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ACOUSTICS, NOISE & VIBRATION

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WI #16-085

Report No. NM1-9
Glenview Elementary – Noise Monitoring

To	Wil Newby, OUSD
Prepared By	Tom Ostrander
Reviewed By	Deborah Jue
Date of Report	November 21, 2016
Location of Monitoring	NM1 – 1532 Hampel backyard
Monitoring Period Covered By Report	Monday, November 14 to Sunday, November 20, 2016
Equipment	Larson Davis 812, Serial No. 785

Construction Activities: This week continued the removal of footings and onsite processing, including breaking up concrete footings on site. These footings were broken up in place using pneumatic hammers and were removed using excavators. The footing breakdown was most active on Thursday, November 17, and the removal of debris was most active on Friday, November 18.

Comments:

Hourly 65 dBA Leq noise limit. Construction noise exceeded the 65 dBA limit during the following:

- Tuesday, November 15, between 10 and 11 AM
- Wednesday, November 16, between 10 and 11 AM, and between 1 and 2 PM
- Thursday, November 17, between 10 AM and 2 PM
- Friday, November 18, between 7 and 8 AM, and between 10 AM and 3 PM
- Sunday, November 20, between 11 AM and 12 PM (see below)

On Sunday, November 20, there was no construction activity during the day, so exceedances on this day were not due to construction noise.

Current noise mitigation measures include a 10 ft high sound blanket barrier surrounding the upper yard, noise reducing ear muffs distributed to neighbors, and a daily construction schedule which shifts major demolition activities to start no earlier than 8 AM (whereas construction activities are normally allowed to start at 7 AM). These measures are the best available, reasonable and feasible practices for reducing noise given the project constraints.

Extreme noise. There were no periods where the Lmax level exceeded 90 dBA.

The project complied with the City noise ordinance for over 75% of the work week; the project is providing the best available mitigation measures for those times when the noise exceeds the limits.

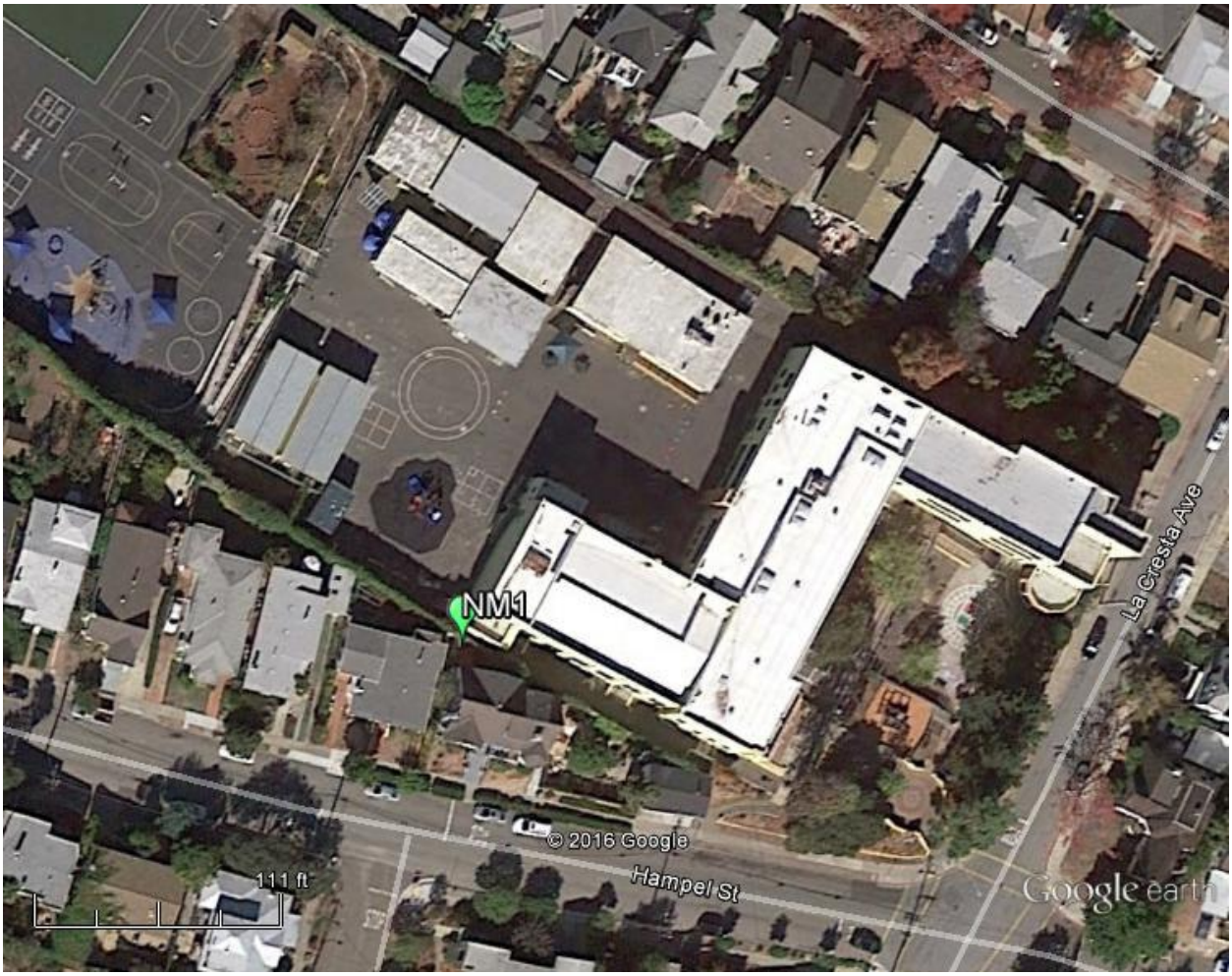

Figure 1 Area site plan and Noise Monitoring Location

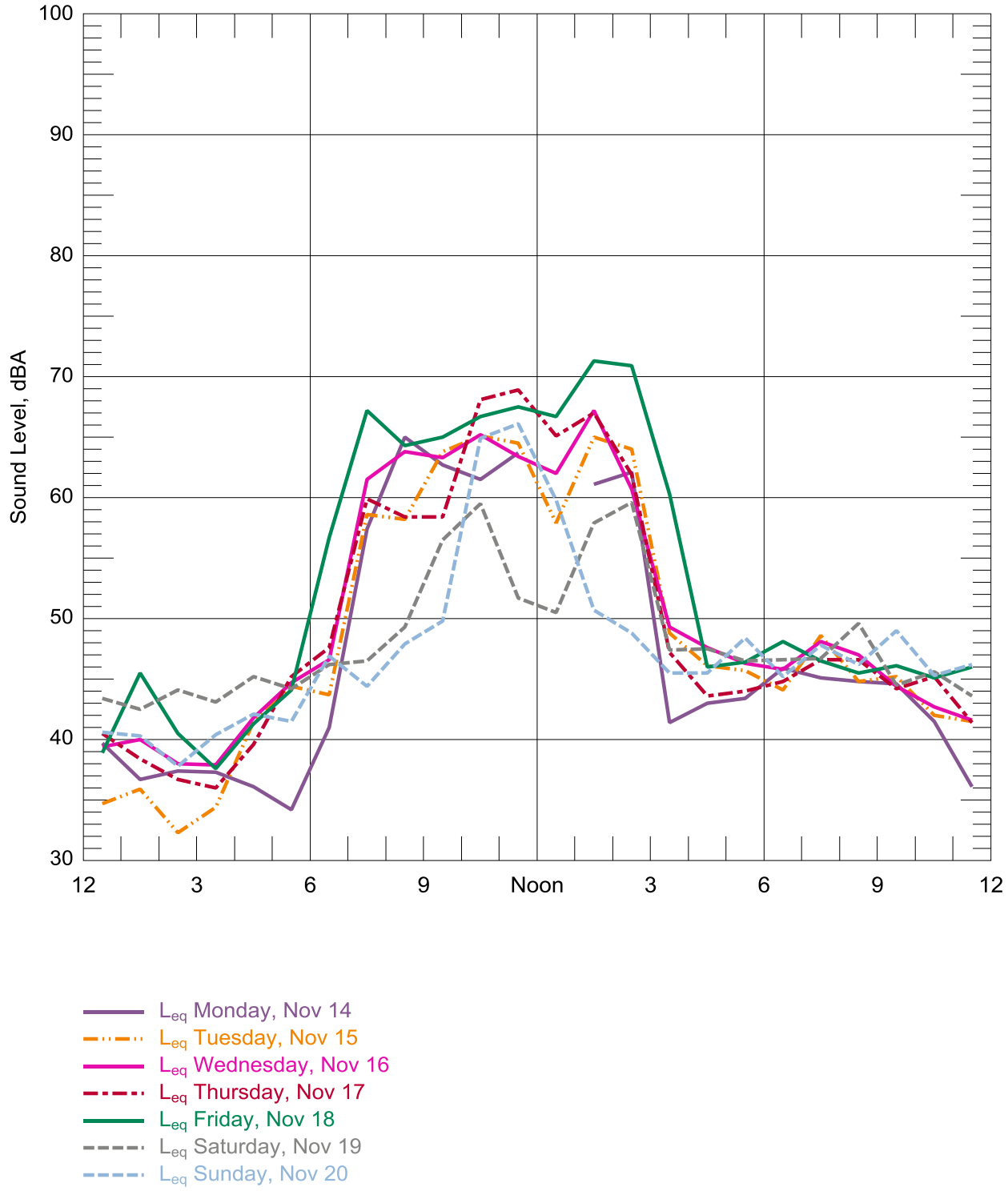

Figure 2: Hourly Energy Equivalent Noise Levels - NM1 (Hampel)

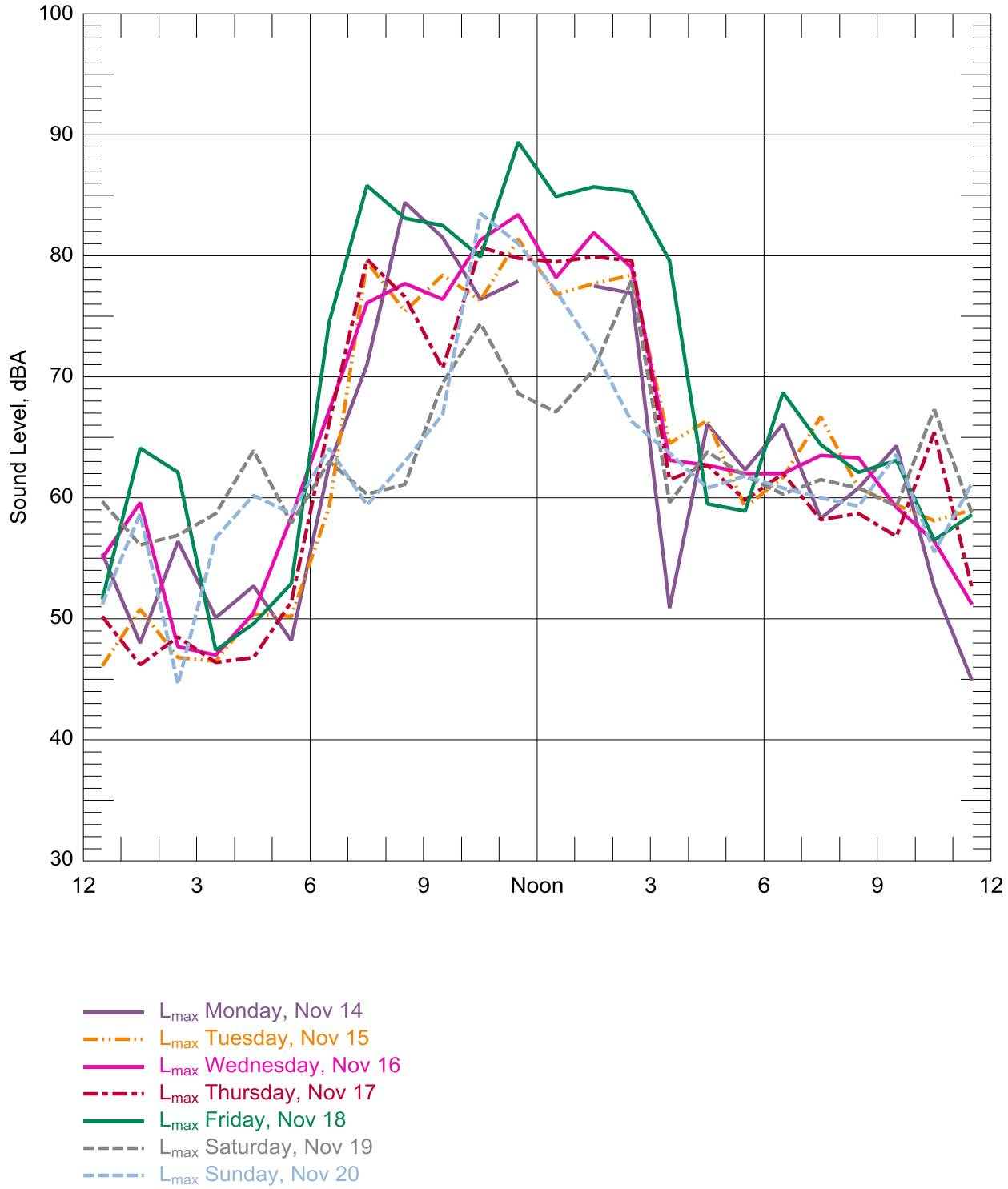

Figure 3: Hourly Lmax Noise Levels - NM1 (Hampel)