

Prescott Park Arts Festival
Sound Level Monitoring Report
July 17, 2017 – July 30, 2017

Prepared by
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for
The City of Portsmouth, NH

Introduction

Reuter Associates, LLC is under contract with the City of Portsmouth, NH to provide various services related sound management in Prescott Park, including the monitoring of sound levels during events at the city-owned facility. The Prescott Park Arts Festival, a non-profit arts and education organization, presents musical theater, concerts, and other events throughout the summer season.

Background information related to the Sound Management Plan for Prescott Park and the monitoring protocol, including the initial monitoring report (covering the period of June 18th to July 16th, 2017) can be found on the Prescott Park Policy Advisory Committee website at (<http://cityofportsmouth.com/prescottpark/pppac.html>).

Event Data

The attached Appendix A provides plots of sound levels versus time from 6 pm to midnight for each night between July 17, 2017 and July 30, 2017. Nights without events have been included for clarity and comparison.

Each plot presents data measured between 6 pm and 12 am. The lines plotted are both A-weighted sound pressure level in 1-minute intervals, as plotting six hours of data in 1-second intervals makes the plot difficult to interpret. The 1-second data are available for further analysis.

1-minute Leq – The Leq over the minute ending at the data point

Maximum 1-second Leq – The maximum 1-second Leq measured during this minute

Also included are lines indicating the yellow and red light thresholds.

A detailed discussion of decibels, Leq, and other terminology is available in the initial report (covering the period between June 18th and July 16th, 2017).

Event Notes

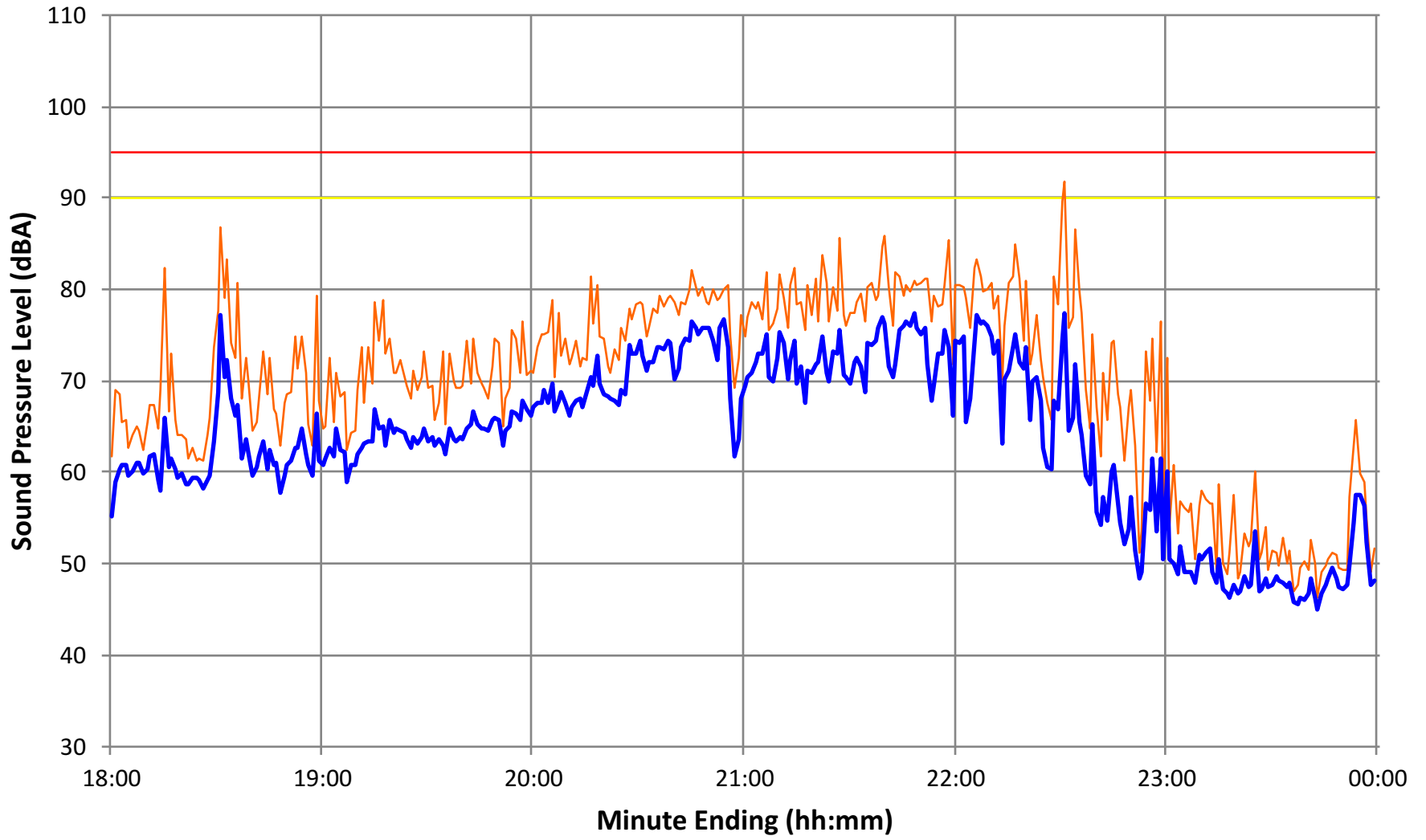
Sound levels were consistently below 90 dBA for almost all events during this period.

The notable exception was Michael Franti & Spearhead on Jul 26. Levels were consistently at or above 95 dBA, with peak levels reaching over 105 dBA. It is likely that crowd noise contributed to some of these peak levels, but the average levels (the 1-minute Leq in blue) indicate a lack of compliance with the visual feedback system.

Appendix A
Sound Monitor Data

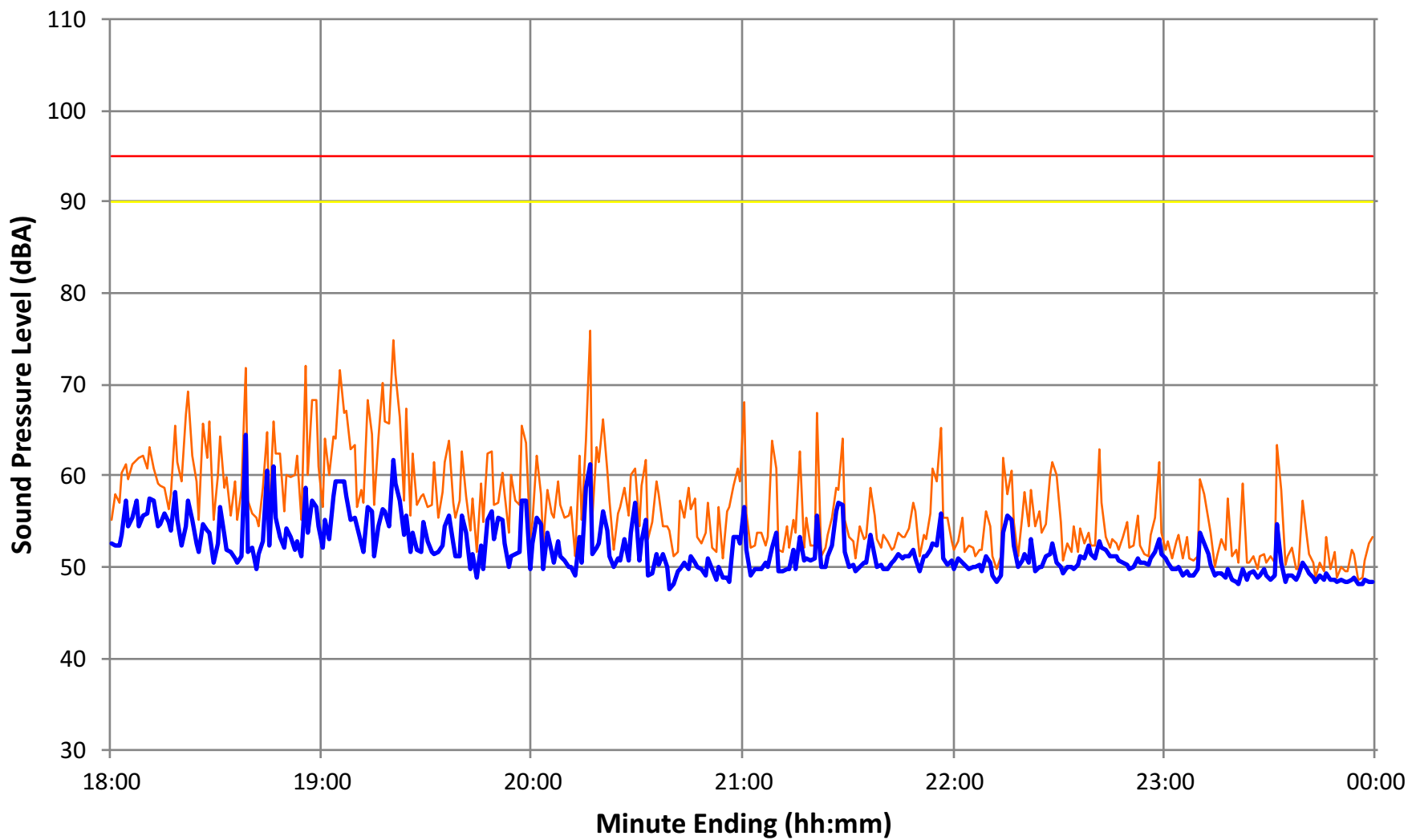
Movie (Lego Batman)

07-17-2017



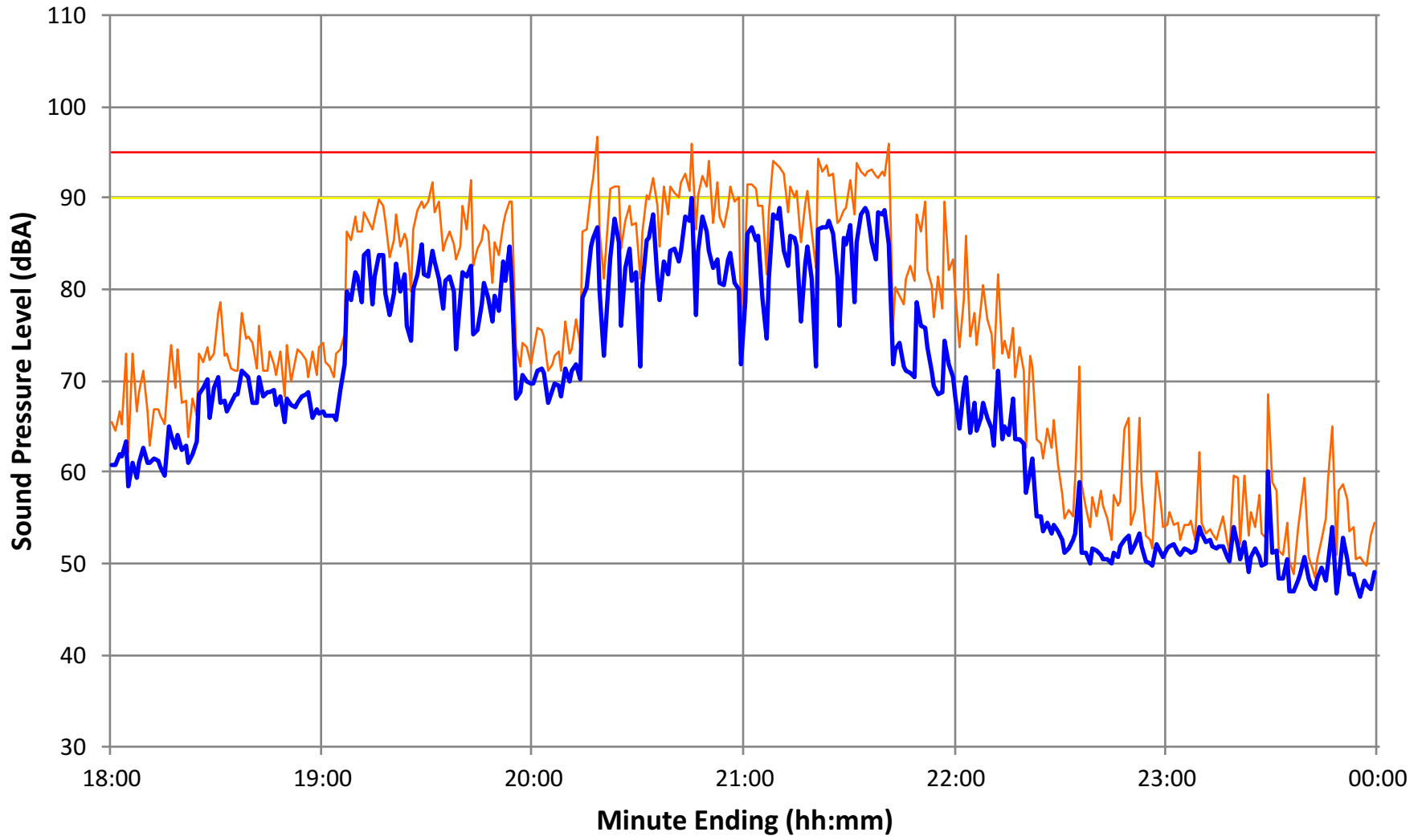
Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

No Event 07-18-2017



— Yellow Light — Red Light — Maximum 1-sec Leq — 1-minute Leq

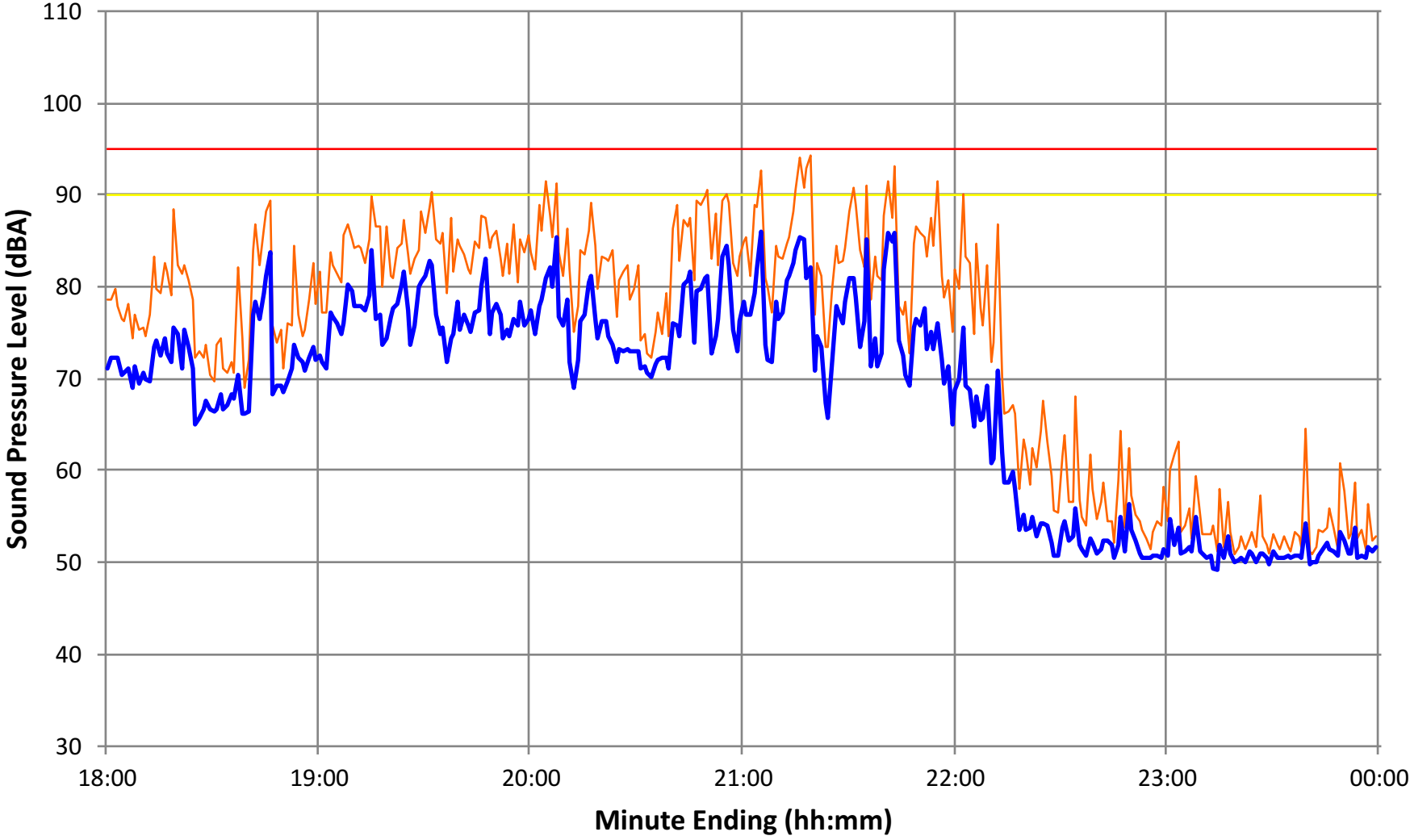
Darlingside 07-19-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

Mary Poppins

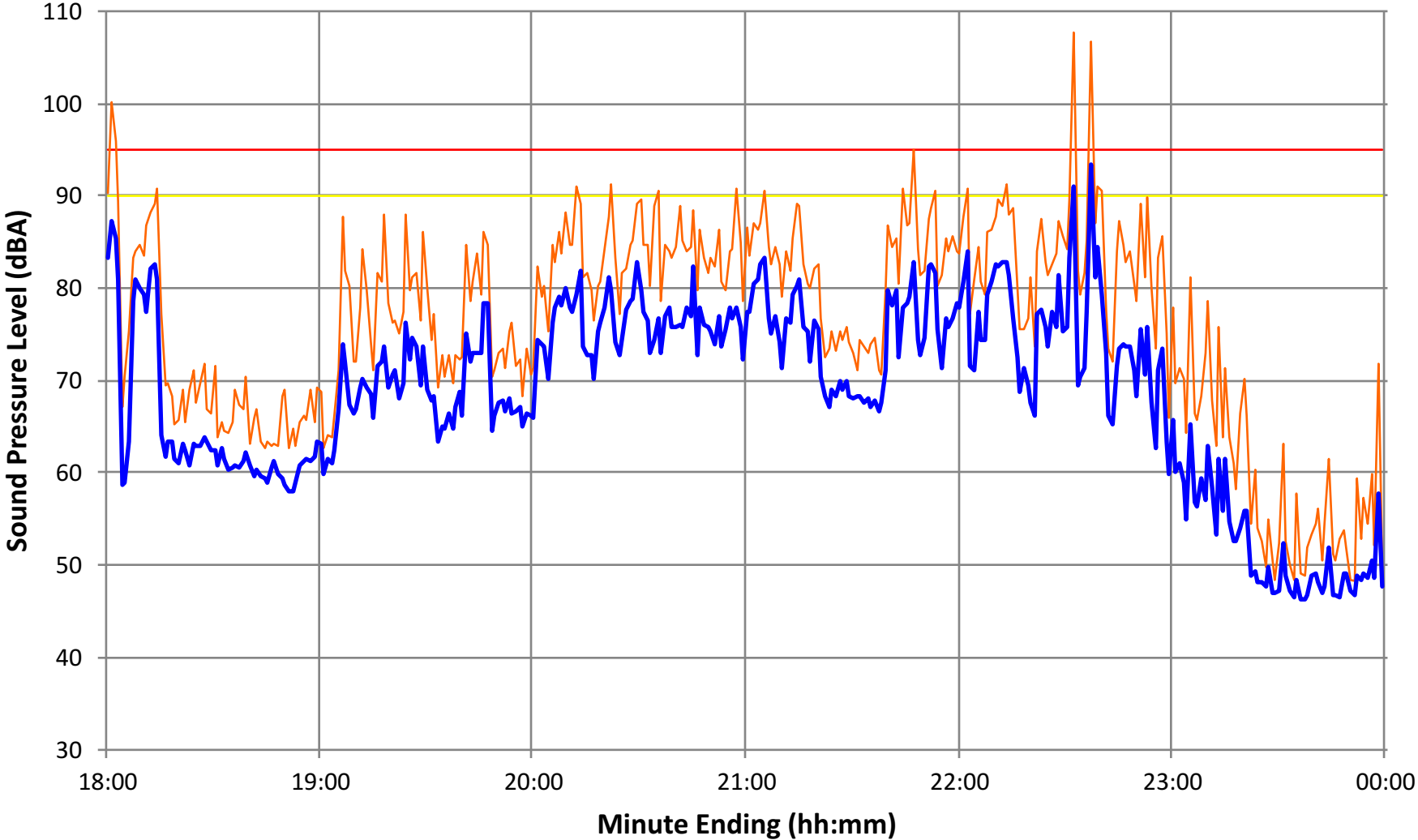
07-20-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

Mary Poppins

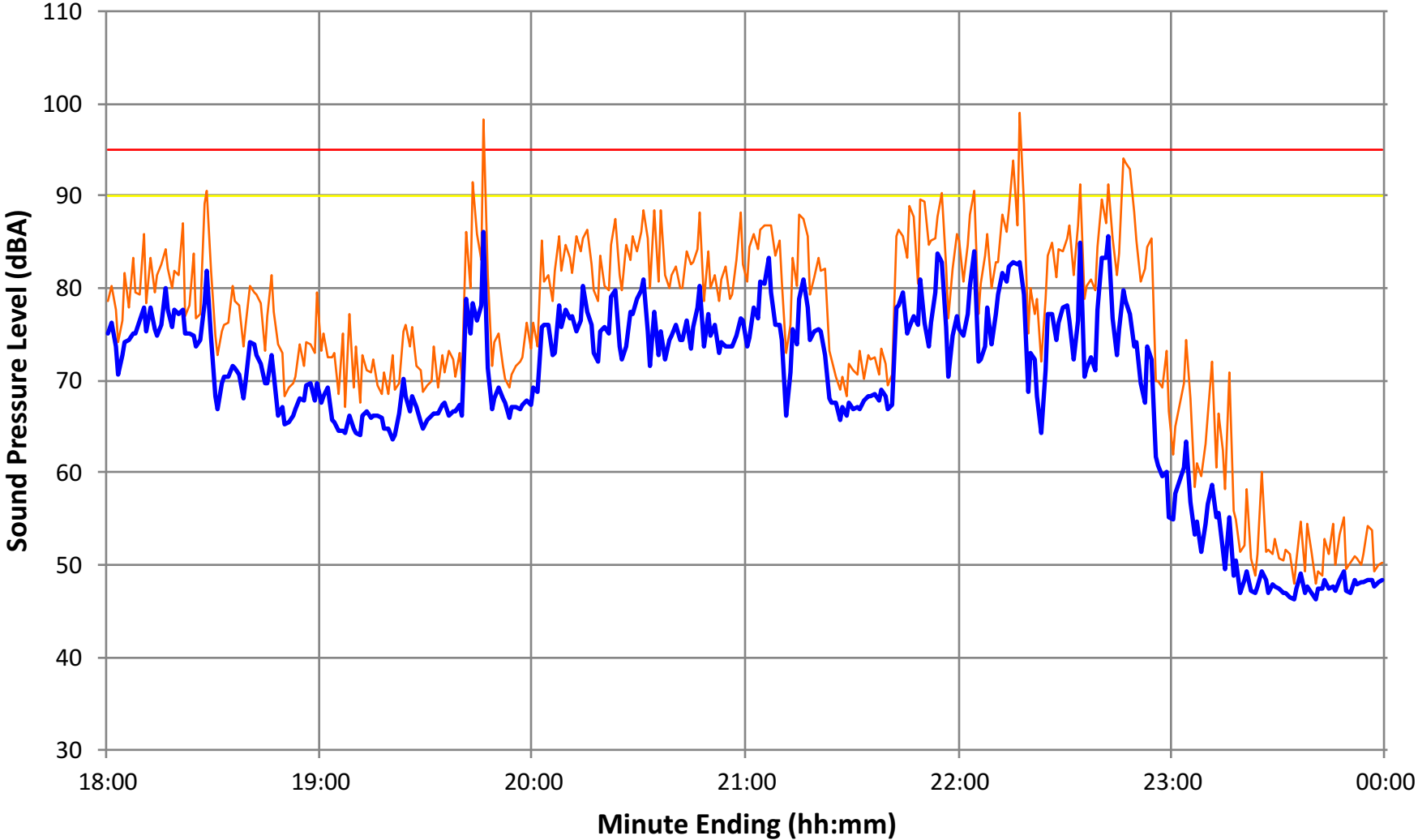
07-21-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

Mary Poppins

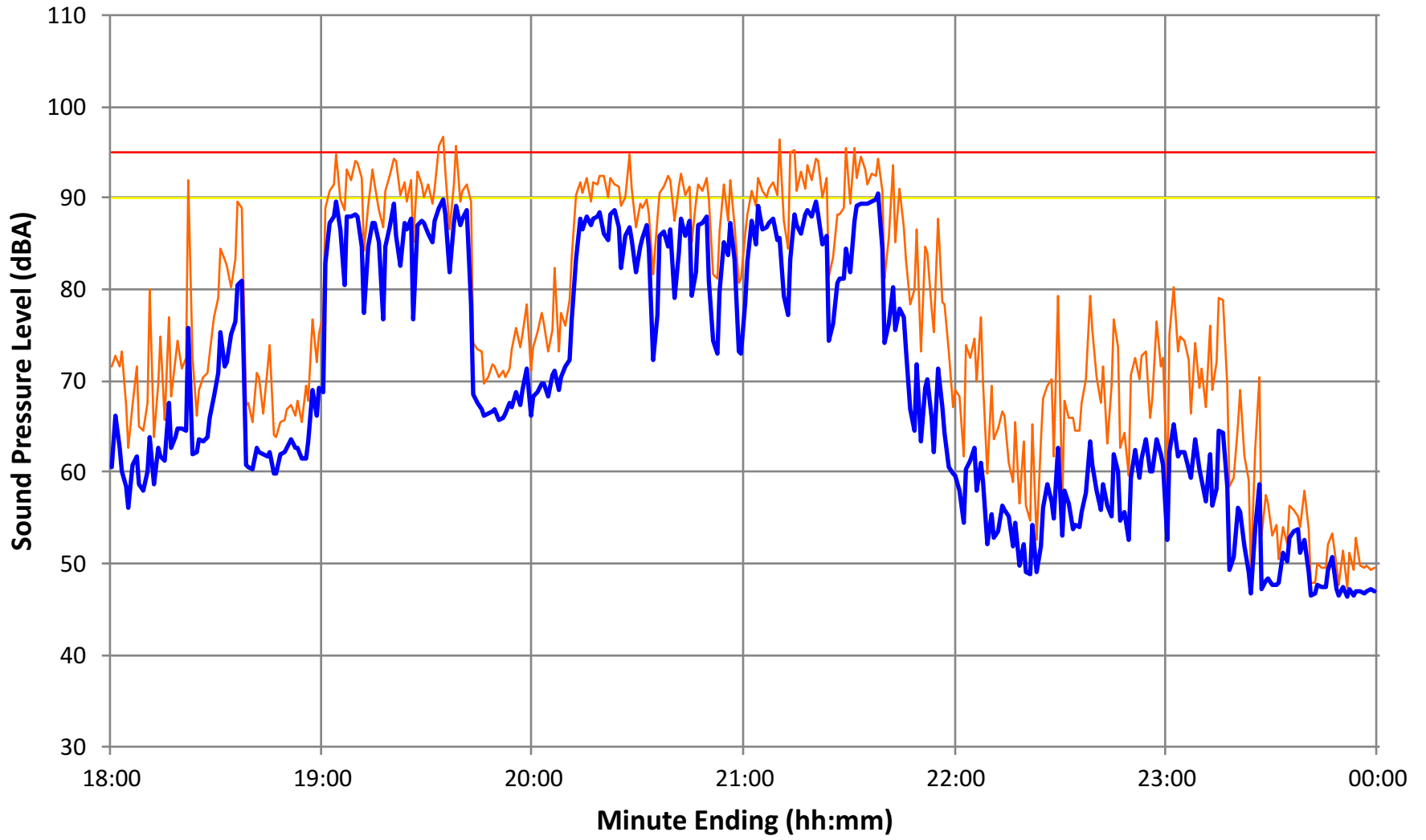
07-22-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

Connor Oberst

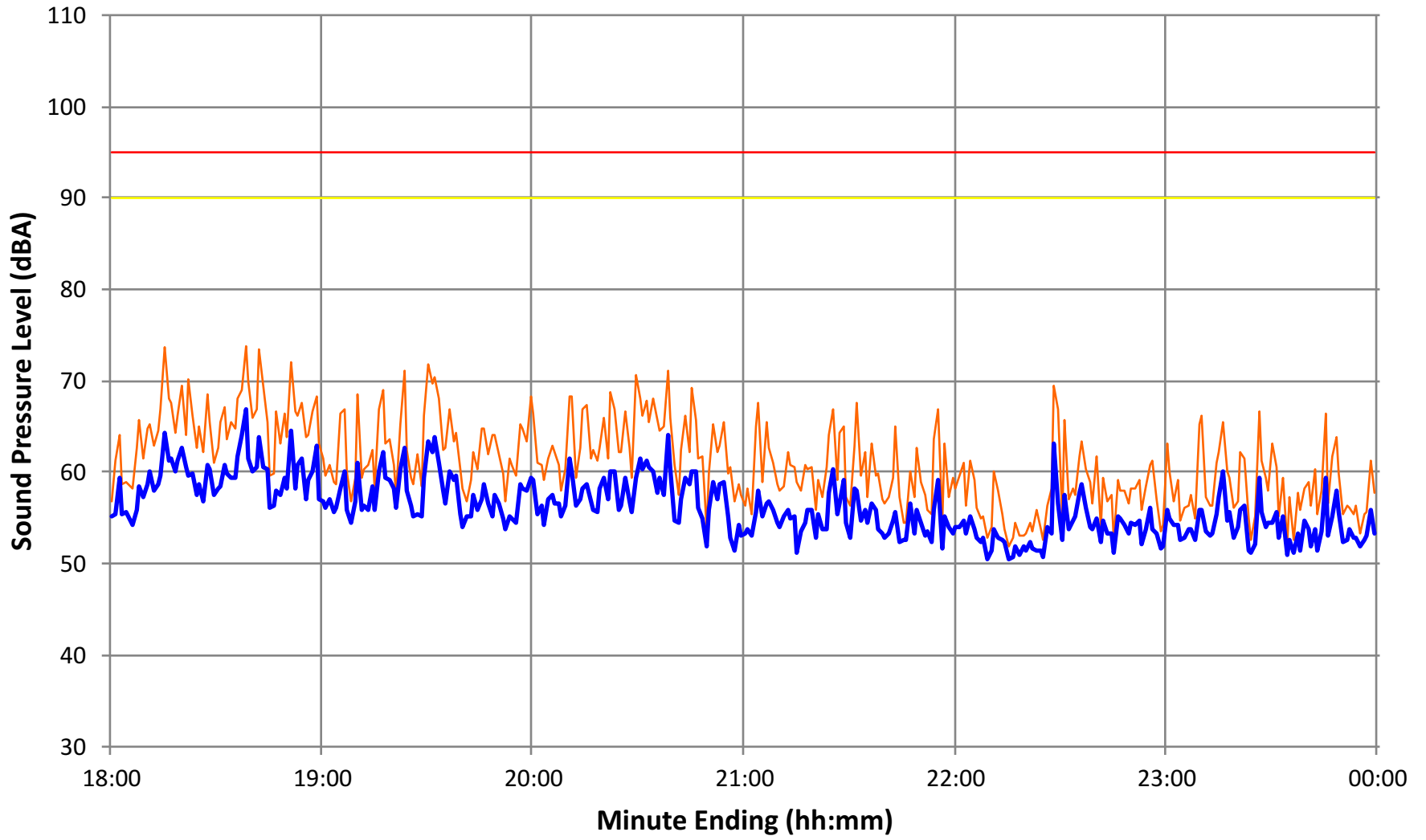
07-23-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

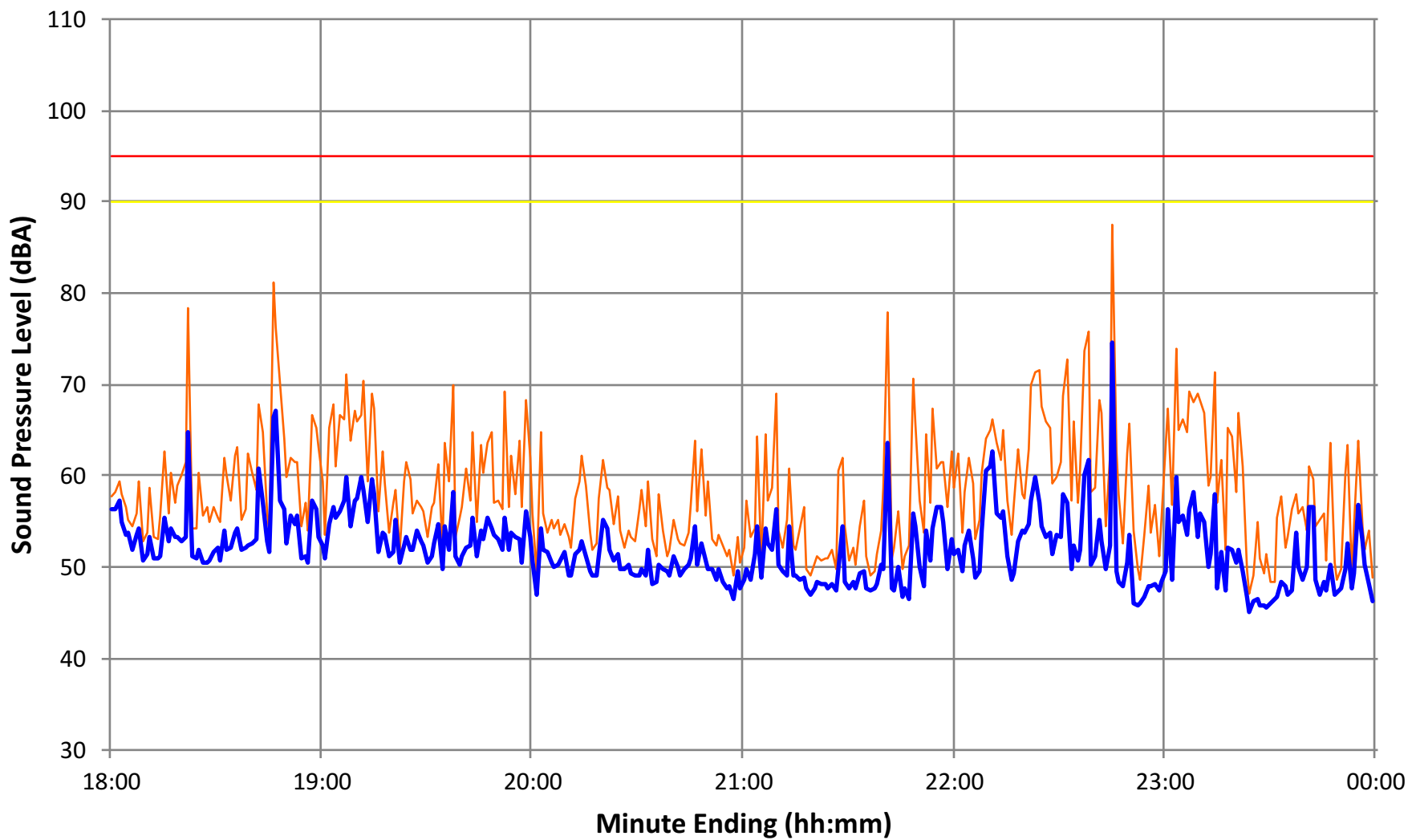
No Event (rain)

07-24-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

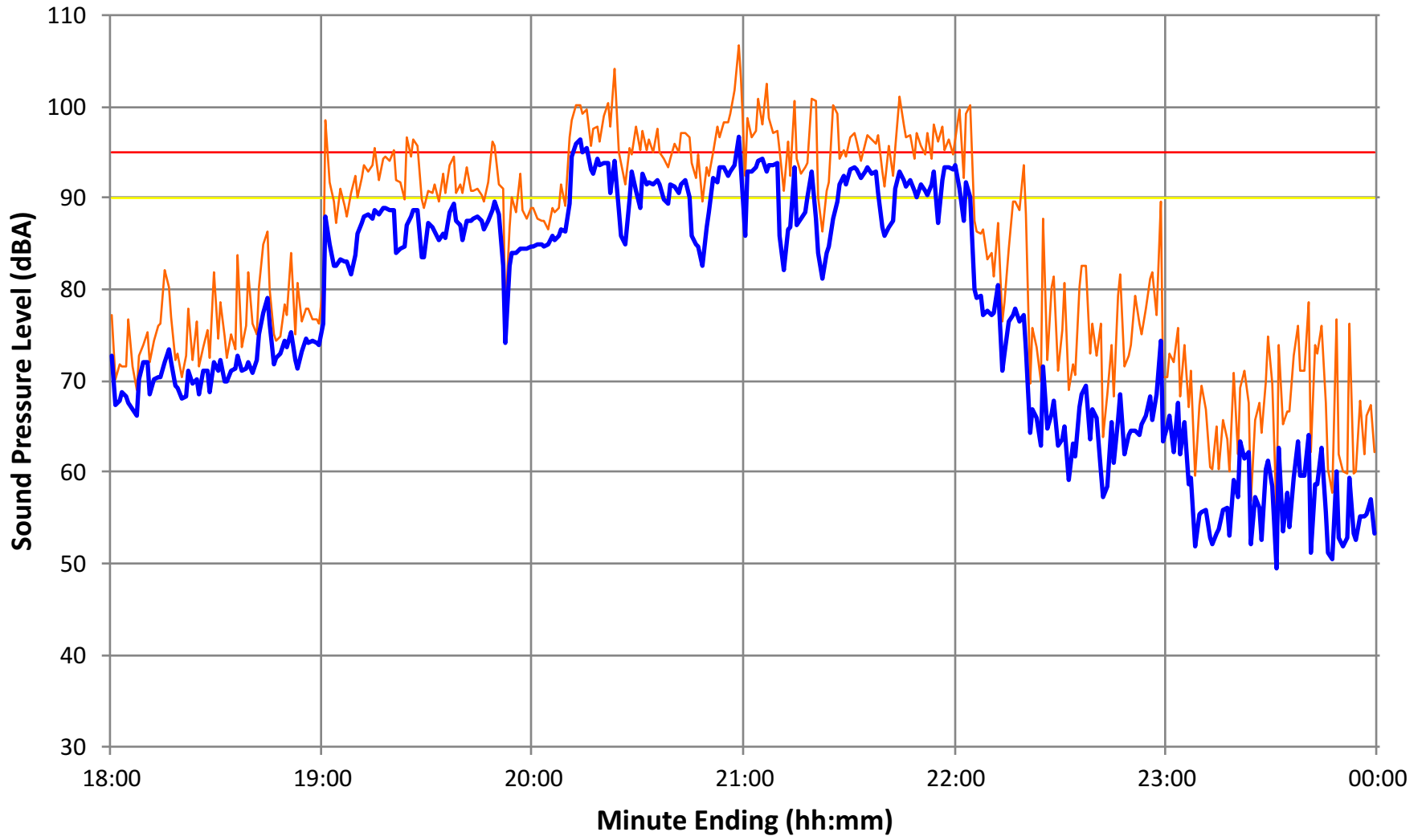
No Event 07-25-2017



— Yellow Light — Red Light — Maximum 1-sec Leq — 1-minute Leq

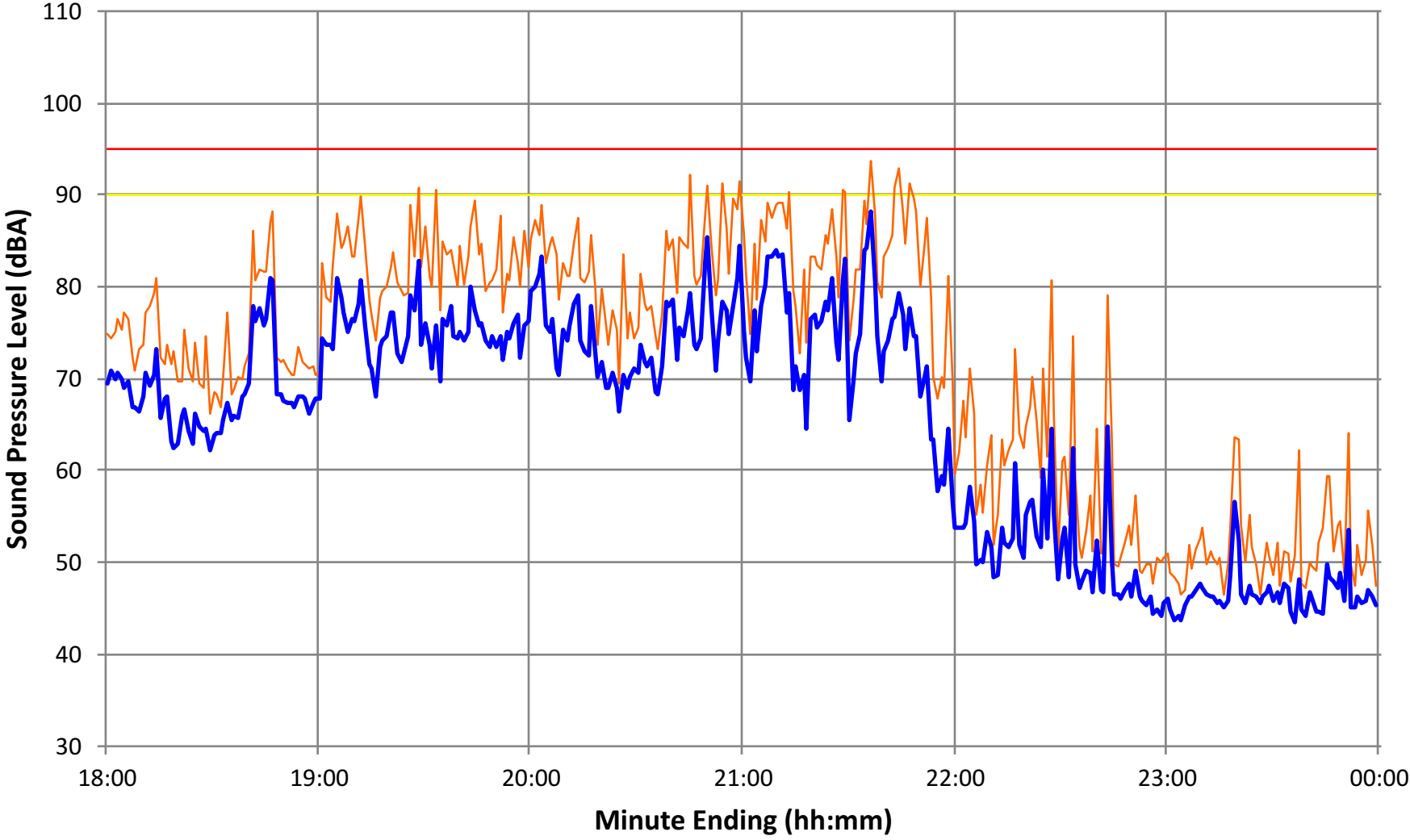
Michael Franti

07-26-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

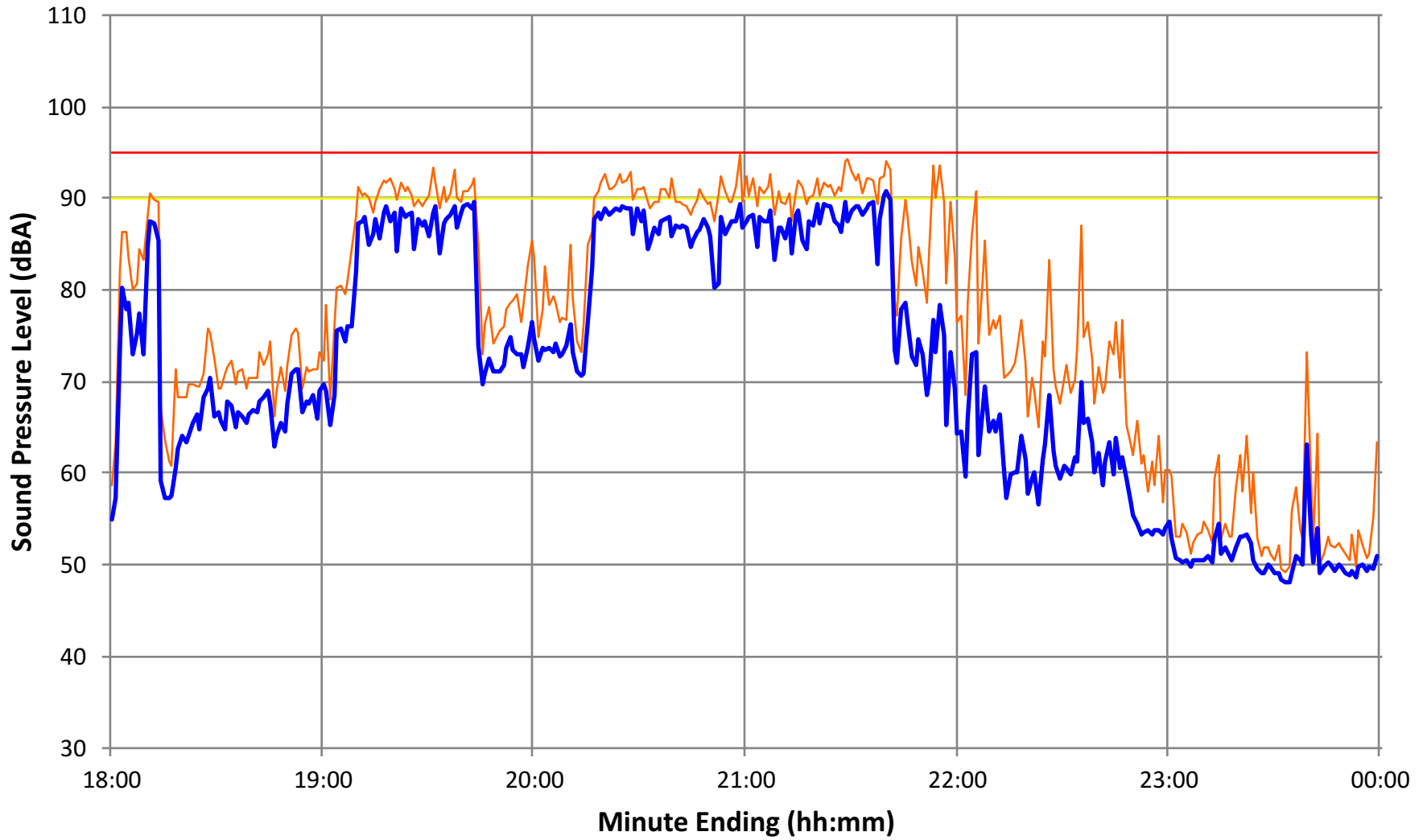
Mary Poppins
07-27-2017



— Yellow Light — Red Light — Maximum 1-sec Leq — 1-minute Leq

New Pornographers

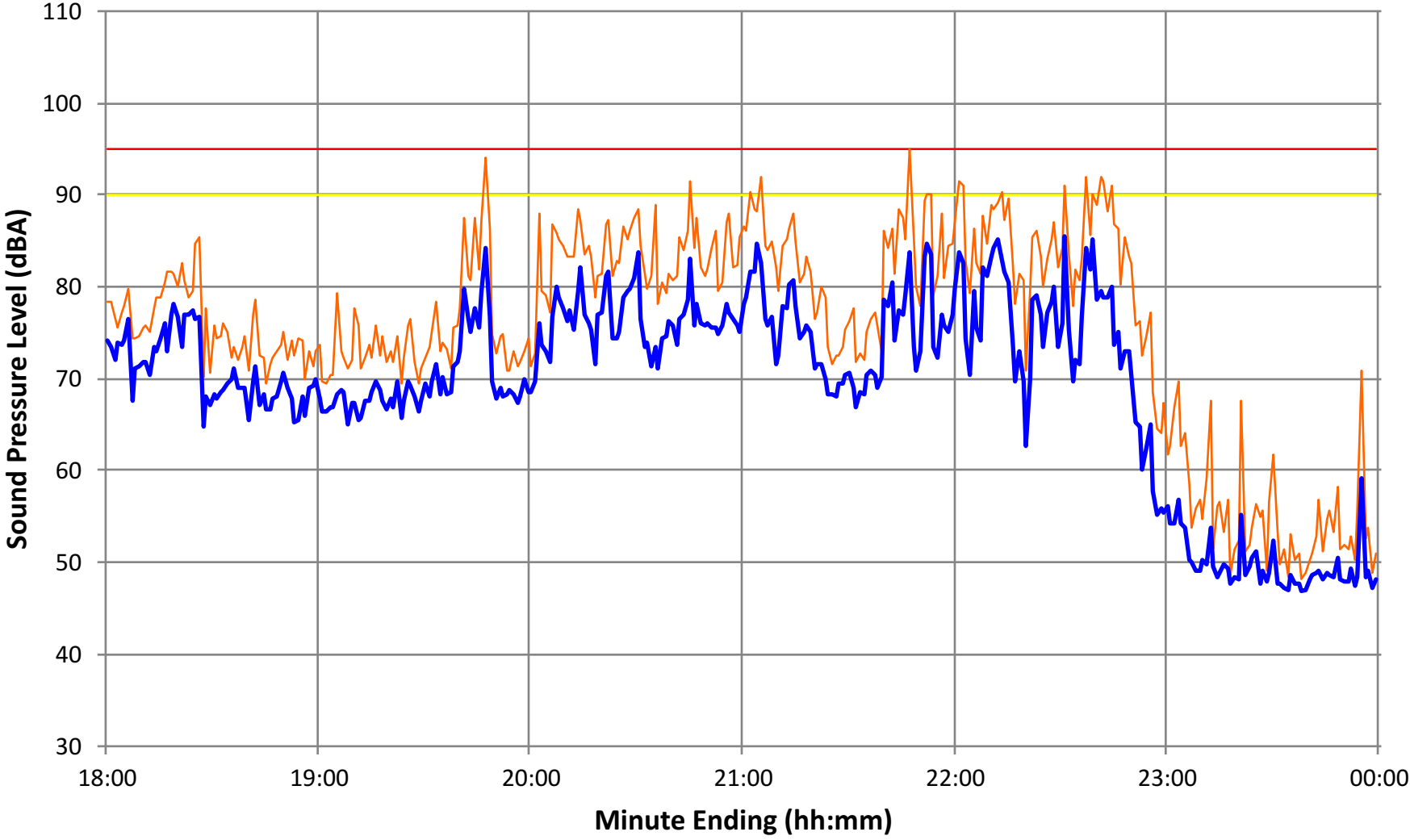
07-28-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq

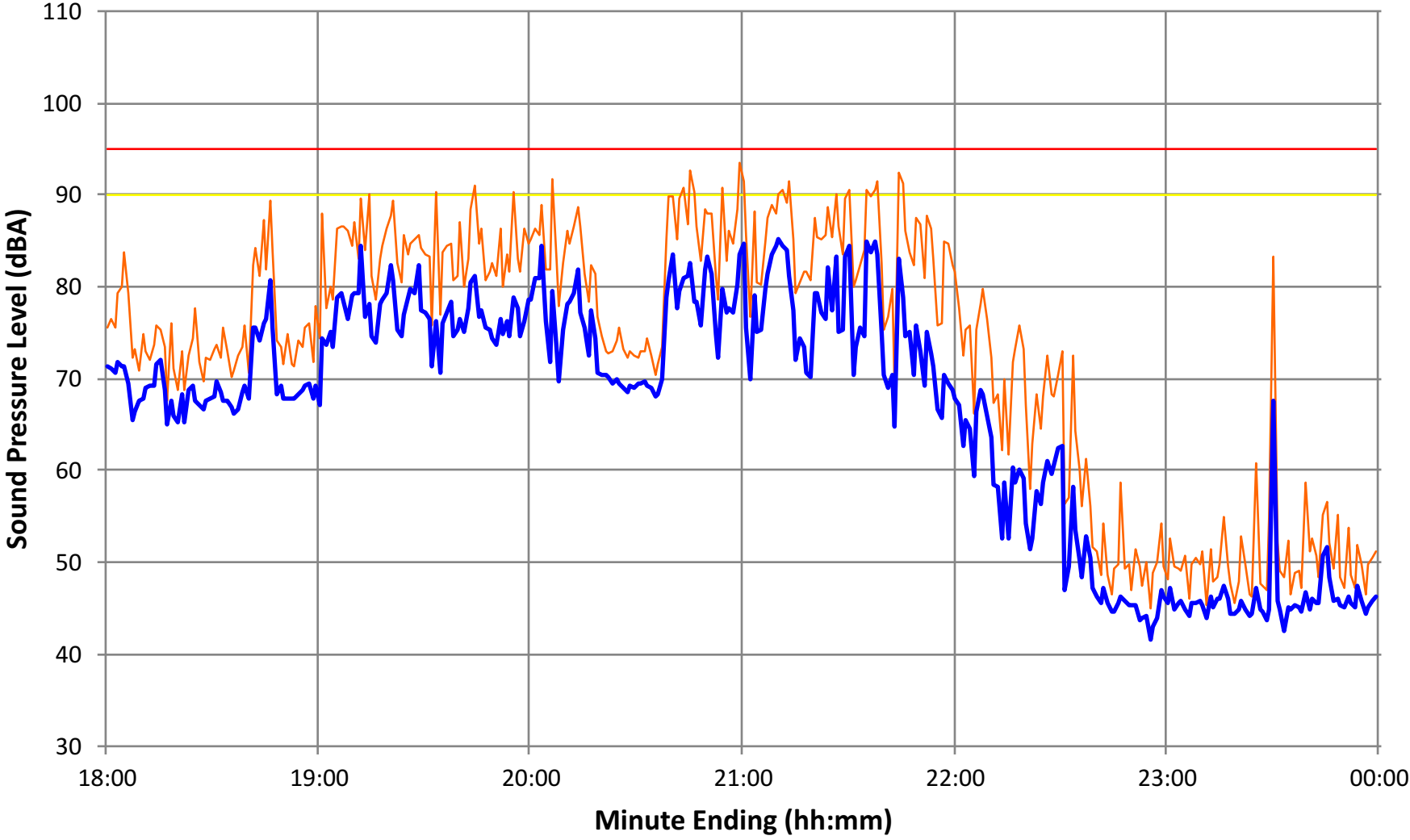
Mary Poppins

07-29-2017



— Yellow Light — Red Light — Maximum 1-sec Leq — 1-minute Leq

Mary Poppins
07-30-2017



Yellow Light Red Light Maximum 1-sec Leq 1-minute Leq