



Environmental Monitoring Data

Project:	Sydney Metro City & Southwest– TSE Works
Document Number:	SMCSWTSE-JCG-TPW-EM-RPT-097237
Reporting Period:	January 2018
Date Published:	12 February 2018

Document Approval

Rev.	Date	Prepared by	Reviewed by	Approved by	Remarks
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1. 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

2. 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:

<http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=124554&SYSUID=1&LICID=20971>

3. Discharge Water Monitoring

Testing and discharge was not undertaken during this reporting period.

4. Noise and Vibration Monitoring

Noise and vibration monitoring was undertaken during this reporting period. Table 1 contains the vibration monitoring results, and table 2 contains the noise monitoring results.

Table 1: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Parameter	Measured Value (mm/s)	Goals / Targets (mm/s)	Comments
CN_01, Clarke Street	04/01/2018 14:50	Attended	Y	mm/s	0.725	0.5	Respite applied. Compliant.
CN_01, Clarke Street	04/01/2018 15:14	Attended	Y	mm/s	0.55	0.5	Respite applied. Compliant.
CN_04, Pacific Highway	16/01/2018 15:50	Attended	Y	mm/s	0.495	0.5	Compliant.
CN_04, Pacific Highway	16/01/2018 16:20	Attended	Y	mm/s	0.21	0.5	Compliant
CDS_03, Nelson Street	16/01/2018 12:43	Attended	Y	mm/s	0.079	0.5	Compliant
CDS_03, Nelson Street (footpath)	16/01/2018 14:55	Attended	Y	mm/s	0.709	0.4	Respite applied. Compliant.
CDS_03, Nelson Street	23/01/2018 14:26	Attended	Y	mm/s	2.65	5	Compliant

Table 2: 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_02, Castlereagh Street	02/01/2018 22:04	Attended	Y	Laeq(15min)	63.8	71	Compliant
MP_02, Castlereagh Street	02/01/2018 22:27	Attended	Y	Laeq(15min)	65.4	71	Compliant
MP_02, Castlereagh Street	03/01/2018 00:01	Attended	Y	Laeq(15min)	59.2	70	Compliant
MP_01, Castlereagh Street	03/01/2018 21:38	Attended	Y	Laeq(15min)	64.3	78	Compliant
MP_01, Castlereagh Street	03/01/2018 22:57	Attended	Y	Laeq(15min)	67.1	78	Compliant
MP_02, Castlereagh Street	04/01/2018 22:12	Attended	Y	Laeq(15min)	65.8	71	Compliant
MP_01, Castlereagh Street	04/01/2018 23:19	Attended	Y	Laeq(15min)	65.4	78	Compliant
MP_01, Castlereagh Street	05/01/2018 00:00	Attended	Y	Laeq(15min)	63.1	60	Non-TSE works dominant. TSE works were compliant.
MP_02, Castlereagh Street	05/01/2018 00:51	Attended	Y	Laeq(15min)	68.0	70	Compliant
PS_03, Castlereagh Street	05/01/2018 23:16	Attended	Y	Laeq(15min)	72.5	72	Non-TSE works dominant. TSE works were 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
PS_02, Castlereagh Street	05/01/2018 23:37	Attended	Y	Laeq(15min)	70.3	60	TSE works inaudible. Compliant.
PS_03, Castlereagh Street	06/01/2018 01:30	Attended	Y	Laeq(15min)	64.3	60	Non-TSE works dominant. TSE works compliant.
PS_03, Castlereagh Street	06/01/2018 02:23	Attended	Y	Laeq(15min)	63.5	60	TSE works inaudible. Compliant.
MP_02, Castlereagh Street	08/01/2018 15:45	Attended	Y	Laeq(15min)	72.5	82	Compliant.
MP_03, O'Connell Street	08/01/2018 16:20	Attended	Y	Laeq(15min)	75.4	91	Compliant.
BN_03, High Street	16/01/2018 21:20	Attended	Y	Laeq(15min)	51.7	55	Compliant.
BN_02, Munn Street	16/01/2018 21:45	Attended	Y	Laeq(15min)	58.2	65	Compliant.
BN_02, Munn Street	16/01/2018 22:05	Attended	Y	Laeq(15min)	54.8	59	Compliant.
BN_01, Hickson Road	16/01/2018 22:37	Attended	Y	Laeq(15min)	57.6	77	Compliant.
BN_02, Argyle Place	16/01/2018 23:08	Attended	Y	Laeq(15min)	66.1	75	Compliant.
BN_03, Kent Street	16/01/2018 23:40	Attended	Y	Laeq(15min)	58.1	55	TSE works inaudible. Non-TSE works dominant. 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
BN_03, High Street	17/01/2018 00:10	Attended	Y	Laeq(15min)	53.0	45	Non-TSE works dominant. TSE works compliant.
BN_02, Munn Street	17/01/2018 00:38	Attended	Y	Laeq(15min)	54.8	50	Non-TSE works dominant. TSE works compliant.
CDS_01, Nelson Street	22/01/2018 21:45	Attended	Y	Laeq(15min)	59.8	78	Compliant.
CDS_01, Nelson Street	22/01/2018 22:08	Attended	Y	Laeq(15min)	62.3	78	Compliant.
PS_05, Pitt Street	22/01/2018 23:28	Attended	Y	Laeq(15min)	71.8	70	Non-TSE works dominant. TSE works compliant.
PS_01, Pitt Street	22/01/2018 23:45	Attended	Y	Laeq(15min)	69.2	72	Compliant.
PS_05, Pitt street	23/01/2018 00:15	Attended	Y	Laeq(15min)	71.3	70	Non-TSE works dominant. TSE works compliant.
PS_01, Pitt Street	23/01/2018 01:15	Attended	Y	Laeq(15min)	64.6	58	Non-TSE works dominant. TSE works compliant.
CDS_02, Pacific Highway	23/01/2018 02:37	Attended	Y	Laeq(15min)	67.1	70	Compliant.
MP_03, Bligh Street	31/01/2018 16:00	Attended	Y	Laeq(15min)	56.9	60	Compliant.
BN_03, High Street	31/01/2018 20:55	Attended	Y	Laeq(15min)	58.7	54	Non-TSE works dominant. 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
BN_02, Munn Street	31/01/2018 21:40	Attended	Y	Laeq(15min)	56.0	65	Compliant.
BN_02, Munn Street	31/01/2018 22:15	Attended	Y	Laeq(15min)	53.8	65	Compliant.
BN_03, High Street	31/01/2018 22:30	Attended	Y	Laeq(15min)	59.8	56	Non-TSE works dominant. TSE works compliant.
CN_02, Hume Street	31/01/2018 23:40	Attended	Y	Laeq(15min)	58.1	83	Compliant.