

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

January 2025



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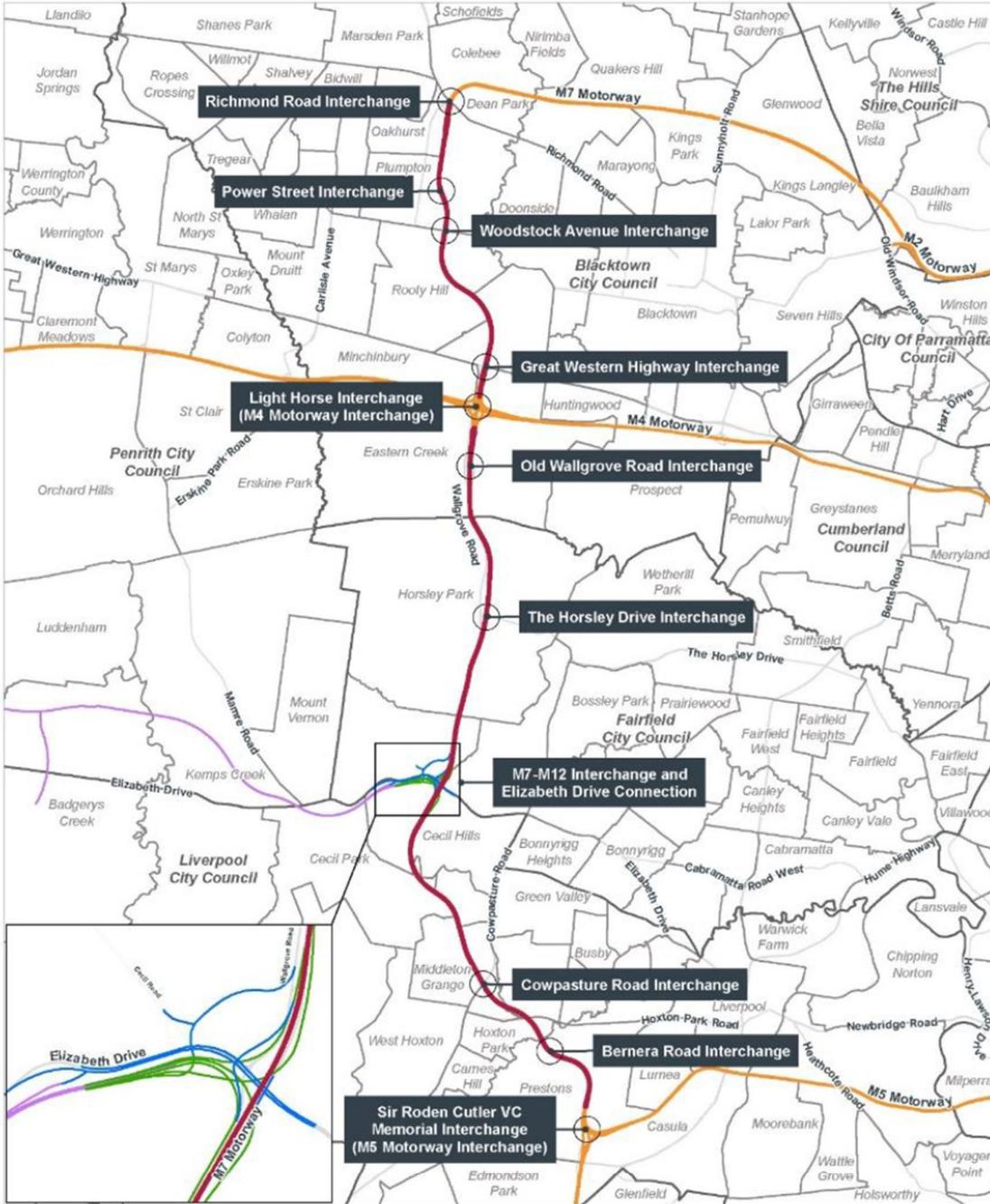
1 Project summary

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.



M7-M12 INTEGRATION PROJECT
LOCATION OVERVIEW



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

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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 January 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
20 Mavis St, Rooty Hill	16/01/2025	Night	M7_NCA_22	Attended	LAeq (15 min)	47.1	54	Compliant	Dominant noise source was traffic from M7. Works were inaudible during the monitoring period. JHG Works compliant.
34 Angledool Ave, Hinchinbrook	16/01/2025	Night	M7_NCA_07	Attended	LAeq (15 min)	62.9	47	Compliant	The dominant noise source was traffic on Cowpasture Road and the M7. Works were compliant with the PNL. JHG works compliant.
9 Pavese Place, Hinchinbrook	21/01/2025	Night	M7_NCA_07	Attended	LAeq (15 min)	47.2	43	Compliant	Dominant noise source traffic from Wilson Rd. Works were inaudible during the monitoring period. JHG works compliant.
33 Isabel Street, Cecil Hills	21/01/2025	Night	TfNSW_NCA_16b	Attended	LAeq (15 min)	47.2	43	Compliant	Dominant noise source was background noise (crickets, cicadas and bats) and traffic from Elizabeth Drive. Works were inaudible during the monitoring period. JHG works compliant
28 Cecil Road, Cecil Park	21/01/2025	Night	TfNSW_NCA_35	Attended	LAeq (15 min)	65.7	72	Compliant	Dominant noise source was the works at Cecil Road. Works were compliant with the PNL. JHG works compliant.
1111-1141 Elizabeth Drive, Cecil Park	21/01/2025	Night	TfNSW_NCA_35	Attended	LAeq (15 min)	53.8	47	Compliant	Dominant noise source was traffic from Elizabeth Drive, Wallgrove Rd and M7. Works were inaudible during the monitoring period. JHG works compliant.
14 Woodley Crescent, Glendenning	22/01/2025	Day	M7_NCA_31	Attended	LAeq (15 min)	59.3	76	Compliant	Dominant noise source M7 Traffic Works were compliant with the PNL. JHG works compliant.
17 Toulouse Street, Cecil Hills	23/01/2025	Day	TfNSW_NCA_16	Attended	LAeq (15 min)	59	54	Compliant	Dominant noise source was a helicopter flying nearby and cicadas. Works were compliant with the PNL. JHG works compliant.
11 Rene Place, Cecil Hills	31/01/2025	Day	TfNSW_NCA_16b	Attended	LAeq (15 min)	45.9	71	Compliant	Dominant noise source was background noise (birds). Works were compliant with the PNL. JH 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.

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
14 Woodley Crescent, Glendenning	22/01/2025	Attended	0.16	0.4	Compliant	0.25	25	Compliant	Works were monitored and found to be compliant with associated criteria
11 Rene Place, Cecil Hills	31/01/2025	Attended	0.06	0.4	Compliant	0.09	25	Compliant	Works were monitored and found to be compliant with associated criteria

Note:

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

4 Discharge Water Quality Monitoring

Offsite discharge occurred during January 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 January 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB08	10/01/2025	pH	pH	6.5-8.5	7.31	Compliant with discharge criteria.
		Turbidity	NTU	50	45.2	
		Oil and grease	Visible	Not visible	Not visible	
SB02	13/01/2025	pH	pH	6.5-8.5	7.51	Compliant with discharge criteria.
		Turbidity	NTU	50	48.7	
		Oil and grease	Visible	Not visible	Not visible	
SB08	14/01/2025	pH	pH	6.5-8.5	7.43	Compliant with discharge criteria.
		Turbidity	NTU	50	22.3	
		Oil and grease	Visible	Not visible	Not visible	
SB10	14/01/2025	pH	pH	6.5-8.5	7.87	Compliant with discharge criteria.
		Turbidity	NTU	50	46.7	
		Oil and grease	Visible	Not visible	Not visible	
SB03	14/01/2025	pH	pH	6.5-8.5	8.3	Compliant with discharge criteria.
		Turbidity	NTU	50	38.4	
		Oil and grease	Visible	Not visible	Not visible	
SB03	17/01/2025	pH	pH	6.5-8.5	7.87	Compliant with discharge criteria.
		Turbidity	NTU	50	46.9	
		Oil and grease	Visible	Not visible	Not visible	
SB08	17/01/2025	pH	pH	6.5-8.5	6.98	Compliant with discharge criteria.

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		Turbidity	NTU	50	14	
		Oil and grease	Visible	Not visible	Not visible	
SB03	17/01/2025	pH	pH	6.5-8.5	7.44	Compliant with discharge criteria.
		Turbidity	NTU	50	32.2	
		Oil and grease	Visible	Not visible	Not visible	
SB10	17/01/2025	pH	pH	6.5-8.5	7.90	Compliant with discharge criteria.
		Turbidity	NTU	50	26.2	
		Oil and grease	Visible	Not visible	Not visible	
SB01	20/01/2025	pH	pH	6.5-8.5	7.8	Compliant with discharge criteria.
		Turbidity	NTU	50	46.7	
		Oil and grease	Visible	Not visible	Not visible	
SB08	20/01/2025	pH	pH	6.5-8.5	7.85	Compliant with discharge criteria.
		Turbidity	NTU	50	38.5	
		Oil and grease	Visible	Not visible	Not visible	
SB08	22/01/2025	pH	pH	6.5-8.5	8.14	Compliant with discharge criteria.
		Turbidity	NTU	50	30.1	
		Oil and grease	Visible	Not visible	Not visible	
SB15	29/01/2025	pH	pH	6.5-8.5	7.36	Compliant with discharge criteria.
		Turbidity	NTU	50	48.4	
		Oil and grease	Visible	Not visible	Not visible	
SB03	29/01/2025	pH	pH	6.5-8.5	7.53	Compliant with discharge criteria.

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		Turbidity	NTU	50	10.6	
		Oil and grease	Visible	Not visible	Not visible	
SB02	30/01/2025	pH	pH	6.5-8.5	7.67	Compliant with discharge criteria.
		Turbidity	NTU	50	26.9	
		Oil and grease	Visible	Not visible	Not visible	