



January 18, 2021

Mike Keenan  
Project Manager  
Capital Projects  
Spokane Public Schools  
2815 E Garland Ave.  
Spokane, WA 99207

*Re: Environmental Noise Report  
Site: Sacajawea Middle School, Spokane School Dist.*

Dear Mike,

This report presents the results of the noise survey conducted for the proposed Sacajawea Middle School located at 401 E 33rd Ave in Spokane, Washington. The purpose of this report is to document the extent and impact of environmental noise due to traffic and other sources in the immediate vicinity of the school. This report contains data on the existing noise environments, impact criteria, and evaluation of the data as they relate to the criteria and recommendations for improvement where appropriate.

The proposed site will be located on the existing Sacajawea site. The site is bordered to the east by S Grand Boulevard, to the south by E 33<sup>rd</sup> Ave, and to the west by S Lamonte St. Weather conditions during the period of measurement was partially cloudy with light winds.

Hourly noise measurements were conducted with Svantek 971 and 307 Environmental Noise Monitors on January 14 – 15, 2021. Equipment conforms to American National Standards Institute (ANSI) requirements for Type 1 instruments and is under current calibration.

The noise study was completed in accordance with WAC 246-366-030 Site Approval for Educational Facilities and WAC 246-366-110 Sound Control as required by the Health and Safety Guide for K-12 Schools in Washington.

#### PRIMARY AND SECONDARY SCHOOL REGULATIONS

WAC-246-366-030: Noise from any source at a proposed site for a new school, an addition to an existing school, or a portable classroom shall not exceed an hourly average of 55 dBA and shall not exceed an hourly maximum of 75 dBA during the time of day the school is in session; except sites exceeding these levels are acceptable if a plan for sound reduction is included in the new construction proposal and the plan for sound reduction is approved by the health offices.

WAC-246-366-110: Interior background noise levels at any student location within the classroom shall not exceed 45 dBA for 30 seconds.

### Noise Measurements

Continuous noise measurements were conducted at the project site to quantify the existing noise environment. Measurements ran between 9 AM and 5 PM on January 14 – 15, 2021. The noise monitors were placed at locations representative of the proposed building location. Monitors were placed at locations 1 and 2 indicated in the figure, and in addition short-term measurements were conducted at the monitor and other locations. Each of the noise monitors were placed at approximately 5 feet above grade. Measurement locations are presented in the following figure:

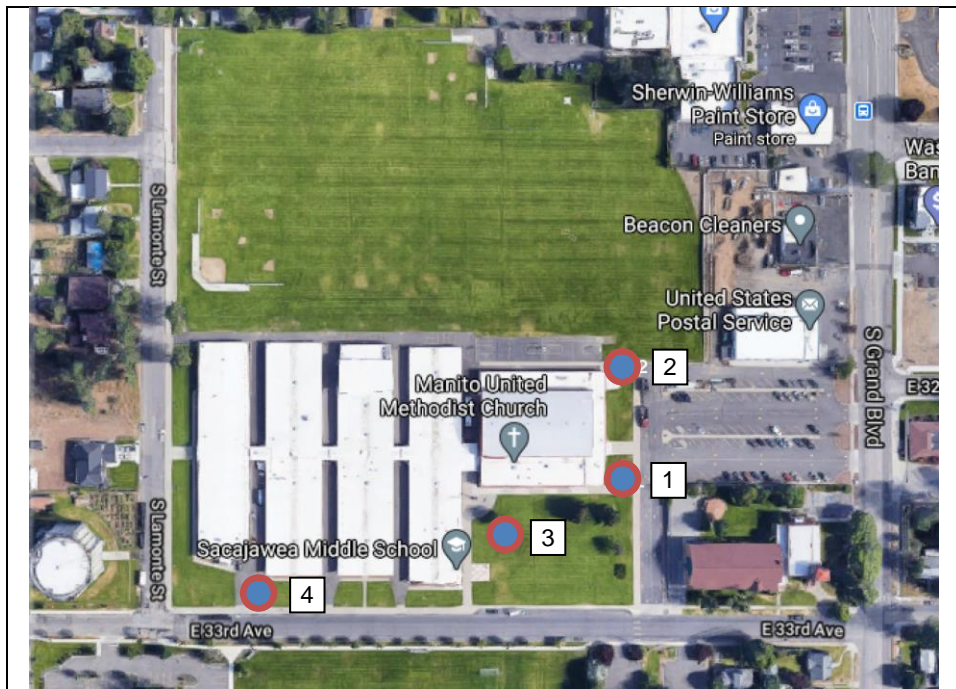


Figure 1: Site Plan and Measurement Locations

### Measurement Results

Primary noise sources impacting the site include traffic noise from S. Grand Boulevard in addition to occasional traffic on E 33<sup>rd</sup> Ave, S Lamonte St, and aircraft events. The school was closed during the measurements.

The following table presents the hourly  $L_{eq}$  and  $L_{max}$  levels measured at the monitoring locations during school hours (between 8 AM and 4 PM):

Location	$L_{eq}$	$L_{max}$	Meets W.A.C.
1	51 – 54	64 – 75	YES
2	51 – 54	65 – 71	YES

According to the measurement results, the hourly  $L_{eq}$  and  $L_{max}$  noise levels are within the WAC noise limits at both monitor locations.

The following table presents a summary of the short-term measurements:

Location	L <sub>eq</sub>	L <sub>max</sub>	Meets W.A.C.
1	40	44	YES
2	52	56	YES
3	37	40	YES
4	40	42	YES

According to the measurement results, the measured L<sub>eq</sub> and L<sub>max</sub> noise levels meet the W.A.C. requirements.

No additional noise reduction measures are recommended to meet W.A.C. requirements for the proposed site.

Please contact us if you have questions or need further information.

Sincerely,  
SSA Acoustics, LLP



**Alan Burt, P.E.**

PARTNER

ACOUSTICAL CONSULTANT

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