

<b>Site Number:</b> 1 (daytime)			
<b>Recorded By:</b> Rosey Worden			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 3:16 p.m.			
<b>Location:</b> At the intersection of County Road HH and County Road 13. Adjacent to the Pilot Travel Center.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways and trucks at the Pilot Center.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
68.4	59.6	83.0	103.0

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.01			Sensor Height (ft): 4 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
			°			

**Photo of Measurement Location**



**Summary**

**Filename** LxT\_Data.091  
**Serial Number** 5120  
**Model** SoundExpert™ LxT  
**Firmware Version** 2.302  
**Start** 2019/03/14 13:16:57  
**Stop** 2019/03/14 13:26:57  
**Duration** 0:10:00.0  
**Run Time** 0:10:00.0  
**Pause** 0:00:00.0

**Pre Calibration** 2019/03/14 13:10:58  
**Post Calibration** None  
**Calibration Deviation** ---

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Fast  
**Preamp** PRMLxT1L  
**Microphone Correction** Off  
**Integration Method** Linear  
**OBA Range** Normal  
**OBA Bandwidth** 1/1 and 1/3  
**OBA Freq. Weighting** Z Weighting  
**OBA Max Spectrum** Bin Max  
**Overload** 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
<b>Under Range Peak</b>	79.0	76.0	<b>81.0</b> dB
<b>Under Range Limit</b>	<b>28.0</b>	26.4	34.0 dB
<b>Noise Floor</b>	17.3	17.3	23.7 dB

**Results**

**LAeq** 68.4 dB  
**LAE** 96.2 dB  
**EA** 461.082 μPa<sup>2</sup>h  
**LZpeak (max)** 2019/03/14 13:26:38 103.0 dB  
**LAFmax** 2019/03/14 13:21:31 83.0 dB  
**LAFmin** 2019/03/14 13:26:40 56.9 dB  
**SEA** -99.9 dB

<b>LAF &gt; 85.0 dB (Exceedence Counts / Duration)</b>	0	0.0 s
<b>LAF &gt; 115.0 dB (Exceedence Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 135.0 dB (Exceedence Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 137.0 dB (Exceedence Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 140.0 dB (Exceedence Counts / Duration)</b>	0	0.0 s

**Community Noise**

<b>Ldn</b>	<b>LDay 07:00-22:00</b>	<b>LNight 22:00-07:00</b>	<b>Lden</b>	<b>LDay 07:00-19:00</b>	<b>LEvening 19:00-22:00</b>	<b>LNight 22:00-07:00</b>
68.4	68.4	-99.9	68.4	68.4	-99.9	-99.9

<b>LCeq</b>	77.5 dB
<b>LAeq</b>	68.4 dB
<b>LCeq - LAeq</b>	9.1 dB
<b>LAeq</b>	70.2 dB
<b>LAeq</b>	68.4 dB
<b>LAeq - LAeq</b>	1.8 dB
<b># Overloads</b>	0
<b>Overload Duration</b>	0.0 s
<b># OBA Overloads</b>	0
<b>OBA Overload Duration</b>	0.0 s

**Statistics**

<b>LAF5.00</b>	75.5 dB
<b>LAF10.00</b>	70.7 dB
<b>LAF33.30</b>	63.5 dB
<b>LAF50.00</b>	61.5 dB
<b>LAF66.60</b>	60.3 dB
<b>LAF90.00</b>	59.3 dB



<b>Site Number:</b> 2 (daytime)			
<b>Recorded By:</b> Rosey Worden			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 3:29 p.m.			
<b>Location:</b> On the Project site.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways and trucks at the Pilot Center.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
52.8	47.6	68.4	104.4

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> Clear		
	<b>Note:</b> dBA Offset = 0.01			<b>Sensor Height (ft):</b> 4 ft		
	<b>Wind Ave Speed (mph)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
			°			

**Photo of Measurement Location**



**Summary**

Filename LxT\_Data.092  
 Serial Number 5120  
 Model SoundExpert™ LxT  
 Firmware Version 2.302

User

Location

Job Description

Note

**Measurement Description**

Start 2019/03/14 13:29:42  
 Stop 2019/03/14 13:39:42  
 Duration 0:10:00.0  
 Run Time 0:10:00.0  
 Pause 0:00:00.0

Pre Calibration 2019/03/14 13:10:52  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight Z Weighting  
 Detector Fast  
 Preamp PRMLxT1L  
 Microphone Correction Off  
 Integration Method Linear  
 OBA Range Normal  
 OBA Bandwidth 1/1 and 1/3  
 OBA Freq. Weighting Z Weighting  
 OBA Max Spectrum Bin Max  
 Overload 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	79.0	76.0	<b>81.0</b> dB
Under Range Limit	<b>28.0</b>	26.4	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

**Results**

**LAeq** 52.8 dB  
 LAE 80.6 dB  
 EA 12.773  $\mu\text{Pa}^2\text{h}$   
 LZpeak (max) 2019/03/14 13:30:27 104.4 dB  
 LAFmax 2019/03/14 13:36:20 68.4 dB  
 LAFmin 2019/03/14 13:31:52 46.7 dB  
 SEA -99.9 dB

LAF > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s

LAF > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedence Counts / Duration)	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
	52.8	52.8	-99.9	52.8	52.8	-99.9	-99.9
LCeq	72.3 dB						
LAeq	52.8 dB						
LCeq - LAeq	19.5 dB						
LAeq	54.1 dB						
LAeq	52.8 dB						
LAeq - LAeq	1.3 dB						
# Overloads	0						
Overload Duration	0.0 s						
# OBA Overloads	0						
OBA Overload Duration	0.0 s						

Statistics	
LAF5.00	55.8 dB
LAF10.00	54.4 dB
LAF33.30	52.1 dB
LAF50.00	51.1 dB
LAF66.60	50.2 dB
LAF90.00	48.7 dB



<b>Site Number:</b> 3 (daytime)			
<b>Recorded By:</b> Rosey Worden			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 3:44 p.m.			
<b>Location:</b> On the north side of County Road 14 adjacent to the residence and 100 feet from the County Road HH intersection.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways, dogs barking and radio noise.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
56.6	43.3	78.6	105.4

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.01			Sensor Height (ft): 4 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
			°			

**Photo of Measurement Location**



**Summary**

Filename LxT\_Data.093  
 Serial Number 5120  
 Model SoundExpert™ LxT  
 Firmware Version 2.302

User

Location

Job Description

Note

**Measurement Description**

Start 2019/03/14 13:44:23  
 Stop 2019/03/14 13:54:23  
 Duration 0:10:00.0  
 Run Time 0:10:00.0  
 Pause 0:00:00.0

Pre Calibration 2019/03/14 13:10:52  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight Z Weighting  
 Detector Fast  
 Preamp PRMLxT1L  
 Microphone Correction Off  
 Integration Method Linear  
 OBA Range Normal  
 OBA Bandwidth 1/1 and 1/3  
 OBA Freq. Weighting Z Weighting  
 OBA Max Spectrum Bin Max  
 Overload 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	79.0	76.0	<b>81.0</b> dB
Under Range Limit	<b>28.0</b>	26.4	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

**Results**

**LAeq** 56.6 dB  
 LAE 84.3 dB  
 EA 30.242 µPa²h  
 LZpeak (max) 2019/03/14 13:52:38 105.4 dB  
 LAFmax 2019/03/14 13:52:39 78.6 dB  
 LAFmin 2019/03/14 13:53:12 43.3 dB  
 SEA -99.9 dB

LAF > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s



LAF > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedence Counts / Duration)	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**

	56.6	56.6	-99.9	56.6	56.6	-99.9	-99.9
LCeq	71.7 dB						
LAeq	56.6 dB						
LCeq - LAeq	15.2 dB						
LAeq	59.1 dB						
LAeq	56.6 dB						
LAeq - LAeq	2.6 dB						
# Overloads	0						
Overload Duration	0.0 s						
# OBA Overloads	0						
OBA Overload Duration	0.0 s						

**Statistics**

LAF5.00	58.4 dB
LAF10.00	53.0 dB
LAF33.30	48.2 dB
LAF50.00	47.4 dB
LAF66.60	46.8 dB
LAF90.00	45.3 dB

<b>Site Number:</b> 4 (daytime)			
<b>Recorded By:</b> Rosey Worden			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 3:59 p.m.			
<b>Location:</b> On the south side of County Road 14 adjacent to residence.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways, dogs barking and radio noise.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
59.5	43.1	80.2	101.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.01			Sensor Height (ft): 4 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
			°			

**Photo of Measurement Location**



**Summary**

**Filename** LxT\_Data.094  
**Serial Number** 5120  
**Model** SoundExpert™ LxT  
**Firmware Version** 2.302

**User****Location****Job Description****Note****Measurement Description**

**Start** 2019/03/14 13:59:34  
**Stop** 2019/03/14 14:09:34  
**Duration** 0:10:00.0  
**Run Time** 0:10:00.0  
**Pause** 0:00:00.0

**Pre Calibration** 2019/03/14 13:10:52  
**Post Calibration** None  
**Calibration Deviation** ---

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Fast  
**Preamp** PRMLxT1L  
**Microphone Correction** Off  
**Integration Method** Linear  
**OBA Range** Normal  
**OBA Bandwidth** 1/1 and 1/3  
**OBA Freq. Weighting** Z Weighting  
**OBA Max Spectrum** Bin Max  
**Overload** 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
<b>Under Range Peak</b>	79.0	76.0	<b>81.0</b> dB
<b>Under Range Limit</b>	<b>28.0</b>	26.4	34.0 dB
<b>Noise Floor</b>	17.3	17.3	23.7 dB

**Results**

**LAeq** 59.5 dB  
**LAE** 87.2 dB  
**EA** 58.775  $\mu\text{Pa}^2\text{h}$   
**LZpeak (max)** 2019/03/14 14:00:10 101.5 dB  
**LAFmax** 2019/03/14 14:07:09 80.2 dB  
**LAFmin** 2019/03/14 14:01:20 43.1 dB  
**SEA** -99.9 dB

**LAF > 85.0 dB (Exceedence Counts / Duration)** 0 0.0 s

LAF > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedence Counts / Duration)	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**

59.5 59.5 -99.9 59.5 59.5 -99.9 -99.9

LCeq	68.4 dB
LAeq	59.5 dB
LCeq - LAeq	8.9 dB
LAleq	64.3 dB
LAeq	59.5 dB
LAleq - LAeq	4.8 dB
# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

**Statistics**

LAF5.00	64.2 dB
LAF10.00	59.4 dB
LAF33.30	50.5 dB
LAF50.00	48.6 dB
LAF66.60	47.3 dB
LAF90.00	45.8 dB



<b>Site Number:</b> 5 (nighttime)			
<b>Recorded By:</b> Seth Meyers			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 8:03 p.m.			
<b>Location:</b> On the Project site.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways and trucks at the Pilot Center.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
50.9	45.6	59.2	85.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> Clear		
	<b>Note:</b> dBA Offset = 0.01			<b>Sensor Height (ft):</b> 4 ft		
	<b>Wind Ave Speed (mph)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
			°			

**Summary**

Filename LxT\_Data.095  
 Serial Number 5120  
 Model SoundExpert™ LxT  
 Firmware Version 2.302

User

Location

Job Description

Note

**Measurement Description**

Start 2019/03/18 20:03:03  
 Stop 2019/03/18 20:13:03  
 Duration 0:10:00.0  
 Run Time 0:10:00.0  
 Pause 0:00:00.0

Pre Calibration 2019/03/18 20:00:05

Post Calibration None

Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting

Peak Weight Z Weighting

Detector Fast

Preamp PRMLxT1L

Microphone Correction Off

Integration Method Linear

OBA Range Normal

OBA Bandwidth 1/1 and 1/3

OBA Freq. Weighting Z Weighting

OBA Max Spectrum Bin Max

Overload 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	79.0	76.0	<b>81.0</b> dB
Under Range Limit	<b>28.0</b>	26.5	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

**Results****LAeq** 50.9 dB

LAE 78.7 dB

EA 8.262  $\mu\text{Pa}^2\text{h}$ 

LZpeak (max) 2019/03/18 20:03:03 85.5 dB

LAFmax 2019/03/18 20:12:43 59.2 dB

LAFmin 2019/03/18 20:05:27 45.6 dB

SEA -99.9 dB

LAF &gt; 85.0 dB (Exceedence Counts / Duration) 0 0.0 s

LAF > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedence Counts / Duration)	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
	50.9	50.9	-99.9	-99.9	-99.9	50.9	-99.9
LCeq	66.1 dB						
LAeq	50.9 dB						
LCeq - LAeq	15.2 dB						
LAeq	51.8 dB						
LAeq	50.9 dB						
LAeq - LAeq	0.9 dB						
# Overloads	0						
Overload Duration	0.0 s						
# OBA Overloads	0						
OBA Overload Duration	0.0 s						

Statistics	
LAF5.00	54.7 dB
LAF10.00	53.6 dB
LAF33.30	51.2 dB
LAF50.00	49.6 dB
LAF66.60	48.7 dB
LAF90.00	47.4 dB

<b>Site Number:</b> 6 (nighttime)			
<b>Recorded By:</b> Seth Meyers			
<b>Job Number:</b> 2019-045			
<b>Date:</b> 3/14/2019			
<b>Time:</b> 8:15 p.m.			
<b>Location:</b> On County Road 14 adjacent to the industrial use.			
<b>Source of Peak Noise:</b> Vehicle traffic on surrounding roadways and trucks at the Pilot Center.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
53.4	45.4	71.7	93.7

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	LxT SE	0005120	6/04/2018	
	Microphone	Larson Davis	377B02	174464	5/31/2018	
	Preamp	Larson Davis	PRMLxT1L	042852	6/04/2018	
	Calibrator	Larson Davis	CAL200	14105	5/31/2018	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> Clear		
	<b>Note:</b> dBA Offset = 0.01			<b>Sensor Height (ft):</b> 4 ft		
	<b>Wind Ave Speed (mph)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
			°			



**Summary**

Filename LxT\_Data.096  
Serial Number 5120  
Model SoundExpert™ LxT  
Firmware Version 2.302

User

Location

Job Description

Note

**Measurement Description**

Start 2019/03/18 20:15:57  
Stop 2019/03/18 20:25:57  
Duration 0:10:00.0  
Run Time 0:10:00.0  
Pause 0:00:00.0

Pre Calibration 2019/03/18 20:00:01  
Post Calibration None  
Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
Peak Weight Z Weighting  
Detector Fast  
Preamp PRMLxT1L  
Microphone Correction Off  
Integration Method Linear  
OBA Range Normal  
OBA Bandwidth 1/1 and 1/3  
OBA Freq. Weighting Z Weighting  
OBA Max Spectrum Bin Max  
Overload 122.7 dB

	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	79.0	76.0	<b>81.0</b> dB
Under Range Limit	<b>28.0</b>	26.5	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

**Results**

**LAeq** 53.4 dB  
LAE 81.2 dB  
EA 14.660 µPa²h  
LZpeak (max) 2019/03/18 20:16:33 93.7 dB  
LAFmax 2019/03/18 20:16:33 71.7 dB  
LAFmin 2019/03/18 20:24:47 45.4 dB  
SEA -99.9 dB

LAF > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s

LAF > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedence Counts / Duration)	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**

53.4 53.4 -99.9 -99.9 -99.9 53.4 -99.9

LCeq	65.2 dB
LAeq	53.4 dB
LCeq - LAeq	11.7 dB
LAleq	54.7 dB
LAeq	53.4 dB
LAleq - LAeq	1.3 dB
# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

**Statistics**

LAF5.00	56.5 dB
LAF10.00	54.4 dB
LAF33.30	51.6 dB
LAF50.00	50.6 dB
LAF66.60	49.7 dB
LAF90.00	47.9 dB

**Traffic Noise  
Existing Conditions**

**TRAFFIC NOISE LEVELS AND NOISE CONTOURS**

**Project Number:** 2019-045  
**Project Name:** Orland Truck Wash

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: **KD Anderson and Associates**  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:   x  

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%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		CNEL at 100 Feet	Distance from Centerline of Roadway				Calc Dist	Traffic Volumes								
						Medium Trucks	Heavy Trucks		70 CNEL	65 CNEL	60 CNEL	55 CNEL		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn
<b>Newville Road</b>																						
West of Road HH	2	0	2,709	35	0.5	1.8%	0.7%	<b>53.0</b>	-	-	34	73	100	2,105	344	260	43	17	2	1	4	2
Between Road HH & South Bound I-5 Ramp	2	0	4,149	35	0.5	1.8%	0.7%	<b>54.8</b>	-	-	45	98	100	3,224	527	398	65	26	4	1	6	2
<b>County Road HH (Commerce Lane)</b>																						
North of Newville Road	2	0	774	35	0.5	1.8%	0.7%	<b>47.5</b>	-	-	-	-	100	601	98	74	12	5	1	0	1	0
Between Newville Road & County Road 13	2	0	976	35	0.5	1.8%	0.7%	<b>48.6</b>	-	-	-	37	100	758	124	94	15	6	1	0	1	1
Between County Road 13 & County Road 14	2	0	333	35	0.5	1.8%	0.7%	<b>43.9</b>	-	-	-	-	100	259	42	32	5	2	0	0	0	0
<b>County Road 13</b>																						
East of County Road HH	2	0	315	35	0.5	1.8%	0.7%	<b>43.6</b>	-	-	-	-	100	245	40	30	5	2	0	0	0	0
<b>Southbound I-5 Ramp</b>																						
South of Newville Road, Merging onto SB I-5 Ramp	2	0	729	50	0.5	1.8%	0.7%	<b>51.0</b>	-	-	-	54	100	566	93	70	11	5	1	0	1	0
<b>Northbound I-5 Ramp</b>																						
North of Newville Road, Merging onto the NB I-5 Ramp	2	0	792	50	0.5	1.8%	0.7%	<b>51.3</b>	-	-	-	57	100	615	101	76	12	5	1	0	1	0

**Traffic Noise  
Existing Plus Project Conditions**

**TRAFFIC NOISE LEVELS AND NOISE CONTOURS**

**Project Number:** 2019-045  
**Project Name:** Orland Truck Wash

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: **KD Anderson and Associates**  
 Community Noise Descriptor: L<sub>dn</sub>: \_\_\_\_\_ CNEL:   x  

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%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		CNEL at 100 Feet	Distance from Centerline of Roadway				Calc Dist	Traffic Volumes								
						Medium Trucks	Heavy Trucks		70 CNEL	65 CNEL	60 CNEL	55 CNEL		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn
<b>Newville Road</b>																						
West of Road HH	2	0	2,754	35	0.5	1.8%	0.7%	53.1	-	-	34	74	100	2,140	350	264	43	17	3	1	4	2
Between Road HH & South Bound I-5 Ramp	2	0	4,464	35	0.5	1.8%	1.0%	55.5	-	-	50	108	100	3,469	567	429	70	40	4	1	6	4
<b>County Road HH (Commerce Lane)</b>																						
North of Newville Road	2	0	783	35	0.5	1.8%	0.7%	47.6	-	-	-	32	100	608	99	75	12	5	1	0	1	0
Between Newville Road & County Road 13	2	0	1,314	35	0.5	1.8%	2.0%	51.2	-	-	-	56	100	1,021	167	126	21	23	1	1	2	2
Between County Road 13 & County Road 14	2	0	828	35	0.5	1.8%	3.5%	50.4	-	-	-	49	100	643	105	79	13	26	1	1	1	2
<b>County Road 13</b>																						
East of County Road HH	2	0	396	35	0.5	1.8%	1.3%	45.3	-	-	-	-	100	308	50	38	6	5	0	0	1	0
<b>Southbound I-5 Ramp</b>																						
South of Newville Road, Merging onto SB I-5 Ramp	2	0	729	50	0.5	1.8%	0.7%	51.0	-	-	-	54	100	566	93	70	11	5	1	0	1	0
<b>Northbound I-5 Ramp</b>																						
North of Newville Road, Merging onto the NB I-5 Ramp	2	0	792	50	0.5	1.8%	0.8%	51.4	-	-	-	58	100	615	101	76	12	6	1	0	1	1



**Traffic Noise  
Cumulative No Project Conditions**

**TRAFFIC NOISE LEVELS AND NOISE CONTOURS**

**Project Number:** 2019-045  
**Project Name:** Orland Truck Wash

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: **KD Anderson and Associates**  
 Community Noise Descriptor: L<sub>dn</sub>: \_\_\_\_\_ CNEL:   x  

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%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		CNEL at 100 Feet	Distance from Centerline of Roadway				Calc Dist	Traffic Volumes								
						Medium Trucks	Heavy Trucks		70 CNEL	65 CNEL	60 CNEL	55 CNEL		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn
<b>Newville Road</b>																						
West of Road HH	2	0	2,772	35	0.5	1.8%	0.7%	<b>53.1</b>	-	-	35	75	100	2,154	352	266	44	17	3	1	4	2
Between Road HH & South Bound I-5 Ramp	2	0	5,328	35	0.5	1.8%	0.7%	<b>55.9</b>	-	-	54	115	100	4,140	677	511	84	33	5	1	7	3
<b>County Road HH (Commerce Lane)</b>																						
North of Newville Road	2	0	1,278	35	0.5	1.8%	0.7%	<b>49.7</b>	-	-	-	45	100	993	162	123	20	8	1	0	2	1
Between Newville Road & County Road 13	2	0	1,611	35	0.5	1.8%	0.7%	<b>50.7</b>	-	-	-	52	100	1,252	205	155	25	10	1	0	2	1
Between County Road 13 & County Road 14	2	0	810	35	0.5	1.8%	0.7%	<b>47.7</b>	-	-	-	33	100	629	103	78	13	5	1	0	1	0
<b>County Road 13</b>																						
East of County Road HH	2	0	378	35	0.5	1.8%	0.7%	<b>44.4</b>	-	-	-	-	100	294	48	36	6	2	0	0	1	0
<b>Southbound I-5 Ramp</b>																						
South of Newville Road, Merging onto SB I-5 Ramp	2	0	783	50	0.5	1.8%	0.7%	<b>51.3</b>	-	-	-	57	100	608	99	75	12	5	1	0	1	0
<b>Northbound I-5 Ramp</b>																						
North of Newville Road, Merging onto the NB I-5 Ramp	2	0	3,051	50	0.5	1.8%	0.7%	<b>57.2</b>	-	-	65	140	100	2,371	387	293	48	19	3	1	4	2

**Traffic Noise  
Cumulative Plus Project Conditions**

**TRAFFIC NOISE LEVELS AND NOISE CONTOURS**

**Project Number:** 2019-045  
**Project Name:** Orland Truck Wash

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: **KD Anderson and Associates**  
 Community Noise Descriptor: L<sub>dn</sub>: \_\_\_\_\_ CNEL:   x  

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%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		CNEL at 100 Feet	Distance from Centerline of Roadway				Calc Dist	Traffic Volumes								
						Medium Trucks	Heavy Trucks		70 CNEL	65 CNEL	60 CNEL	55 CNEL		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn
<b>Newville Road</b>																						
West of Road HH	2	0	2,826	35	0.5	1.8%	0.8%	<b>53.3</b>	-	-	36	77	100	2,196	359	271	44	20	3	1	4	2
Between Road HH & South Bound I-5 Ramp	2	0	5,688	35	0.5	1.8%	1.0%	<b>56.6</b>	-	-	59	127	100	4,420	722	546	90	51	5	2	8	5
<b>County Road HH (Commerce Lane)</b>																						
North of Newville Road	2	0	1,278	35	0.5	1.8%	0.7%	<b>49.7</b>	-	-	-	45	100	993	162	123	20	8	1	0	2	1
Between Newville Road & County Road 13	2	0	2,142	35	0.5	1.8%	1.9%	<b>53.2</b>	-	-	35	76	100	1,664	272	206	34	36	2	1	3	3
Between County Road 13 & County Road 14	2	0	1,305	35	0.5	1.8%	2.5%	<b>51.6</b>	-	-	-	59	100	1,014	166	125	21	29	1	1	2	3
<b>County Road 13</b>																						
East of County Road HH	2	0	396	35	0.5	1.8%	1.3%	<b>45.3</b>	-	-	-	-	100	308	50	38	6	5	0	0	1	0
<b>Southbound I-5 Ramp</b>																						
South of Newville Road, Merging onto SB I-5 Ramp	2	0	1,053	50	0.5	1.8%	1.2%	<b>52.9</b>	-	-	34	73	100	818	134	101	17	11	1	0	1	1
<b>Northbound I-5 Ramp</b>																						
North of Newville Road, Merging onto the NB I-5 Ramp	2	0	3,051	50	0.5	1.8%	0.7%	<b>57.2</b>	-	-	65	140	100	2,371	387	293	48	19	3	1	4	2

**SoundPLAN  
Output Source Information**

Number	Receiver Name	Floor	Level at Receiver
1	At the intersection of County Road HH and County Road 13. Adjacent to the Pilot Travel Center.	Ground Floor	60.5 dBA
2	On the Project site.	Ground Floor	80.0 dBA
3	On the north side of County Road 14 adjacent to residence and 100 feet from the County Road HH intersection.	Ground Floor	62.9 dBA
4	On the south side of County Road 14 adjacent to residence.	Ground Floor	58.0 dBA
5	Residence located southwest of the Project sit.	Ground Floor	59.9 dBA
6	Residence located southwest of the Project sit.	Ground Floor	68.0 dBA
7	Residence located north of the Project site across County Road 13	Ground Floor	56.8 dBA

Number	Noise Source Information	Citation	Level at Source
1	Back Up Alarm on Heavy Duty Trucks	City of San Jose 2014 Midpoint at 237 Loading Dock Noise Study	79.0 dBA
2	Normal Parking Lot Noise & Presence of Pedestrians	SoundPLAN 4.1 Refrence Library	60.0 dBA

