

Appendix 12.3

Baseline Noise and Vibration Information

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November 2017 noise and vibration survey

Overview

Attended noise and vibration measurements were taken at the following locations (N = noise, V = vibration):



Summary of noise measurements

Location	Measured noise levels, dB			
	L _{Aeq,16hr}	L _{AFmax}	L _{A10,18hr}	L _{A90}
N1 (Red Bank)	64	78 - 83	66	50 - 54
N2 (Collyhurst Road)	69	79 - 88	71	49 - 54

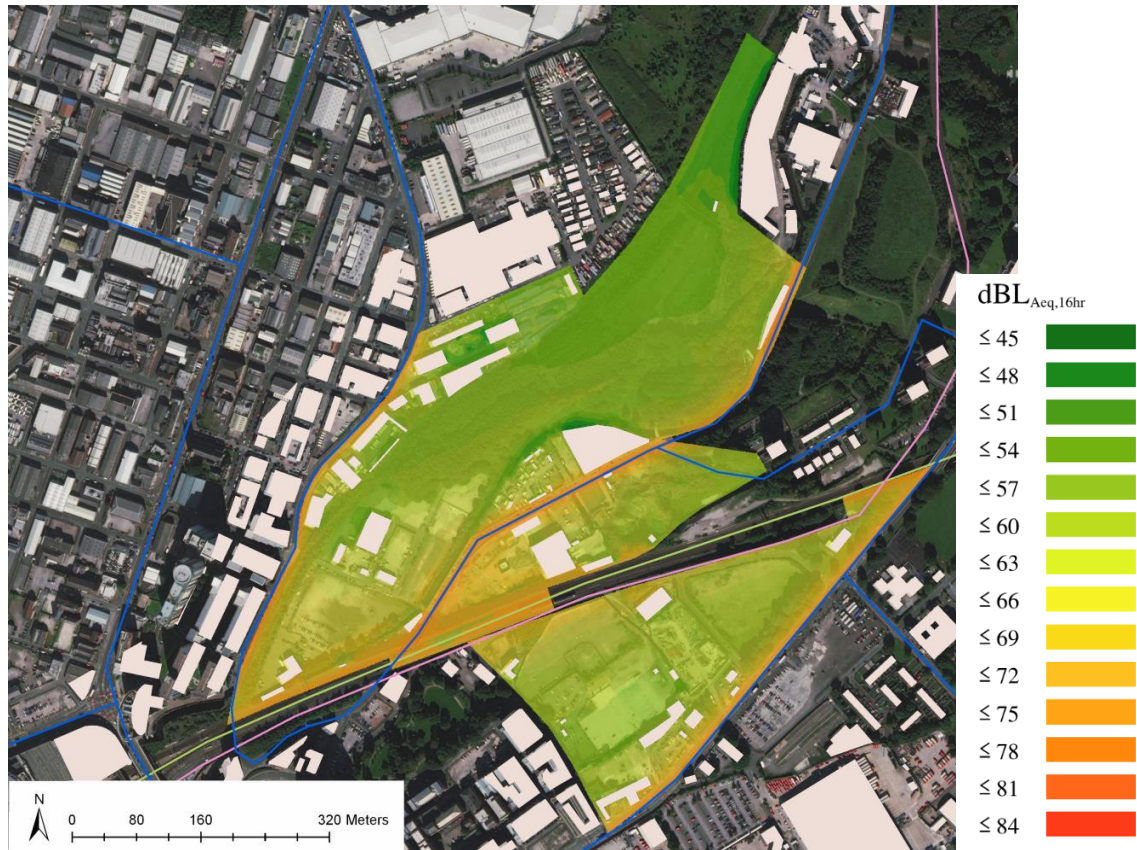
Vibration measurements

Location	Total VDV _{b,day} (16-hour)
V1 (off Dalton St)	0.06

3D environmental noise model

The figure below shows predicted baseline noise level variation across the Red Bank area from the 2017 masterplanning exercise. The model is based on the survey measurements above, along with traffic flow information provided at the time of the study.

The noise levels shown are an average across a typical weekday daytime period (0700-2300).



July 2018 noise and vibration survey

Noise measurements

Location 1

Location Description:

3m from Dantzic Street at the end of Bromley Street and 1.5m above ground.

Environment and Observations:

The noise climate at this location is dominated by road traffic noise from Dantzic Street, train and tram noise from the railway viaduct and building service plant noise from existing businesses nearby.

Measurement Duration:

Mon 29/07/2019 12:01

to

Tue 30/07/2019 06:58

Weather Conditions:

Wind Speed: 3 – 7 mph

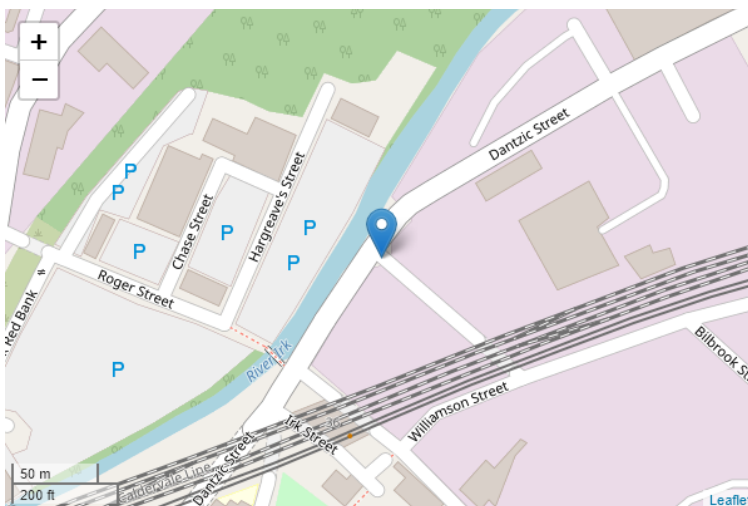
Prevailing wind: From the north during the day and east during the night

Summary: Dry with scattered clouds during the day mild and dry throughout the night.

Personnel:

Sam Peckham

Leah Farrar


Additional Comments:

Period	Measured noise levels, dB			
	L _{A90}	L _{Aeq}	L _{A10}	L _{Amax}
Day (07:00-23:00)	50	68	71	87
Night (23:00-07:00)	48	66	68	85