



Environmental Monitoring Data

Project:	Sydney Metro City & Southwest– TSE Works
Document Number:	SMCSWTSE-JCG-TPW-EM-RPT-097492
Reporting Period:	March 2021
Date Published:	07 April 2021

Document Approval

Rev.	Date	Prepared by	Reviewed by	Approved by	Remarks
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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/ViewPOEOLicence.aspx?DOCID=191415&SYSUID=1&LICID=20971>

Discharge Water Monitoring

Testing and discharge was undertaken during this reporting period. Table 1 contains the discharge monitoring results. Note that the Marrickville Water Treatment Plant was decommissioned as of 1st March 2021 and therefore no data is available for this reporting period.

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

There were no real-time monitors active during the March 2021 reporting period.

Table 1: Discharge Water Monitoring Data.

Identifier ¹	Monitoring Dates	Parameter/ Criteria/ Measured Value						Oil & Grease (Non-Visible)	Comments
		pH (6.5 – 8.5)			Turbidity (<35 NTU)				
		Min	Max	Average	Min	Max	Average		
BN_03	01/03/21 – 31/03/21	6.7	7.8	7.4	0.1	27.5	1.4	Nil	Compliant

¹ 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	Monitoring Type	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant
18-22 Lilian Fowler Place, Marrickville, MDS_01	01/03/2021	Attended	0.7	0.8	Yes	3.6	25	Yes

Table 3: Noise Monitoring Data

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
MDS_02, 322 Edgeware Road, Newtown	08/03/2021	Attended	LAeq (15 min)	66.1	57	TSE Works Compliant – Traffic dominant noise source
MDS_02, 322 Edgeware Road, Newtown	08/03/2021	Attended	LAeq (15 min)	64.8	58	TSE Works Compliant – Traffic dominant noise source
MDS_02, 322 Edgeware Road, Newtown	09/03/2021	Attended	LAeq (15 min)	64.6	57	TSE Works Compliant – Traffic dominant noise source
MDS_01, 65 Edinburgh Road, Marrickville	09/03/2021	Attended	LAeq (15 min)	63.1	48	TSE Works Compliant – Traffic dominant noise source
MDS_01, 65 Edinburgh Road, Marrickville	09/03/2021	Attended	LAeq (15 min)	55.0	45.5	TSE Works Compliant – Traffic dominant noise source
MDS_02, 322 Edgeware Road, Newtown	09/03/2021	Attended	LAeq (15 min)	59.6	50	TSE Works Compliant – Traffic dominant noise source
MDS_01, 17 Shirlow Street, Marrickville	27/03/2021	Attended	LAeq (15 min)	54.7	55	TSE Works Compliant – Traffic dominant noise source

Real Time Noise Results Comments:

There were no real time noise monitors operating during the month of March 2021. All real time monitors were decommissioned or handed over to follow on contractors in December 2020.

Real Time Vibration Results Comments:

There were no real time vibration monitors operating during the month of March 2021. All real time monitors were decommissioned or handed over to follow on contractors in December 2020.