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NOISE MONITORING MONTHLY MONITORING REPORT – SUMMARY

CARNWATH ROAD RIVERSIDE (CARRR)

DECEMBER 2017

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1 Executive summary

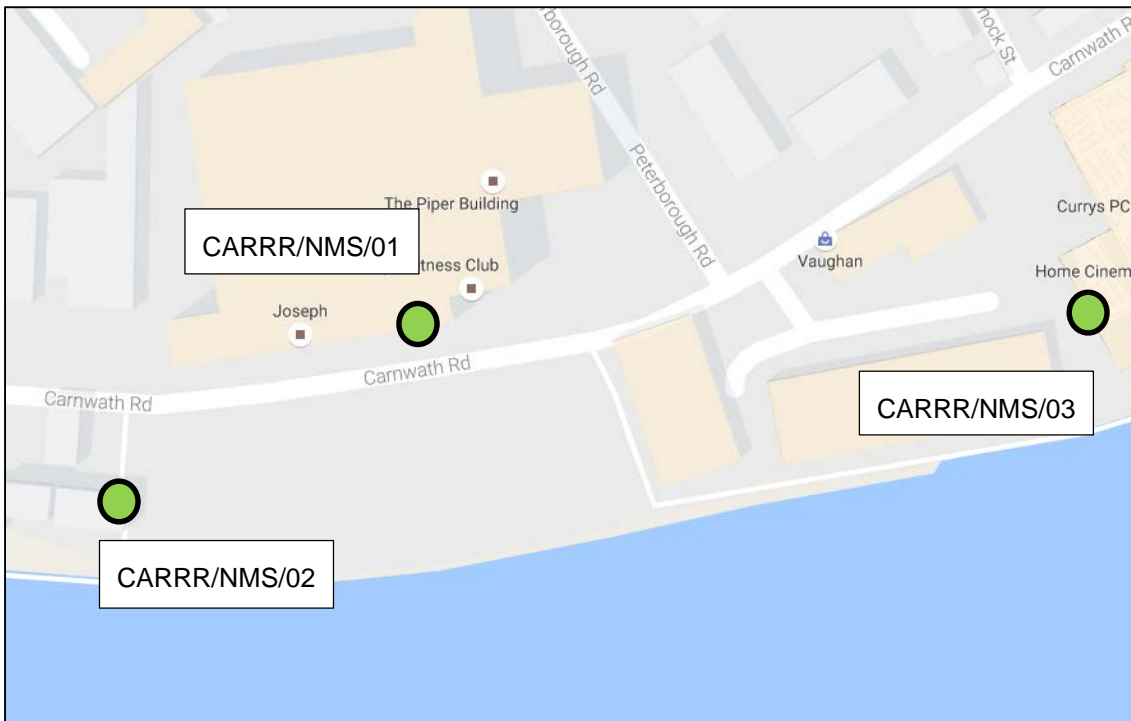
- 1.1.1 This report provides a summary of the monthly noise monitoring carried out during December 2017, at the Carnwath Road Riverside construction site.
- 1.1.2 The report covers the noise and vibration monitoring period between 07:00 hrs on the 1st December 2017 and 07:00 hrs on the 1st January 2018.
- 1.1.3 Some periods of noise monitoring data were excluded due to adverse weather conditions, i.e. high levels of wind and rain.
- 1.1.4 Work taking place on-site during the month of December included :
 - East: Works occurring were installation of the RMD 7.5m hoarding in the eastern corner. This has involved usage of a MEWP and hand tools, drilling and fixing the RMD down in the area. Local TBM construction works using crane and hand-tools also operating in the vicinity. Demolition works to last existing building on site and general site set up.
 - West: RW922 works include excavation and concrete pouring – concrete wagon and pump is situated in within 10m of the monitor – the monitor location was agreed prior to RW922 being decided upon, so the location of the works to the monitor was not anticipated. Construction of acoustic shed, depressurisation boreholes and general site set up.


2 Noise Monitoring Locations

2.1 Introduction

- 2.1.1 The monthly noise monitoring report presents continuous monitoring data undertaken at the monitoring locations detailed below around the Carnwath Road Riverside construction site.
- 2.1.2 The first noise monitor is located to the north of the site (CARRR/NMS/01), the second to the west (CARRR/NMS/02), and the third to the east (CARRR/NMS/03). A plan identifying the locations of all monitoring equipment is presented within Figure 2.1 below.

Figure 2.1 Carnwath Road Noise Monitoring Locations



Key	
	Unattended Noise Monitor

ID	Monitoring Location
-	CARRR/NMS/01
-	CARRR/NMS/02
-	CARRR/NMS/03

2.2 Noise Monitoring location, North of Site Noise Monitor CARRR/NMS/01

2.2.1 The noise monitor is installed on a lamppost to the north of the site approximately 4.1 m above local ground level, in a free-field position.

2.2.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road Traffic on Carnwath Road

2.2.3 Details of the monitoring equipment are presented within Table 2.1 below.

Table 2.1 – Equipment Details CARRR/NM/1

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464685

Results

2.2.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.2 below.

2.2.5 There were no exceedances of the construction noise thresholds at this monitoring location during this month.

2.2.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.2 Monthly Noise Monitoring Summary

Table A.1 North Monitor – CARRR/NMS/01

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	68	87	-	-
	8am-6pm	10 hour	69	-	-	-
	6pm-7pm	1 hour	66	85	-	-
	7pm-10pm	1 hour	66	85	-	-
	Typical hourly level (day)	Mode	69	-	-	-
Saturday	7am-8am	1 hour	65	86	-	-
	8am-1pm	5 hour	69	-	-	-
	1pm-2pm	1 hour	69	85	-	-
	2pm-10pm	1 hour	67	87	-	-
	Typical hourly level (Saturday)	Mode	69	-	-	-
Sunday	7am-10 pm	1 hour	67	85	-	-
	Typical hourly level (Sunday)	Mode	67	-	-	-
All days	10pm-7am	1 hour	60	81	-	-
	Typical hourly level (night)	Mode	61	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead

2.3 Noise Monitoring location, West of Site, Noise Monitor CARRR/NMS/02

2.3.1 The noise monitor is installed on a lamppost to the west of the site approximately 4.9 m above local ground level, approximately 3.6 m from the nearest facade, in a free-field position.

2.3.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road traffic on Carnwath Road
- b. Localised industrial noise

2.3.3 Details of the monitoring equipment are presented within Table 2.3 below.

Table 2.3 – Equipment Details CARRR/NM/2

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464686

Results

2.3.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.4 below.

2.3.5 There were no exceedances of the construction noise thresholds at this monitoring location during this month.

2.3.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.4 Monthly Noise Monitoring Summary

Table A.2 West Monitor – CARRR/NMS/02

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	59	77	-	-
	8am-6pm	10 hour	66	-	-	-
	6pm-7pm	1 hour	57	74	-	-
	7pm-10pm	1 hour	57	74	-	-
	Typical hourly level (day)	Mode	68	-	-	-
Saturday	7am-8am	1 hour	58	78	-	-
	8am-1pm	5 hour	62	-	-	-
	1pm-2pm	1 hour	60	79	-	-
	2pm-10pm	1 hour	58	76	-	-
	Typical hourly level (Saturday)	Mode	63	-	-	-
Sunday	7am-10 pm	1 hour	57	74	-	-
	Typical hourly level (Sunday)	Mode	55	-	-	-
All days	10pm-7am	1 hour	50	68	-	-
	Typical hourly level (night)	Mode	47	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead

2.4 Noise Monitoring location, East of Site Noise Monitor CARRR/NMS/03

2.4.1 The noise monitor is installed to the east of the site approximately 4.9 m above local ground level, in a free-field position.

2.4.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road traffic on Carnwath Road

2.4.3 Details of the monitoring equipment are presented within Table 2.5 below.

Table 2.5 – Equipment Details CARRR/NM/3

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464687

Results

2.4.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.6 below.

2.4.5 There were 0 exceedances of the construction noise thresholds at this monitoring location during this month.

2.4.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.6 Monthly Noise Monitoring Summary

Table A.3 East Monitor – CARRR/NMS/03

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	60	80	-	-
	8am-6pm	10 hour	63	-	-	-
	6pm-7pm	1 hour	58	74	-	-
	7pm-10pm	1 hour	58	74	-	-
	Typical hourly level (day)	Mode	62	-	-	-
Saturday	7am-8am	1 hour	58	80	-	-
	8am-1pm	5 hour	61	-	-	-
	1pm-2pm	1 hour	61	80	-	-
	2pm-10pm	1 hour	58	75	-	-
	Typical hourly level (Saturday)	Mode	61	-	-	-
Sunday	7am-10 pm	1 hour	57	75	-	-
	Typical hourly level (Sunday)	Mode	56	-	-	-
All days	10pm-7am	1 hour	52	68	-	-
	Typical hourly level (night)	Mode	49	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead