

M7- M12 Integration Project Environment Protection Licence – Environmental Monitoring Data Report

March 2025



Document Control

Date	09 April 2025
Document No.	M7M12UDC-JHGRP-M7A-EN-RPT-000022
Title	Environment Protection Licence – Environmental Monitoring Data Report March 2025

Document History and Status

Rev	Rev Date	Description	Author	Checked	Reviewed	Approved
1	09/04/2025	For publication	T. Lue	J. Paul	R. Muir	For publication

Contents

- 1 Project summary..... 2
- 2 Environmental Protection Licence and Reporting Requirements 4
- 3 Noise and vibration monitoring..... 5
 - 3.1 Noise monitoring 5
 - 3.2 Vibration monitoring 0
- 4 Discharge Water Quality Monitoring..... 2

Tables

- Figure 1-1 M7-M12 Integration Project..... 3
- Table 3-1 Noise monitoring data 6
- Table 3-2 Vibration monitoring data..... 1
- Table 4-1 Sediment basin discharge monitoring data for March 2025 3

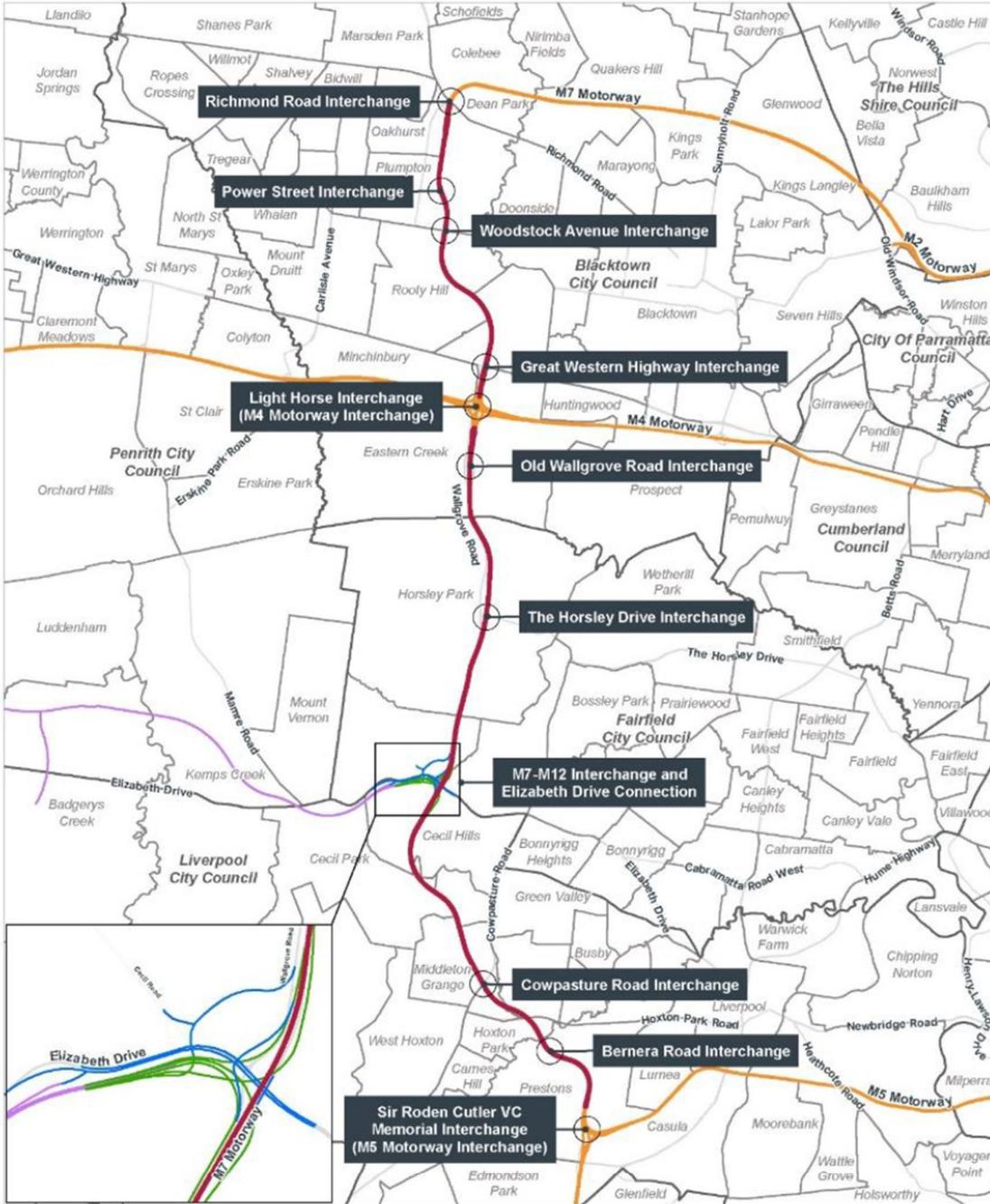
1 Project summary

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.



M7-M12 INTEGRATION PROJECT
LOCATION OVERVIEW



- Legend**
- M7 Widening
 - M7-M12 Interchange
 - Elizabeth Drive Connection
 - M12 Motorway
 - Existing motorway
 - Interchange
 - LGA boundary
 - Suburb boundary

Copyright. Copyright is reserved in relation to the data herein and/or information contained in this document and is not to be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the copyright owner. All rights reserved. © Department of Customer Service 2020. Digital Assets and/or Digital Topographic Data used.

The names of Councils, Companies, Authorities, and Australian names are available from <https://www.copyright.com.au/> (Copyright Clearance Center).

Neither AECOM Australia Pty Ltd nor AECOM or the Department of Customer Service make any representation or warranty of any kind, about the accuracy, reliability, completeness or suitability of this information for the purposes intended or for any other purpose, and the user of this information shall be responsible for its use. The user shall be responsible for its use. The user shall be responsible for its use. The user shall be responsible for its use.

Source: Imagery © Google Maps 2020

Figure 1-1 M7-M12 Integration Project

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. The licence is for 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 the March 2025 monitoring period 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 in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria, monitoring was predominantly dominated by background noise sources such as local traffic and are detailed in Table 3-1.

Table 3-1 Noise monitoring data

Location Description	Monitoring date	Monitoring period	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
28 Cecil Road, Cecil Park	12/03/2025	Night	M12_NCA35	Attended	LAeq (15 min)	58.9	54	JH Works Compliant	Dominant noise source was traffic on Cecil Road. JHG works were recorded as being below the PNL. JHG M7M12 Project works compliant.
21 Murwillumbah Avenue, Hoxton Park	12/03/2025	Night	M7_NCA08	Attended	LAeq (15 min)	51.5	59	JH Works Compliant	Dominant noise source was JHG road barrier installation. JHG post installation works were below the PNL. JHG M7M12 Project works compliant.
31 Pegasus Avenue, Hinchinbrook	12/03/2025	Night	M7_NCA09	Attended	LAeq (15 min)	57.1	55	JH Works Compliant	Dominant noise source was traffic on Hoxton Park Road. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
12, 14 Derby St, Rooty Hill	19/03/2025	Evening	M7_NCA25	Attended	LAeq (15 min)	54.4	50	JH Works Compliant	Dominant noise source was local road traffic through Derby St. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
12, 14 Derby St, Rooty Hill	19/03/2025	Night	M7_NCA25	Attended	LAeq (15 min)	59.7	50	JH Works Compliant	Dominant noise source local road traffic through Derby St. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
132 Station St, Rooty Hill	19/03/2025	Night	M7_NCA26	Attended	LAeq (15 min)	61.2	56	JH Works Compliant	Dominant noise source from M7 offramp traffic to westbound Woodstock Ave. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
13 Darice Place, Plumpton	20/03/2025	Night	M7_NCA28	Attended	LAeq (15 min)	63.4	57	JH Works Compliant	Dominant noise source from M7 offramp traffic to westbound Woodstock Ave. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
9 Burgundy Close, Cecil Hills	20/03/2025	Day	TfNSW_NCA16b	Attended	LAeq (15 min)	53.6	64	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. JHG works were compliant with PNL. JHG M7M12 Project works compliant.

Location Description	Monitoring date	Monitoring period	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
21 Isabel Street, Cecil Hills	21/03/2025	Night	TfNSW_NCA16b	Attended	LAeq (15 min)	56.5	71	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
1111-1114 Elizabeth Drive, Cecil Park	21/03/2025	Night	NCA_35	Attended	LAeq (15 min)	57.4	72	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. JHG works were inaudible. JHG M7M12 Project works compliant.
4 Burgundy Close, Cecil Hills	21/03/2025	Night	TfNSW_NCA16b	Attended	LAeq (15 min)	56.5	72	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
132 Station St, Rooty Hill	24/03/2025	Night	M7_NCA26	Attended	LAeq (15 min)	53.7	49	JH Works Compliant	Dominant noise source was traffic near Woodstock Ave. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
26 Derby St, Rooty Hill	24/03/2025	Night	M7_NCA25	Attended	LAeq (15 min)	53	43	JH Works Compliant	Dominant noise source was local road traffic through Derby St. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
26 Polonia Ave, Plumpton	24/03/2025	Night	M7_NCA28	Attended	LAeq (15 min)	49.7	54	JH Works Compliant	Dominant noise source was traffic on M7 and Woodstock Ave. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
3 Burgundy close, Cecil Hills	25/03/2025	Night	NCA_16b	Attended	LAeq (15 min)	49.3	59	JH Works Compliant	Dominant noise source was traffic on the M7 and ED. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
9-11 Pavese Place, Hinchinbrook	25/03/2025	Night	M7_NCA07	Attended	LAeq (15 min)	49.5	55	JH Works Compliant	Traffic from the M7 and other nearby roads was the dominant noise source. JHG works were compliant with PNL. JHG M7M12 Project works are 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.

3.2 Vibration monitoring

Vibration monitoring was undertaken during the reporting period in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria and are detailed in Table 3-2.

Table 3-2 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
9 Burgundy Close, Cecil Hills	20/03/2025	Attended	0.07	0.4	Compliant	0.11	25	Compliant	Works were monitored and found to be compliant with the associated criteria

Note:

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

4 Discharge Water Quality Monitoring

Offsite discharge occurred during March 2025 from sediment basins across the Project.

All discharges were compliant with the requirements of the Project EPL (#21829) and are outlined in Table 4-1.

Table 4-1 Sediment basin discharge monitoring data for March 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB03	07/03/2025	pH	pH	6.5-8.5	7.47	Compliant with discharge criteria.
		Turbidity	NTU	50	47.6	
		Oil and grease	Visible	Not visible	Not visible	
SB08	14/03/2025	pH	pH	6.5-8.5	7.92	Compliant with discharge criteria.
		Turbidity	NTU	50	25.4	
		Oil and grease	Visible	Not visible	Not visible	
SB10	18/03/2025	pH	pH	6.5-8.5	8.32	Compliant with discharge criteria.
		Turbidity	NTU	50	36.6	
		Oil and grease	Visible	Not visible	Not visible	
SB02	26/03/2025	pH	pH	6.5-8.5	7.6	Compliant with discharge criteria.
		Turbidity	NTU	50	44.7	
		Oil and grease	Visible	Not visible	Not visible	
SB13	26/03/2025	pH	pH	6.5-8.5	7.89	Compliant with discharge criteria.
		Turbidity	NTU	50	37.2	
		Oil and grease	Visible	Not visible	Not visible	
SB06	26/03/2025	pH	pH	6.5-8.5	8.49	Compliant with discharge criteria.
		Turbidity	NTU	50	20.4	
		Oil and grease	Visible	Not visible	Not visible	
SB07	26/03/2025	pH	pH	6.5-8.5	8.47	Compliant with discharge criteria.
		Turbidity	NTU	50	46.3	
		Oil and grease	Visible	Not visible	Not visible	

Environment Protection Licence Environment Monitoring Data

SB01	26/03/2025	pH	pH	6.5-8.5	7.99	Compliant with discharge criteria.
		Turbidity	NTU	50	43.7	
		Oil and grease	Visible	Not visible	Not visible	
SB01	31/03/2025	pH	pH	6.5-8.5	8.16	Compliant with discharge criteria.
		Turbidity	NTU	50	44.4	
		Oil and grease	Visible	Not visible	Not visible	