



# Environmental Monitoring Data

Project: Sydney Metro City & Southwest– TSE Works

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## Document Approval

Rev.	Date	Prepared by	Reviewed by	Approved by	Remarks
01	14/09/18	D. Windnagel	R. Muir	R. Muir	For publication

## Project Summary

The Sydney Metro City and Southwest is the second portion of the new standalone rail network known as the Sydney Metro which is Australia’s largest public transport infrastructure project and a priority rail project for the NSW Government. John Holland CPB Ghella (JHCPBG) have been contracted by Transport for New South Wales to design and construct the Tunnel and Stations Excavation Works Project (TSE Works) of the Sydney Metro City & Southwest between Chatswood and Sydenham. Figure 1 provides an overview of the Project.



Figure 1: Project Overview

## Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 20971) from the NSW Environment Protection Authority for the Tunnel and Station Excavation (TSE) Works on behalf of the John Holland CPB Ghella (JHCPBG) Joint Venture. The licence is for construction works relating to Rail Systems Activities and Concrete Works as defined under Schedule 1 of the *Protection of the Environment Operations Act, 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the TSE Works, and specifically provides discharge criteria for water treatment plant and sediment basin water quality. The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA’s website:

<https://apps.epa.nsw.gov.au/prpoeoapp/SearchResult.aspx?SearchTag=licence&searchrange=licence&range=licence>

### **Discharge Water Monitoring**

Testing and discharge was undertaken during this reporting period. Table 1 contains the discharge monitoring results.

### **Noise and Vibration Monitoring**

Noise and vibration monitoring was undertaken during this reporting period. Table 2 contains the vibration monitoring results, and Table 3 contains the noise monitoring results.

### **Real-Time Noise and Vibration Monitoring**

Real-time noise and vibration monitors were installed at Barangaroo, Crows Nest, Martin Place, Pitt Street, and Victoria Cross during the August reporting period. Table 4.1 and 4.2 contains summarised real-time noise monitoring results and real-time vibration data is displayed in Table 5.

Table 1: Discharge Water Monitoring Data.

Monitoring Point	Identifier <sup>1</sup>	Date Sampled	Event Based Monitoring (Y/N)	Parameter/ Criteria/ Measured Value			Comments
				pH (6.5 - 8.5)	Turbidity (<35 NTU)	Oil & Grease (None Visible)	
2	MD_01	01/08/2018	Y	7.5	7.4	Nil	Water Treatment Plant
2	CD_02	01/08/2018	Y	6.8	5.3	Nil	Water Treatment Plant
2	MD_01	02/08/2018	Y	7.5	15.4	Nil	Water Treatment Plant
2	CD_02	02/08/2018	Y	6.9	8.0	Nil	Water Treatment Plant
2	MD_01	03/08/2018	Y	7.5	5.3	Nil	Water Treatment Plant
2	CD_02	03/08/2018	Y	6.9	8	Nil	Water Treatment Plant
2	MD_01	04/08/2018	Y	7.6	9.2	Nil	Water Treatment Plant
2	CD_02	04/08/2018	Y	7.1	10.6	Nil	Water Treatment Plant
2	MD_01	05/08/2018	Y	7.6	7.8	Nil	Water Treatment Plant
2	WL_01	06/08/2018	Y	7.9	3.65	Nil	Water Treatment Plant
2	MD_01	06/08/2018	Y	7.5	15.4	Nil	Water Treatment Plant
2	CD_02	06/08/2018	Y	7.1	6.5	Nil	Water Treatment Plant
2	PS_03	07/08/2018	Y	7.42	0.2	Nil	Water Treatment Plant
2	MD_01	07/08/2018	Y	7.5	8.5	Nil	Water Treatment Plant
2	PS_03	07/08/2018	Y	7.16	2.2	Nil	Water Treatment Plant
2	WL_01	07/08/2018	Y	8.2	5.4	Nil	Water Treatment Plant
2	CD_02	07/08/2018	Y	7.1	7.3	Nil	Water Treatment Plant
2	PS_03	08/08/2018	Y	7.42	1.4	Nil	Water Treatment Plant
2	BL_02	08/08/2018	Y	8.34	32.9	Nil	Water Treatment Plant
2	MD_01	08/08/2018	Y	7.6	6.9	Nil	Water Treatment Plant
2	CD_02	08/08/2018	Y	7.3	8.4	Nil	Water Treatment Plant
2	WL_01	09/08/2018	Y	7.7	<30	Nil	Water Treatment Plant
2	PS_03	09/08/2018	Y	7.1	0.1	Nil	Water Treatment Plant

Monitoring Point	Identifier <sup>1</sup>	Date Sampled	Event Based Monitoring (Y/N)	Parameter/ Criteria/ Measured Value			Comments
				pH (6.5 - 8.5)	Turbidity (<35 NTU)	Oil & Grease (None Visible)	
2	MD_01	09/08/2018	Y	7.6	9.8	Nil	Water Treatment Plant
2	CD_02	09/08/2018	Y	7.4	4.7	Nil	Water Treatment Plant
2	MD_01	10/08/2018	Y	7.5	8.5	Nil	Water Treatment Plant
2	CD_02	10/08/2018	Y	7.4	13	Nil	Water Treatment Plant
2	MD_01	11/08/2018	Y	7.6	4.9	Nil	Water Treatment Plant
2	CD_02	11/08/2018	Y	7.5	11.6	Nil	Water Treatment Plant
2	MD_01	13/08/2018	Y	7.5	6.4	Nil	Water Treatment Plant
2	CD_02	13/08/2018	Y	8	9.1	Nil	Water Treatment Plant
2	WL_01	14/08/2018	Y	7.4	3.79	Nil	Water Treatment Plant
2	MD_01	14/08/2018	Y	7.7	15.8	Nil	Water Treatment Plant
2	CD_02	14/08/2018	Y	7.6	5	Nil	Water Treatment Plant
2	MD_01	15/08/2018	Y	7.7	6	Nil	Water Treatment Plant
2	CD_02	15/08/2018	Y	7.9	17.5	Nil	Water Treatment Plant
2	MD_01	16/08/2018	Y	8.2	6.7	Nil	Water Treatment Plant
2	CD_02	16/08/2018	Y	7.9	5.1	Nil	Water Treatment Plant
2	BL_02	16/08/2018	Y	7.1	0.1	Nil	Water Treatment Plant
2	MD_01	17/08/2018	Y	7.5	6.6	Nil	Water Treatment Plant
2	CD_02	17/08/2018	Y	7.9	2.5	Nil	Water Treatment Plant
2	MD_01	18/08/2018	Y	7.8	8.2	Nil	Water Treatment Plant
2	WL_01	20/08/2018	Y	7.5	6.52	Nil	Water Treatment Plant
2	MD_01	20/08/2018	Y	7.6	2.5	Nil	Water Treatment Plant
2	CD_02	20/08/2018	Y	8	4.1	Nil	Water Treatment Plant
2	MD_01	21/08/2018	Y	7.6	9	Nil	Water Treatment Plant
2	CD_02	21/08/2018	Y	8	0.7	Nil	Water Treatment Plant

Monitoring Point	Identifier <sup>1</sup>	Date Sampled	Event Based Monitoring (Y/N)	Parameter/ Criteria/ Measured Value			Comments
				pH (6.5 - 8.5)	Turbidity (<35 NTU)	Oil & Grease (None Visible)	
2	MD_01	22/08/2018	Y	7.7	5.3	Nil	Water Treatment Plant
2	CD_02	22/08/2018	Y	7.5	0.5	Nil	Water Treatment Plant
2	WL_01	23/08/2018	Y	6.9	6.73	Nil	Water Treatment Plant
2	MD_01	23/08/2018	Y	7.7	3.9	Nil	Water Treatment Plant
2	CD_02	23/08/2018	Y	7.5	1.3	Nil	Water Treatment Plant
2	BL_02	23/08/2018	Y	6.5	2	Nil	Water Treatment Plant
2	MD_01	24/08/2018	Y	7.7	8.8	Nil	Water Treatment Plant
2	CD_02	24/08/2018	Y	7.5	0.4	Nil	Water Treatment Plant
2	MD_01	25/08/2018	Y	7.6	8.5	Nil	Water Treatment Plant
2	CD_02	25/08/2018	Y	7.5	10	Nil	Water Treatment Plant
2	CD_02	27/08/2018	Y	7.4	6.3	Nil	Water Treatment Plant
2	WL_01	28/08/2018	Y	7.01	6.98	Nil	Water Treatment Plant
2	MD_01	28/08/2018	Y	7.7	7.2	Nil	Water Treatment Plant
2	CD_02	28/08/2018	Y	7.4	3.4	Nil	Water Treatment Plant
2	WL_01	29/08/2018	Y	7.47	3.96	Nil	Water Treatment Plant
2	MD_01	29/08/2018	Y	7.6	8.5	Nil	Water Treatment Plant
2	CD_02	29/08/2018	Y	7.7	0.2	Nil	Water Treatment Plant
2	MD_01	30/08/2018	Y	7.7	6.9	Nil	Water Treatment Plant
2	CD_02	30/08/2018	Y	7.5	0.3	Nil	Water Treatment Plant
2	BL_02	30/08/2018	Y	6.71	5.5	Nil	Water Treatment Plant
2	PS_03	31/08/2018	Y	7	0.2	Nil	Water Treatment Plant
2	WL_01	31/08/2018	Y	7	4.39	Nil	Water Treatment Plant
2	MD-01	31/08/2018	Y	7.6	8.5	Nil	Water Treatment Plant

<sup>1</sup> As per discharge point identified in Sydney Metro City and Southwest Temporary Basin and Water Treatment Discharge Point Schedule

Table 2: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Measured Value (mm/s)	Goals / Targets (mm/s)	Comments
VC_07, 199 Miller Street, North Sydney.	29/08/2018	Attended	Y	0.16	7.5	TSE Works Compliant.
VC_07, 199 Miller Street, North Sydney.	30/08/2018	Attended	Y	0.56	7.5	TSE Works Compliant.
VC_07, 199 Miller Street, North Sydney.	30/08/2018	Attended	Y	0.45	7.5	TSE Works Compliant.
MP_01, 39 Martin Place, Sydney.	24/08/2018	Un-attended	Y	1.14	25	TSE Works Compliant.

Table 3: Noise Monitoring Data

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
MP_01, 27-39 Castlereagh Street, Sydney	01/08/2018	Attended	Y	LAeq 15 Min	61.8	60	TSE Works compliant. Traffic dominant noise source.
BN_03, 30 High Street, Millers Point	01/08/2018	Attended	Y	LAeq 15 Min	53.3	54	TSE Works Compliant.
BN_03, 2 High Street, Miller	01/08/2018	Attended	Y	LAeq 15 Min	62.4	78	TSE Works Compliant.
BN_03, 30 High Street, Millers Point	01/08/2018	Attended	Y	LAeq 15 Min	52.6	54	TSE Works Compliant
CDS_03, 17 Nelson Street, Chatswood	01/08/2018	Attended	Y	LAeq 15 Min	48.5	83	TSE Works Compliant
BN_03, 2 High Street, Miller	02/08/2018	Attended	Y	LAeq 15 Min	60.9	78	TSE Works Compliant
PS_02, 189 Castlereagh Street, Sydney	02/08/2018	Attended	Y	LAeq 15 Min	59.4	60	TSE Works Compliant
BN_03, 30 High Street, Millers Point	02/08/2018	Attended	Y	LAeq 15 Min	56.9	62	TSE Works compliant.
BN_03, 2 High Street, Millers Point	02/08/2018	Attended	Y	LAeq 15 Min	65.1	73	TSE Works compliant.
MP_03, 64 Pitt Street, Sydney	03/08/2018	Attended	Y	LAeq 15 Min	72.0	77	TSE Works compliant.
MP_01, 27-39 Castlereagh Street, Sydney	03/08/2018	Attended	Y	LAeq 15 Min	65.4	75	TSE Works Compliant
MP_01, 27-39 Castlereagh Street, Sydney	04/08/2018	Attended	Y	LAeq 15 Min	65.4	68	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	04/08/2018	Attended	Y	LAeq 15 Min	43.3	43	TSE Works compliant. Traffic dominant noise source
MDS_02, 330 Edgeware Road, Newtown	04/08/2018	Attended	Y	LAeq 15 Min	44.2	43	TSE Works compliant. Traffic dominant noise source
VC_07, 77 Berry Street, North Sydney	05/08/2018	Attended	Y	LAeq 15 Min	56.7	57	TSE Works Compliant.

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
MP_01, 21 Castlereagh Street, Sydney	06/08/2018	Attended	Y	LAeq 15 Min	69.7	71	TSE Works Compliant
BN_03, 2 High Street, Millers Point	06/08/2018	Attended	Y	LAeq 15 Min	65.1	66	TSE Works Compliant
BN_03, 30 High Street, Millers Point	06/08/2018	Attended	Y	LAeq 15 Min	57.9	66	TSE Works Compliant
MP_01, 21 Castlereagh Street, Sydney	06/08/2018	Attended	Y	LAeq 15 Min	70.6	71	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	07/08/2018	Attended	Y	LAeq 15 Min	51.6	55	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	07/08/2018	Attended	Y	LAeq 15 Min	55.1	55	TSE Works compliant. Traffic dominant noise source
VC_05, Level 2 237 Miller Street, North Sydney	07/08/2018	Attended	Y	LAeq 15 Min	52.4	60	TSE Works Compliant
VC_05, Level 2 237 Miller Street, North Sydney	07/08/2018	Attended	Y	LAeq 15 Min	78.6	82	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	07/08/2018	Attended	Y	LAeq 15 Min	46.7	43	TSE Works Compliant. Traffic dominant noise source
BN_03, 30 High Street, Millers Point	07/08/2018	Attended	Y	LAeq 15 Min	54.1	66	TSE Works Compliant
BN_03, 2 High Street, Millers Point	07/08/2018	Attended	Y	LAeq 15 Min	53.0	66	TSE Works Compliant
MP_04, 9 - 19 Elizabeth Street, Sydney	07/08/2018	Attended	Y	LAeq 15 Min	69.6	65	TSE Works Compliant. Traffic dominant noise source
MP_01, 21 Castlereagh Street, Sydney	07/08/2018	Attended	Y	LAeq 15 Min	67.9	71	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	08/08/2018	Attended	Y	LAeq 15 Min	57.9	58	TSE Works Compliant. Traffic dominant noise source
CDS_03, 15 Nelson Street, Chatswood	08/08/2018	Attended	Y	LAeq 15 Min	57.8	59	TSE Works Compliant. Works Inaudible

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
VC_06, 100 Miller Street, North Sydney	08/08/2018	Attended	Y	LAeq 15 Min	70.5	74	TSE Works Compliant
VC_07, 199 Miller Street, North Sydney	08/08/2018	Attended	Y	LAeq 15 Min	66.8	71	TSE Works Compliant
BN_02, 1 Argyle Street, Barangaroo	08/08/2018	Attended	Y	LAeq 15 Min	66.1	69	TSE Works Compliant
BN_02, 68 Bettington Street, Barangaroo	08/08/2018	Attended	Y	LAeq 15 Min	59.9	69	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	08/08/2018	Attended	Y	LAeq 15 Min	72.3	77	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	08/08/2018	Attended	Y	LAeq 15 Min	57.9	91	TSE Works Compliant
BN_03, 30 High Street, Millers Point	09/08/2018	Attended	Y	LAeq 15 Min	56.0	64	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	09/08/2018	Attended	Y	LAeq 15 Min	71.6	75	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	09/08/2018	Attended	Y	LAeq 15 Min	63.3	75	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	09/08/2018	Attended	Y	LAeq 15 Min	60.9	55	TSE Works compliant. Traffic dominant noise source
MDS_02, 330 Edgeware Road, Newtown	09/08/2018	Attended	Y	LAeq 15 Min	62.6	91	TSE Works compliant. Traffic dominant noise source
BN_02, 25A Hickson Road, Millers Point	09/08/2018	Attended	Y	LAeq 15 Min	65.3	55	TSE Works compliant. Traffic dominant noise source
MDS_02, 330 Edgeware Road, Newtown	10/08/2018	Attended	Y	LAeq 15 Min	60.0	75	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	10/08/2018	Attended	Y	LAeq 15 Min	61.3	55	TSE Works compliant. Traffic dominant noise source
BN_02, 25A Hickson Road, Millers Point	10/08/2018	Attended	Y	LAeq 15 Min	69.2	75	TSE Works Compliant

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
MDS_02, 330 Edgeware Road, Newtown	10/08/2018	Attended	Y	LAeq 15 Min	64.5	91	TSE Works Compliant
BN_02, 25A Hickson Road, Millers Point	10/08/2018	Attended	Y	LAeq 15 Min	61.6	55	TSE Works Compliant
BN_02, 25A Hickson Rd, Barangaroo	13/08/2018	Attended	Y	LAeq 15 Min	66.4	75	TSE works compliant. Traffic major contributor to noise
BN_02, 25A Hickson Rd, Barangaroo	13/08/2018	Attended	Y	LAeq 15 Min	69.4	75	TSE works compliant. Traffic major contributor to noise
BN_02, 25A Hickson Rd, Barangaroo	13/08/2018	Attended	Y	LAeq 15 Min	61.1	55	TSE works compliant. Traffic dominant noise source
MP_01, 165 Phillip Street (Footpath of Elizabeth)	13/08/2018	Attended	Y	LAeq 15 Min	61.9	55	TSE Works compliant. Traffic dominant noise source
MP_01, 165 Phillip Street (Footpath of Elizabeth)	13/08/2018	Attended	Y	LAeq 15 Min	60.8	70	TSE Works compliant. Traffic dominant noise source
MDS_04, 4 Unwins Bridge Road, St. Peters	14/08/2018	Attended	Y	LAeq 15 Min	68.7	46	TSE Works inaudible. Traffic was dominant noise source
BN_02, 25A Hickson Rd, Barangaroo	14/08/2018	Attended	Y	LAeq 15 Min	66.5	75	TSE Works compliant. Traffic dominant noise source
MP_01, 165 Phillip Street (Footpath of Elizabeth)	14/08/2018	Attended	Y	LAeq 15 Min	56.6	70	TSE Works compliant. Traffic dominant noise source
MP_01, 165 Phillip Street (Footpath of Elizabeth)	14/08/2018	Attended	Y	LAeq 15 Min	54.3	43	TSE Works compliant. Traffic dominant noise source
MDS_02, 330 Edgeware Road, Newtown	14/08/2018	Attended	Y	LAeq 15 Min	60.9	43	TSE Works compliant. Traffic dominant noise source
MDS_04, 4 Unwins Bridge Road, St. Peters	15/08/2018	Attended	Y	LAeq 15 Min	56.2	46	TSE Works inaudible. Traffic was dominant noise source
BN_02, 25A Hickson Rd, Barangaroo	15/08/2018	Attended	Y	LAeq 15 Min	60.9	55	TSE Works compliant. Traffic dominant noise source. Faint generator noise
MP_01, 165 Phillip Street (Footpath of Elizabeth)	15/08/2018	Attended	Y	LAeq 15 Min	65.1	55	TSE Works compliant. Traffic dominant noise source

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
VC_06, 100 Miller Street, North Sydney	15/08/2018	Attended	Y	LAeq 15 Min	61.0	79	TSE Works compliant
VC_06, 100 Miller Street, North Sydney	15/08/2018	Attended	Y	LAeq 15 Min	60.2	59	TSE Works compliant. Traffic dominant noise source
VC_07, 199 Miller Street, North Sydney	15/08/2018	Attended	Y	LAeq 15 Min	61.8	59	TSE Works compliant
VC_07, 199 Miller Street, North Sydney	15/08/2018	Attended	Y	LAeq 15 Min	64.9	59	TSE Works compliant. Bar and restaurant dominant noise sources
MDS_02, 330 Edgeware Road, Newtown	16/08/2018	Attended	Y	LAeq 15 Min	68.1	79	TSE Works compliant. Traffic dominant noise source
VC_06, 100 Miller Street, North Sydney	16/08/2018	Attended	Y	LAeq 15 Min	67.5	79	TSE Works compliant
VC_06, 100 Miller Street, North Sydney	16/08/2018	Attended	Y	LAeq 15 Min	65.2	79	TSE Works compliant
VC_06, 100 Miller Street, North Sydney	16/08/2018	Attended	Y	LAeq 15 Min	65.2	79	TSE Works compliant
MDS_02, 330 Edgeware Road, Newtown	17/08/2018	Attended	Y	LAeq 15 Min	62.7	43	TSE Works compliant. Traffic dominant noise source
BN_03, 30 High Street, Millers Point	17/08/2018	Attended	Y	LAeq 15 Min	58.5	55	TSE Works compliant. Traffic dominant noise source
BN_03, 81 Kent Street	17/08/2018	Attended	Y	LAeq 15 Min	61.1	55	TSE Works compliant. Traffic dominant noise source
BN_03, 30 High Street, Millers Point	17/08/2018	Attended	Y	LAeq 15 Min	56.0	55	TSE Works compliant. Traffic dominant noise source
BN_02, 68 Bettington Rd, Barangaroo	17/08/2018	Attended	Y	LAeq 15 Min	55.1	55	TSE Works compliant. Traffic and pedestrians dominant noise source.
MDS_02, 330 Edgeware Road, Newtown	20/08/2018	Attended	Y	LAeq 15 Min	63.7	91	TSE Works Compliant
VC_01, 100 Miller Street, North Sydney	21/08/2018	Attended	Y	LAeq 15 Min	60.1	70	TSE Works Compliant

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
CDS_03, 2 Nelson Street, Chatswood	21/08/2018	Attended	Y	LAeq 15 Min	56.8	52	TSE works compliant. Traffic dominant noise source.
CDS_03, 2 Nelson Street, Chatswood	21/08/2018	Attended	Y	LAeq 15 Min	58.9	52	TSE works compliant. Traffic dominant noise source.
CDS_03, 2 Nelson Street, Chatswood	21/08/2018	Attended	Y	LAeq 15 Min	60.2	52	TSE works compliant. Traffic dominant noise source.
CDS_03, 9-11 Nelson Street, Chatswood	21/08/2018	Attended	Y	LAeq 15 Min	64.2	52	TSE works compliant. Traffic dominant noise source.
CDS_06, 342 Mowbray Road, Chatswood	21/08/2018	Attended	Y	LAeq 15 Min	66.3	52	TSE works compliant. Traffic dominant noise source.
VC_07, 199 Miller Street, North Sydney	21/08/2018	Attended	Y	LAeq 15 Min	65.2	63	TSE works compliant. Traffic dominant noise source.
VC_07, 80 Berry Street, North Sydney	22/08/2018	Attended	Y	LAeq 15 Min	67.0	63	TSE works compliant. Traffic dominant noise source.
CDS_06, 342 Mowbray Road, Chatswood	22/08/2018	Attended	Y	LAeq 15 Min	64.5	64	TSE works compliant. Traffic dominant noise source.
VC_07, 199 Miller Street, North Sydney	24/08/2018	Attended	Y	LAeq 15 Min	72.5	76	TSE Works Compliant. Inaudible.
VC_07, 80 Berry Street, North Sydney	24/08/2018	Attended	Y	LAeq 15 Min	69.0	75	TSE Works Compliant. Inaudible.
CDS_03, 1-3 Gordon Avenue, Chatswood	25/08/2018	Attended	Y	LAeq 15 Min	84.7	94	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	27/08/2018	Attended	Y	LAeq 15 Min	64.4	68	TSE Works Compliant
VC_06, 100 Miller Street, North Sydney	27/08/2018	Attended	Y	LAeq 15 Min	68.9	70	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	27/08/2018	Attended	Y	LAeq 15 Min	56.2	63	TSE Works Compliant
VC_06, 100 Miller Street, North Sydney	27/08/2018	Attended	Y	LAeq 15 Min	62.3	70	TSE Works Compliant

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
MP_03, 61-101 Phillip Street, Sydney	27/08/2018	Attended	Y	LAeq 15 Min	68.6	65	TSE works compliant. Traffic dominant noise source.
MP_01, 165 Phillip Street, Sydney	27/08/2018	Attended	Y	LAeq 15 Min	69.1	70	TSE Works Compliant
CDS_03, 2 Nelson Street, Chatswood	28/08/2018	Attended	Y	LAeq 15 Min	59.8	59	TSE works compliant. Traffic dominant noise source.
VC_07, 199 Miller Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	63.9	74	TSE Works Compliant
VC_07, 199 Miller Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	71.1	74	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	67.9	68	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	53.1	57	TSE Works Compliant
VC_06, 100 Miller Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	66.0	70	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	28/08/2018	Attended	Y	LAeq 15 Min	61.9	68	TSE Works Compliant
BN_03, 30 High Street, Millers Point	28/08/2018	Attended	Y	LAeq 15 Min	54.3	55	TSE Works Compliant
MP_03, 61-101 Phillip Street, Sydney	28/08/2018	Attended	Y	LAeq 15 Min	67.7	60	TSE works compliant. Traffic dominant noise source.
MP_01, 165 Phillip Street, Sydney	28/08/2018	Attended	Y	LAeq 15 Min	66.5	60	TSE works compliant. Traffic dominant noise source.
MDS_02, 330 Edgeware Road, Newtown	28/08/2018	Attended	Y	LAeq 15 Min	71.4	72	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	28/08/2018	Attended	Y	LAeq 15 Min	71.3	72	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	28/08/2018	Attended	Y	LAeq 15 Min	61.3	72	TSE Works Compliant

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
CDS_06, 344 Mowbray Road, Chatswood	29/08/2018	Attended	Y	LAeq 15 Min	69.3	84	TSE Works Compliant
CN_04, 420 Pacific Highway, Crows Nest	29/08/2018	Attended	Y	LAeq 15 Min	66.1	72	TSE Works Compliant
VC_01, 100 Miller Street, North Sydney	29/08/2018	Attended	Y	LAeq 15 Min	65.7	70	TSE Works Compliant
VC_07, 199 Miller Street, North Sydney	29/08/2018	Attended	Y	LAeq 15 Min	68.6	74	TSE Works Compliant
BN_03, 3 High Street, Millers Point	29/08/2018	Attended	Y	LAeq 15 Min	52.2	48	TSE works compliant. Non-TSE works dominant noise source.
MDS_02, 330 Edgeware Road, Newtown	29/08/2018	Attended	Y	LAeq 15 Min	64.7	72	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	29/08/2018	Attended	Y	LAeq 15 Min	61.4	72	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	29/08/2018	Attended	Y	LAeq 15 Min	62.5	57	TSE works compliant. Traffic dominant noise source.
MDS_02, 330 Edgeware Road, Newtown	29/08/2018	Attended	Y	LAeq 15 Min	61.7	43	TSE Works Compliant
CDS_06, 344 Mowbray Road, Chatswood	30/08/2018	Attended	Y	LAeq 15 Min	63.8	69	TSE Works Compliant
BN_03, 3 High Street, Millers Point	30/08/2018	Attended	Y	LAeq 15 Min	49.0	45	TSE works compliant. Non-TSE works dominant noise source.
MP_02, 17 Castlereagh Street, Sydney	30/08/2018	Attended	Y	LAeq 15 Min	62.6	70	TSE Works Compliant
PS_02, 189 Castlereagh Street, Sydney	30/08/2018	Attended	Y	LAeq 15 Min	64.8	65	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	30/08/2018	Attended	Y	LAeq 15 Min	59.5	50	TSE works compliant. Traffic dominant noise source.
CN_04, 420 Pacific Highway, Crows Nest	31/08/2018	Attended	Y	LAeq 15 Min	70.9	89	TSE Works Compliant

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
CN_04, 420 Pacific Highway, Crows Nest	31/08/2018	Attended	Y	LAeq 15 Min	74.9	89	TSE Works Compliant
VC_07, 80 Berry Street, North Sydney	31/08/2018	Attended	Y	LAeq 15 Min	61.8	63	TSE Works Compliant
BN_02, 68 Bettington Road, Millers Point	31/08/2018	Attended	Y	LAeq 15 Min	59.1	65	TSE Works Compliant
MDS_02, 330 Edgeware Road, Newtown	31/08/2018	Attended	Y	LAeq 15 Min	61.0	43	TSE works compliant. Traffic dominant noise source.
MDS_02, 330 Edgeware Road, Newtown	31/08/2018	Attended	Y	LAeq 15 Min	54.2	43	TSE works compliant. Traffic dominant noise source.

Table 4-1 Summary of Real Time Noise Analysis

Date	Location & Noise Goal																			
	545 Pacific Hwy		10 to 12 Clarke St		65 Berry St		Castlereagh Boutique Hotel		Radisson Hotel		Edinburgh Castle Hotel		50 Martin Pl		25A Hickson Rd		243 Miller St		60 Castlereagh St	
	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
1/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes
2/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
3/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes
4/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
5/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
6/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes
7/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes
8/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
9/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
10/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
11/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
12/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
13/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
14/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
15/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
16/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
17/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes
18/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Date	Location & Noise Goal																			
	545 Pacific Hwy		10 to 12 Clarke St		65 Berry St		Castlereagh Boutique Hotel		Radisson Hotel		Edinburgh Castle Hotel		50 Martin Pl		25A Hickson Rd		243 Miller St		60 Castlereagh St	
	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
19/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31/08/2018	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table 4-2: Real-Time Noise Monitoring Data

Report for Condition E1.1 on 01/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	2	Yes	
	Lower	39	31	Yes	
65 Berry St	Upper	26	1	Yes	
	Lower	39	16	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	11	Yes	
Radisson Hotel	Upper	6.5	0	Yes	
	Lower	9.75	1	Yes	
Edinburgh Castle Hotel	Upper	26	4	Yes	
	Lower	39	21	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	35	No	2
	Lower	39	38	Yes	2
60 Castlereagh St	Upper	17	2	Yes	
	Lower	25.5	2	Yes	
Report for Condition E1.1 on 02/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	3	Yes	
	Lower	39	32	Yes	
65 Berry St	Upper	26	2	Yes	
	Lower	39	17	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	6	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	20	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	21	Yes	
	Lower	39	36	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 03/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	9	Yes	
	Lower	39	29	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	12	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	4	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	24	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	30	No	2
	Lower	39	39	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 04/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	3	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	4	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	6	Yes	
Edinburgh Castle Hotel	Upper	26	2	Yes	
	Lower	39	48	No	3
50 Martin Place	Upper	8	0	Yes	
	Lower	12	0	Yes	
25A Hickson Road	Upper	26	45	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	13	Yes	
	Lower	39	16	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	1	Yes	

Report for Condition E1.1 on 05/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	0	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	5	Yes	
50 Martin Place	Upper	31	0	Yes	
	Lower	46.5	0	Yes	
25A Hickson Road	Upper	26	35	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	0	Yes	
	Lower	39	1	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 06/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	5	Yes	
	Lower	39	31	Yes	
65 Berry St	Upper	26	2	Yes	
	Lower	39	6	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	7	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	15	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	32	No	2
	Lower	39	35	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 07/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	1	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	18	Yes	
65 Berry St	Upper	26	1	Yes	
	Lower	39	3	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	4	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	18	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	2	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	30	No	2
	Lower	39	41	No	2
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	1	Yes	
Report for Condition E1.1 on 08/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	18	Yes	
65 Berry St	Upper	26	3	Yes	
	Lower	39	9	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	15	Yes	
Edinburgh Castle Hotel	Upper	26	2	Yes	
	Lower	39	17	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	26	Yes	
	Lower	39	38	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 09/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	3	Yes	
	Lower	39	29	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	5	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	20	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	8	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	1	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	23	Yes	
	Lower	39	35	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 10/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	1	Yes	
	Lower	39	22	Yes	
65 Berry St	Upper	26	1	Yes	
	Lower	39	17	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	9	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	20	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	21	16	Yes	
	Lower	31.5	19	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 11/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	2	Yes	
	Lower	39	7	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	1	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	6	Yes	
Edinburgh Castle Hotel	Upper	26	2	Yes	
	Lower	39	7	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	50	No	1
	Lower	39	52	No	1
243 Miller St	Upper	23	9	Yes	
	Lower	34.5	10	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 12/08/2018					
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	0	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	3	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	23	Yes	
	Lower	39	51	No	1
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 13/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	3	Yes	
	Lower	39	24	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	14	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	19	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	9	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	7	Yes	
	Lower	39	23	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 14/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	2	Yes	
	Lower	39	14	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	21	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	8	Yes	
Edinburgh Castle Hotel	Upper	26	2	Yes	
	Lower	39	11	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	2	Yes	
	Lower	39	22	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 15/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	8	Yes	
	Lower	39	26	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	19	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	5	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	9	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	24.5	7	Yes	
	Lower	36.75	24	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	1	Yes	
Report for Condition E1.1 on 16/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	27	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	18	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	7	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	6	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	52	No	1
	Lower	39	52	No	1
243 Miller St	Upper	26	1	Yes	
	Lower	39	29	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 17/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	10	Yes	
	Lower	39	35	Yes	
65 Berry St	Upper	26	2	Yes	
	Lower	39	19	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	2	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	19	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	42	No	1
	Lower	39	42	No	1
243 Miller St	Upper	26	5	Yes	
	Lower	39	16	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	8	Yes	
Report for Condition E1.1 on 18/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	7	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	2	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	9	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	4	Yes	

Report for Condition E1.1 on 19/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	0	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 20/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	8	Yes	
	Lower	39	27	Yes	
65 Berry St	Upper	26	20	Yes	
	Lower	39	34	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	5	Yes	
	Lower	39	23	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	2	Yes	
	Lower	39	9	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 21/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	4	Yes	
	Lower	39	29	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	19	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	10	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	3	Yes	
	Lower	39	13	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	1	Yes	
Report for Condition E1.1 on 22/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	3	Yes	
	Lower	39	22	Yes	
65 Berry St	Upper	26	1	Yes	
	Lower	39	9	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	1	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	14	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	1	Yes	
	Lower	39	8	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	1	Yes	

Report for Condition E1.1 on 23/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	4	Yes	
	Lower	39	28	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	2	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	1	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	13	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 24/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	2	Yes	
	Lower	39	24	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	6	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	22	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	5	Yes	
	Lower	39	12	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 25/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	2	Yes	
	Lower	39	12	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	9	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	1	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 26/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	0	Yes	
	Lower	39	0	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 27/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	6	Yes	
	Lower	39	38	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	15	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	4	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	1	Yes	
	Lower	39	15	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 28/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	3	Yes	
	Lower	39	24	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	3	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	10	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	5	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 29/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	5	Yes	
	Lower	39	27	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	1	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	6	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	0	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Report for Condition E1.1 on 30/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	10	Yes	
	Lower	39	33	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	0	Yes	
	Lower	39	11	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	0	Yes	
243 Miller St	Upper	26	4	Yes	
	Lower	39	29	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

Report for Condition E1.1 on 31/08/2018					Comment
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?	
		Permitted	Exceeded		
545 Pacific Highway	Upper	26	0	Yes	
	Lower	39	0	Yes	
10 to 12 Clarke Street	Upper	26	21	Yes	
	Lower	39	33	Yes	
65 Berry St	Upper	26	0	Yes	
	Lower	39	0	Yes	
Castlereagh Boutique Hotel	Upper	26	0	Yes	
	Lower	39	0	Yes	
Edinburgh Castle Hotel	Upper	26	1	Yes	
	Lower	39	23	Yes	
50 Martin Place	Upper	26	0	Yes	
	Lower	39	0	Yes	
25A Hickson Road	Upper	26	0	Yes	
	Lower	39	1	Yes	
243 Miller St	Upper	26	0	Yes	
	Lower	39	3	Yes	
60 Castlereagh St	Upper	26	0	Yes	
	Lower	39	0	Yes	

### Real Time Noise Analysis Results Comments:

1. Between 1 and 17 August, repeated exceedances were observed at the 25A Hickson Road location. Noise monitoring was undertaken at 25A Hickson Rd to quantify the façade loss of the building. Monitoring was undertaken concurrently at locations both within and outside the building with the Independent Acoustic Advisor in attendance. The correction factor for this receiver was revised in consultation with the project independent acoustic advisor. As a result, this correction was applied to previous real-time noise monitoring data and demonstrated compliance with condition E1.1.
2. 243 Miller Street displayed exceedances on 1,3,6 and 7 August 2018, during these time periods the logger was programmed to assume that high impact works were constantly occurring and a noise penalty was applied. A review of works was undertaken and where high noise impacts were not being undertaken the penalty was removed. When this correction was made all periods were compliant with E1.1.
3. An exceedance was recorded outside of standard hours on Saturday. No TSE works were occurring at the time of the exceedance and therefore it is assumed that noise was being generated from a non-TSE source.

Note: On 1 August, the noise logger located at the Radisson Hotel was moved to 60 Castlereagh Street.

Table 5: Real-Time Vibration Monitoring Data

Day	22 Clarke St	10 to 12 Clarke St	65 Berry St	Castlereagh Boutique Hotel	Radisson Hotel	211-217 Castlereagh St	50 Martin Pl	25A Hickson Rd	243 Miller St	60 Castlereagh St
1/08/2018	0.46	0.46	0.27	2.43	4.78	0.14	0.22	0.23	11	0.8
2/08/2018	0.76	0.51	0.53	2.3	-	0.19	0.31	0.13	2.21	0.98
3/08/2018	0.54	0.59	0.4	1.84	-	0.19	0.22	0.11	1.42	0.51
4/08/2018	0.35	0.3	0.13	1.3	-	0.13	0.21	0.11	1.47	2.46
5/08/2018	0.38	0.22	0.29	0.19	-	0.11	0.27	0.28	2.14	0.28
6/08/2018	0.78	0.61	0.29	3.11	-	0.19	0.22	0.08	1.29	0.87
7/08/2018	0.51	0.9	0.3	1.49	-	0.33	0.22	0.2	2.93	0.93
8/08/2018	0.56	3.94	0.35	1.05	-	0.18	0.22	0.13	2.03	0.46
9/08/2018	0.35	0.54	0.27	2.24	-	0.22	0.22	0.11	6.74	0.57
10/08/2018	1.27	0.46	1.07	1.19	-	0.16	0.22	0.28	1.42	0.51
11/08/2018	0.54	0.61	0.22	1.16	-	0.12	0.42	0.18	6.39	0.49
12/08/2018	0.27	0.6	0.16	0.3	-	0.15	0.49	0.15	0.43	0.67
13/08/2018	0.54	0.98	0.88	1.7	-	0.17	0.22	0.15	0.74	0.64
14/08/2018	0.61	0.59	0.24	9.3	-	0.15	0.22	0.13	4.17	0.36
15/08/2018	0.49	0.49	0.76	2.11	-	0.17	0.22	0.3	1.02	0.9
16/08/2018	0.35	0.51	0.22	2.56	-	0.12	0.25	0.11	1.05	0.81
17/08/2018	0.35	0.79	0.77	1.19	-	0.38	0.22	0.21	0.21	0.98
18/08/2018	0.54	0.49	0.16	0.78	-	0.12	0.26	0.11	0.67	0.95
19/08/2018	0.41	0.22	0.11	0.46	-	0.08	0.21	0.11	0.7	0.23
20/08/2018	0.24	0.59	1.5	1.57	-	0.13	0.22	0.13	6.18	1.41
21/08/2018	0.62	0.54	0.93	0.92	-	0.16	0.22	0.11	0.54	0.72
22/08/2018	0.81	0.31	1.23	2.7	-	0.25	0.24	0.25	1.23	1.16
23/08/2018	0.49	0.36	1.48	3.63	-	0.2	0.53	0.15	1.1	0.57
24/08/2018	0.6	0.3	0.3	1.27	-	0.18	0.22	0.13	1.39	0.81
25/08/2018	0.43	0.22	0.44	1.01	-	-	0.27	0.18	0.5	0.9
26/08/2018	0.65	0.11	0.16	1.39	-	-	0.2	0.08	0.2	0.21
27/08/2018	0.49	0.22	0.33	2.54	-	-	0.24	0.13	0.91	0.87
28/08/2018	0.51	0.3	0.33	1.81	-	0.08	0.23	0.11	3.65	0.68
29/08/2018	0.49	0.61	0.44	1.27	-	0.37	0.23	0.16	0.46	0.82
30/08/2018	0.49	1.28	0.78	0.87	-	0.23	0.37	0.11	0.61	1.18
31/08/2018	0.43	4.02	0.74	3.08	-	0.22	0.39	0.11	0.95	1.44
<b>Criteria</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>7.5</b>	<b>7.5</b>	<b>7.5</b>	<b>7.5</b>	<b>25</b>	<b>7.5</b>	<b>25</b>

## Real-Time Vibration Results Comments:

1. On 14 August 2018 one very short exceedance was observed at Castlereagh Boutique Hotel. Given the short duration, this is unlikely to be due to construction activity. This exceedance was likely caused by activity close to the transducer.
2. The vibration screening level of 7.5mm/s was exceeded on 5 occasions on 1st August 2018 at 243 Miller Street.

A review confirms 5 events above 7.5mm/s, with levels ranging from 8.0 to 11.0mm/s. It has been confirmed that a hammer was working on-site at the time of the exceedance. In assessing compliance with the 7.5mm/s, the following is applicable:

- The location of the geophone is approx. 1m from the boundary.
- The shortest distance between the works and geophone is approx. 4m.
- Vibration intensive works are from hammering, using a hammer approx. 1.65T.
- The main house is located at least 10m from these works and at such a distance, the vibration levels would be well below 7.5mm/s.

It is therefore considered that an exceedance of criteria at the monitoring location does not translate to an exceedance at the location of the mail.

Note: On 1 August, the vibration logger located at the Radisson Hotel was moved to 60 Castlereagh Street.