	-	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	County/City Boundary to SR 58 Eastbound Ramps	62.0	49.8	63.5	3.0	1.5	No	Commercial	650.0	51.3	65	No	-	-	-	-	No		There are no receptors along this segment.
	SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	63.4	-	63.9	3.0	0.6	No	N/A	-	-	-	-	-	-	-	-	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	SR 58 Westbound Ramps to L Street	62.5	66.4	62.6	5.0	0.1	No	SF Residential	55.0	66.5	65	Yes	-	-	-	-	No		
	L Street to Avenue A	61.6	65.5	61.7	3.0	0.1	No	MF Residential	55.0	65.6	65	Yes	-	-	-	-	No		No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.
	Avenue A to Barstow Road	60.7	56.2	60.7	3.0	0.0	No	MF Residential	200.0	56.2	65	No	-	-	-	-	No		
Barstow Road	Main Street to I-15 Southbound Ramps	63.8	70.6	63.8	3.0	0.1	No	SF Residential	35.0	70.7	65	Yes	-	-	-	-	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	I-15 Southbound Ramps to I-15 Northbound Ramps	64.7	56.5	64.8	3.0	0.1	No	SF Residential	350.0	56.6	65	No	-	-	-	-	No		
	I-15 Northbound ramps to Rimrock Road	65.5	68.3	65.5	3.0	0.0	No	MF Residential	65.0	68.3	65	Yes	-	-	-	-	No		No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.
Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	58.8	62.1	62.7	5.0	4.0	No	SF Residential	-	-	-	-	60.0	66.1	60.0	Yes	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	Community Boulevard to Agate Road	57.2	47.4	61.8	5.0	4.6	No	SF Residential	-	-	-	-	450.0	52.0	60.0	No	No		
	Agate Road to Jasper Road	63.4	64.8	65.1	5.0	1.8	No	SF Residential	-	-	-	-	80.0	66.6	60.0	Yes	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	Jasper Road to National Trails Highway	65.5	53.1	67.6	3.0	2.0	No	SF Residential	-	-	-	-	670.0	55.2	60.0	No	No		
	Main Street to High Desert Road	66.6	68.9	67.5	5.0	0.9	No	SF Residential	70.0	69.8	65	Yes	-	-	-	-	No	No Impact because existing noise level already exceeds standard, and project increase is below incremental threshold.	
	High Desert Road to I-15 SB Off Ramp	69.8	56.7	70.5	1.5	0.7	No	Commercial	750.0	57.4	65	No	-	-	-	-	No		
	I-15 SB Off Ramp to I-15 NB Off Ramp	65.6	61.7	66.1	1.5	0.6	No	Commercial	180.0	62.3	-	No	-	-	-	-	No		
Hinkley Rd	SR 58 Westbound Ramp to Project Driveway	47.8	48.9	48.0	5.0	0.1	No	SF Residential	-	-	-	-	85.0	49.0	60.0	No	No		
	Project Driveway to Main Street ²	47.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

*MM NOI-3 requires rubberized asphalt along impacted roadway segment, which would reduce traffic noise levels by approximately 4 dBA. Thus, a 4 dBA reduction for With BIG traffic conditions has been applied along this roadway segment.

Mitigated (MM NOI-3) Interior Impact Analysis - 2033

Roadway	Segment	WINDOWS OPEN																WINDOWS CLOSED																			
		Interim Year (2033) No Project	Interim Year (2033) No Project at Receiver	Interim Year (2033) Plus Project	Incremental Increase Threshold	Increase	Exceeds Threshold?	Land Use Type	City				County				Interim Year (2033) No Project	Interim Year (2033) No Project At Receiver	Interim Year (2033) Plus Project	Incremental Increase Threshold	Increase	Exceeds Threshold?	Land Use Type	City				County									
									Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?								Impact?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Distance to Nearest Receptor	Traffic Noise Level At Receptor	Noise Standard	Exceeds Standard?	Impact?
Main Street (National Trails Hwy)	Hinkley Road to Country Club Drive	55.2	53.0	55.3	3.0	0.0	No	SF Residential	-	-	-	-	140.0	53.1	45.0	Yes	No	37.2	35.0	37.3	3.0	0.0	No	SF Residential	-	-	-	-	140.0	35.1	45.0	No	No				
	Country Club Drive to Lenwood Road	54.4	53.7	56.1	3.0	1.7	No	SF Residential	110	55.5	45	Yes	-	-	-	-	No	36.4	35.7	38.1	3.0	1.7	No	SF Residential	110	37.5	45	No	-	-	-	-	No				
	Lenwood Road to County/City Boundary	52.0	55.3	52.5	3.0	0.5	No	SF Residential	60	55.8	45	Yes	-	-	-	-	No	34.0	37.3	34.5	3.0	0.5	No	SF Residential	60	37.8	45	No	-	-	-	-	No				
	County/City Boundary to SR 58 Eastbound Ramps	52.0	39.8	52.5	3.0	0.5	No	Commercial	650.0	40.3	-	No	-	-	-	-	No	34.0	21.8	34.5	3.0	0.5	No	Commercial	650.0	22.3	-	No	-	-	-	-	No				
	SR 58 Eastbound Off Ramps to SR 58 Westbound Ramps	53.4	N/A	53.9	3.0	0.6	No	N/A	-	-	-	No	-	-	-	-	No	35.4	N/A	35.9	3.0	0.6	No	N/A	-	-	-	-	-	-	-	-	No				
	SR 58 Westbound Ramps to L Street	52.5	56.4	52.6	5.0	0.1	No	SF Residential	55.0	56.5	45.0	Yes	-	-	-	-	No	34.5	38.4	34.6	5.0	0.1	No	SF Residential	55.0	38.5	45.0	No	-	-	-	-	No				
	L Street to Avenue A	51.6	55.5	51.7	3.0	0.1	No	MF Residential	55.0	55.6	45.0	Yes	-	-	-	-	No	33.6	37.5	33.7	3.0	0.1	No	MF Residential	55.0	37.6	45.0	No	-	-	-	-	No				
	Avenue A to Barstow Road	50.7	46.2	50.7	3.0	0.0	No	MF Residential	200.0	46.2	45.0	Yes	-	-	-	-	No	32.7	28.2	32.7	3.0	0.0	No	MF Residential	200.0	28.2	45.0	No	-	-	-	-	No				
Barstow Road	Main Street to I-15 Southbound Ramps	53.8	60.6	53.8	3.0	0.1	No	SF Residential	35.0	60.7	45.0	Yes	-	-	-	-	No	35.8	42.6	35.8	3.0	0.1	No	SF Residential	35.0	42.7	45.0	No	-	-	-	-	No				
	I-15 Southbound Ramps to I-15 Northbound Ramps	54.7	46.5	54.8	3.0	0.1	No	SF Residential	350.0	46.6	45.0	Yes	-	-	-	-	No	36.7	28.5	36.8	3.0	0.1	No	SF Residential	350.0	28.6	45.0	No	-	-	-	-	No				
	I-15 Northbound ramps to Rimrock Road	55.5	58.3	55.5	3.0	0.0	No	MF Residential	65.0	58.3	45.0	Yes	-	-	-	-	No	37.5	40.3	37.5	3.0	0.0	No	MF Residential	65.0	40.3	45.0	No	-	-	-	-	No				
Lenwood Rd	SR 58 Westbound Ramps to Community Boulevard	48.8	52.1	52.7	5.0	4.0	No	SF Residential	-	-	-	-	60.0	56.1	45.0	Yes	No	30.8	34.1	34.7	5.0	4.0	No	SF Residential	-	-	-	-	60.0	38.1	45.0	No	No				
	Community Boulevard to Agate Road	47.2	37.4	51.8	5.0	4.6	No	SF Residential	-	-	-	-	450.0	42.0	45.0	No	No	29.2	19.4	33.8	5.0	4.6	No	SF Residential	-	-	-	-	450.0	24.0	45.0	No	No				
	Agate Road to Jasper Road	53.4	54.8	55.1	5.0	1.8	No	SF Residential	-	-	-	-	80.0	56.6	45.0	Yes	No	35.4	36.8	37.1	5.0	1.8	No	SF Residential	-	-	-	-	80.0	38.6	45.0	No	No				
	*Jasper Road to Main Street	55.5	43.1	53.6	3.0	-2.0	No	SF Residential	-	-	-	-	670.0	41.2	45.0	No	No	37.5	25.1	39.6	3.0	2.0	No	SF Residential	-	-	-	-	670.0	27.2	45.0	No	No				
	Main Street to High Desert Road	56.6	58.9	57.5	5.0	0.9	No	SF Residential	70.0	59.8	45.0	Yes	-	-	-	-	No	38.6	40.9	39.5	5.0	0.9	No	SF Residential	70.0	41.8	45.0	No	-	-	-	-	No				
	High Desert Road to I-15 SB Off Ramp	59.8	46.7	60.5	1.5	0.7	No	Commercial	750.0	47.4	50.0	No	-	-	-	-	No	41.8	28.7	42.5	1.5	0.7	No	Commercial	750.0	29.4	50.0	No	-	-	-	-	No				
Hinkley Rd	I-15 SB Off Ramp to I-15 NB Off Ramp	55.6	51.7	56.1	1.5	0.6	No	Commercial	180.0	52.3	50.0	Yes	-	-	-	-	No	37.6	33.7	38.1	1.5	0.6	No	Commercial	180.0	34.3	50.0	No	-	-	-	-	No				
	SR 58 Westbound Ramp to Project Driveway	37.8	38.9	38.0	5.0	0.1	No	SF Residential	-	-	-	-	85.0	39.0	45.0	No	No	19.8	20.9	20.0	5.0	0.1	No	SF Residential	-	-	-	-	85.0	21.0	45.0	No	No				
	Project Driveway to Main Street²	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No					

*MM NOI-3 requires rubberized asphalt along impacted roadway segment, which would reduce traffic noise levels by approximately 4 dBA. Thus, a 4 dBA reduction for With BIG traffic conditions has been applied along this roadway segment.

Nearest Receptor - Lead Tracks - Locomotive

Receptor Distance (ft) 165 **Residence**
73.44 from FTA manual PDF page 150

50 mph 0
Total VdB **73.44**

Receptor Distance (ft) 600 **School**
59.44 from FTA manual PDF page 150

40 mph -1.9
 57.54

	Events	FTA Vdb threshold
Land Category 2 (residential)	<30	80
	30-70	75
Land Category 3 (Institutional)	<30	83
	30-70	78



Figure 6-1 Existing Vibration⁴⁸ Criteria Flow Chart

3c. Apply criteria to freight trains if part of the project.

Use the criteria presented in Step 3a to assess the vibration from freight trains in shared ROW scenarios because no specific impact criteria exist for freight railroads. It is important to consider that freight operations occur over substantially greater distances than passenger train operations and have different weight and axle loads.

When assessing vibration from freight train operations, consider the locomotive and rail car vibration separately. Since locomotive vibration lasts for a very short time, it can be characterized by the infrequent events category in Table 6-2. Rail car vibration from a typical line-haul freight train usually lasts for several minutes and can be characterized by the frequent events category in Table 6-2. Note

⁴⁸ Vibration is abbreviated as "vib." in this flowchart.

Table 6-9 Ground Surface Vibration Level Base Curve Descriptions

Curve	Description
Locomotive-Powered Passenger or Freight Curve	Appropriate for vehicles powered by diesel or electric locomotives including intercity passenger trains and commuter rail trains.
Rapid Transit or Light Rail Vehicles Curve	Appropriate for both heavy and light-rail vehicles on at-grade and subway track.
Rubber-Tired Vehicles Curve	Appropriate for rubber-tire vehicles. These types of vehicles rarely create ground-borne vibration problems unless there is a discontinuity or bump in the road that causes the vibration. This curve represents the vibration level for a typical bus operating on smooth roadway.

Nearest Receptor - Lead Tracks - Freight Rail Cars

Receptor Distance (ft) 165 **Residence**
62.64 from FTA manual PDF page 150

50 mph 0
Total VdB 62.64

Receptor Distance (ft) 600 **School**
46.37 from FTA manual PDF page 150

40 mph -1.9
44.47

	Events	FTA Vdb threshold
Land Category 2 (residential)	<30	80
	30-70	75
	70+	72
Land Category 3 (Institutional)	<30	83
	30-70	78
	70+	73

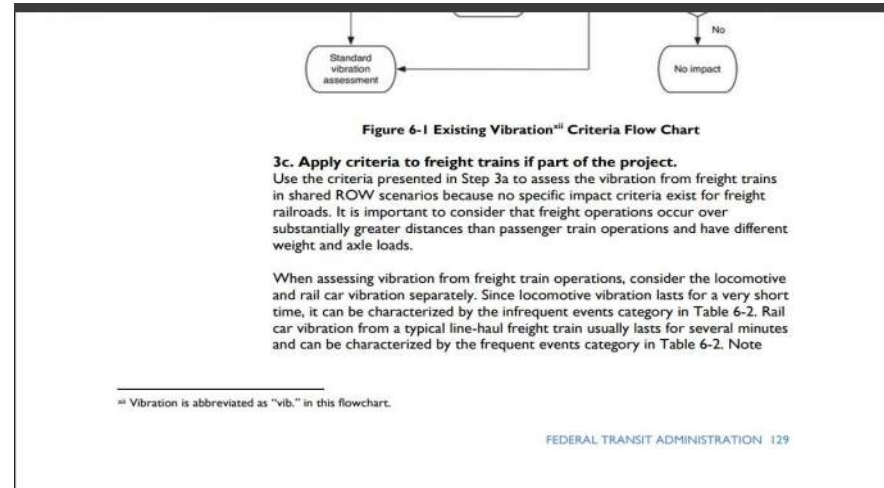


Table 6-9 Ground Surface Vibration Level Base Curve Descriptions

Curve	Description
Locomotive-Powered Passenger or Freight Curve	Appropriate for vehicles powered by diesel or electric locomotives including intercity passenger trains and commuter rail trains.
Rapid Transit or Light Rail Vehicles Curve	Appropriate for both heavy and light-rail vehicles on at-grade and subway track.
Rubber-Tired Vehicles Curve	Appropriate for rubber-tire vehicles. These types of vehicles rarely create ground-borne vibration problems unless there is a discontinuity or bump in the road that causes the vibration. This curve represents the vibration level for a typical bus operating on smooth roadway.

Compiled Results - Operational Vibration

Source	Residential Use (Category 2)			Institutional Use (Category 3)		
	Vibration Level (VdB) at Nearest Residential Use	Residential Threshold	Exceeds Threshold?	Vibration Level (VdB) at Nearest Institutional Use	Institutional Threshold (Category 3)	Exceeds Threshold?
Locomotives	73.44 VdB	75 VdB ¹	No	57.54 VdB	78 VdB ¹	No
Rail Cars	62.64 VdB	72 VdB ²	No	44.47 VdB	75 VdB ²	No

¹ FTA threshold for Occasional Events used per the FTA Transit Noise and Vibration Impact Assessment Manual (2018).
² FTA threshold for Frequent Events used per the FTA Transit Noise and Vibration Impact Assessment Manual (2018).