



# 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	12/02/2021	D. Windnagel	S. Anstee	S. Anstee	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/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.

### **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 January reporting period.

Table 1: Discharge Water Monitoring Data.

Identifier <sup>1</sup>	Monitoring Dates	Parameter/ Criteria/ Measured Value						Oil & Grease (None Visible)	Comments
		pH (6.5 – 8.5)			Turbidity (<35 NTU)				
		Min	Max	Average	Min	Max	Average		
MD_05	11/01/21 <sup>2</sup> – 31/01/21	6.6	8.4	7.1	0.2	32.9	11.3	Nil	Compliant
BN_03	11/01/21 – 31/01/21	7.1	8.1	7.3	0.32	7.48	0.73	Nil	Compliant

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

<sup>2</sup> WTP not operating during site shutdown period. No water was discharged offsite during this period.

Table 2: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s <sup>1.75</sup> )	VDV Target (m/s <sup>1.75</sup> )	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant
No vibration data <sup>1</sup>								

<sup>1</sup> No vibration monitoring was undertaken in the month of January 2021.

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
BN_02, 14 High St, Barangaroo	31/01/2021	Attended	LAeq (15 min)	50.5	52	TSE Works Compliant

**Real Time Noise Results Comments:**

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

**Real Time Vibration Results Comments:**

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