

M7-M12 Integration project
Environment Protection Licence –
Environmental Monitoring Data

September 2023



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Contents

1	Project summary	1
2	Environmental Protection Licence and Reporting Requirements	3
3	Noise and vibration monitoring	4
3.1	Noise monitoring	4
3.2	Vibration monitoring	4
4	Discharge Water Quality Monitoring	4

Tables

Table 4-1	Noise monitoring data	5
Table 4-2	Vibration monitoring data	6
Table 4-3	Sediment basin discharge monitoring data for September 2023	7

Figures

Figure 1-1	M7-M12 Integration project.....	2
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1 Project summary

The M7 Motorway (Modification 6 Widening; SSI-663-Mod-6) (M7 Widening) and the M12 East package of the M12 Motorway project (SSI 9364) will be delivered together under what is referred to as the M7-M12 Integration project (the project) (refer to Figure 1-1) by John Holland.

The M12 Motorway extends between the M7 Motorway at Cecil Hills and The Northern Road at Luddenham, over a distance of about 16 km. It will be delivered in multiple packages including the M12 West package, M12 Central package and M12 East package (this package is part of the M7-M12 Integration project). The M12 East package involves two components of work:

- Connecting Elizabeth Drive to the M12 Motorway and the upgrade of approximately two kilometres of Elizabeth Drive from east of Duff Road to 300 metres east of the M7 Motorway
- Providing a grade separated motorway to motorway connection between the M7 Motorway and M12 Motorway.

The M7 Widening project will enable the construction and operation of an additional lane in both directions within the existing median of the Westlink M7 for approximately 26 kilometres (km). Works will occur from about 140 metres (m) south of the Kurrajong Road overhead bridge at Prestons (southern end) to the Richmond Road interchange at Oakhurst/Glendenning (northern end), excluding widening through the Westlink M7/M4 Motorway (Light Horse) Interchange.

2 Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21829) from the NSW Environment Protection Authority for the project on 2 August 2023. The licence is for construction works relating to road construction 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 Works. 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: epa.nsw.gov.au

3 Noise and vibration monitoring

3.1 Noise monitoring

Noise monitoring was undertaken during the reporting period and all works were deemed compliant as the noise sources were predominantly dominated by background noise sources e.g., local traffic. Table 4-1 contains a summary of the noise monitoring results.

3.2 Vibration monitoring

No Vibration monitoring was undertaken during the reporting period as no vibration intensive works were undertaken.

4 Discharge Water Quality Monitoring

No offsite discharge occurred during September 2023.

Table 4-1 Noise monitoring data

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Parameter	Measured Value	Goals / Targets dB(A)	Project Compliance	Comments/ Field Observations
33 Isabel Street, Cecil Park (NC02)	15/09/2023	Attended	LAeq 15 min	60.9	66	Compliant	Traffic from Elizabeth Drive and background noise dominant sources throughout the monitoring period and influencing ambient levels. M7-M12 works were limited to concrete block install and plant operation. M7-M12 works were audible for periodic periods during the monitoring. M7-M12 works compliant.
2055 Elizabeth Drive (NCA04)	22/09/2023	Attended	LAeq 15 min	68.5	78	Compliant	Traffic from Elizabeth Drive and background noise dominant sources throughout the monitoring period. M7-M12 works involved use of vacuum trucks. M7-M12 works compliant.
33 Isabel Street, Cecil Park (NC02)	22/09/2023	Attended	LAeq 15 min	60.5	66	Compliant	Traffic from Elizabeth Drive and background noise dominant sources throughout the monitoring period. M7-M12 works were audible for periods during the monitoring period. M7-M12 works compliant.
28 Cecil Road, Cecil Park (NCA04)	22/09/2023	Attended	LAeq 15 min	59.1	64	Compliant	M7-M12 tree removal works were audible throughout the monitoring with chainsaws the dominant noise source. Traffic from Elizabeth Drive and wind in the trees was present during the monitoring. M7-M12 works compliant.
111 Walgrove Road, Cecil Park (NCA 01)	27/09/2023	Attended	LAeq 15 min	38.7	45	Compliant	M7-M12 potholing works were inaudible throughout the monitoring with traffic from the M7 the dominant noise source. M7-M12 works compliant.
2073 Elizabeth Drive, Cecil Park (NCA04)	27/09/2023	Attended	LAeq 15 min	66.1	69	Compliant	M7-M12 potholing works were inaudible. Traffic from Elizabeth Drive and background noise dominant sources throughout the monitoring period. M7-M12 works compliant.
2073 Elizabeth Drive, Cecil Park (NCA04)	28/09/2023	Attended	LAeq 15 min	64.2	65	Compliant	M7-M12 geotechnical and asphaltting works audible throughout the monitoring with asphaltting works the dominant noise source. Traffic from Elizabeth Drive Road present during the monitoring. M7-M12 works compliant.

Note:

1. LAeq (15min) - The A-weighted equivalent continuous (energy average) A-weighted sound pressure level over a 15-minute period.
2. dBA - Decibels using the A-weighted scale measured according to the frequency of the human ear.

Table 4-2 Vibration monitoring data

Monitoring Location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant	Comments/ Field Observations
N/A									

Note:

1. VDV – Vibration Dose Value
2. PPV – Peak Particle Velocity

Table 4-3 Sediment basin discharge monitoring data for September 2023

Location	Date	Analyte	Units	Limit	Result	Comments
N/A						