

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

April 2024



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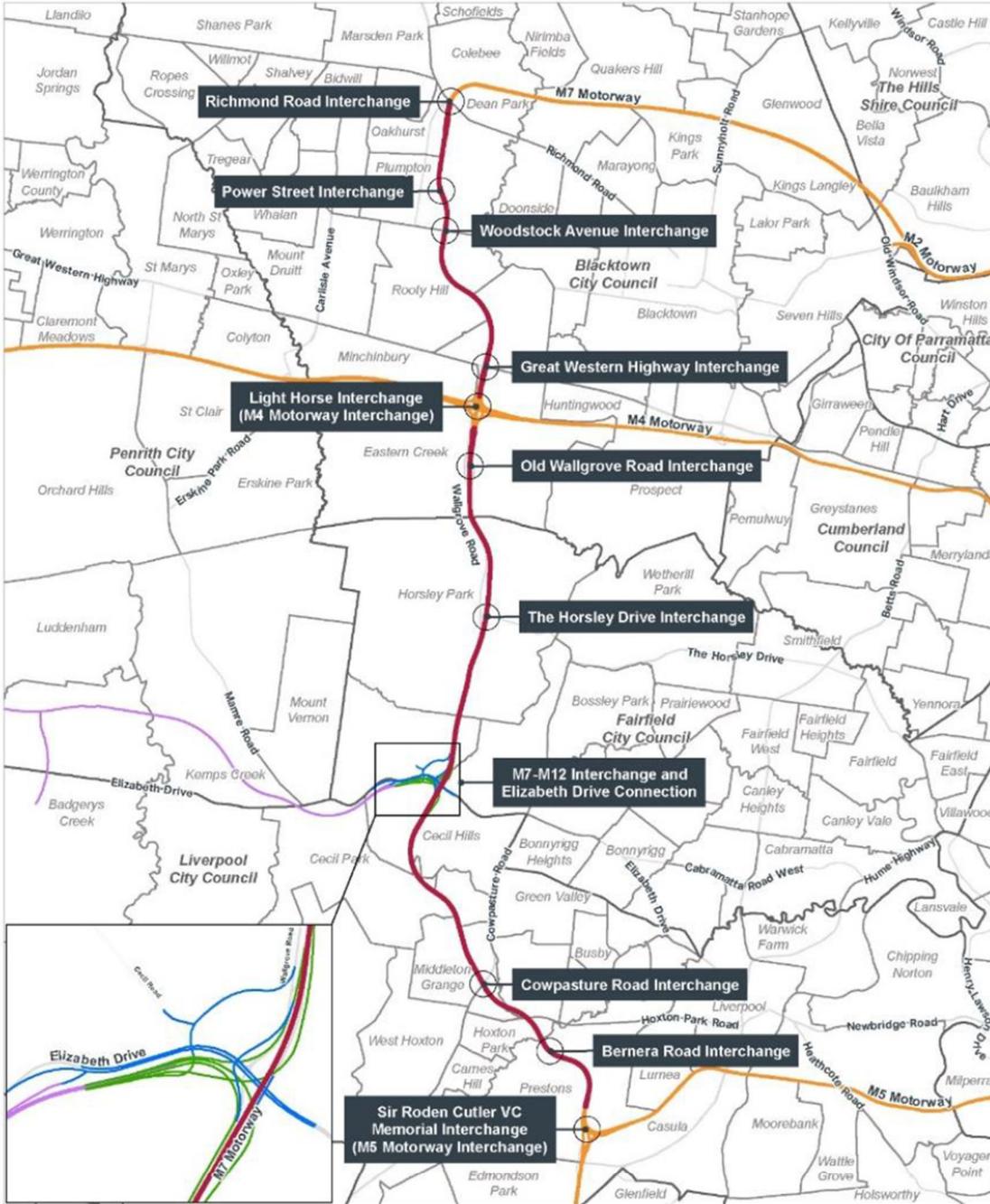
1 Project summary

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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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 April 2024 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	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
6 Wilson Road Hinchinbrook	03/04/2024	M7_NCA07	Attended	LAeq (15min)	65.8	55	Compliant	The dominant noise source was traffic on Wilson Road. Works were compliant with the PNL. JHG works compliant.
15 Darice Pl, Plumpton	03/04/2024	M7_NCA28	Attended	LAeq (15min)	63.2	57	Compliant	The dominant noise source was traffic on local road and M7. The works were compliant with the PNL. JHG works compliant.
44 Chilton Ave, Oakhurst	03/04/2024	M7_NCA30	Attended	LAeq (15min)	53.8	55	Compliant	The dominant noise source was traffic on local road and M7. The works were compliant with the PNL. JHG works compliant.
3 Alroy Crescent, Hassal Grove	04/04/2024	M7_NCA33	Attended	LAeq (15min)	39.3	43	Compliant	The dominant noise source was traffic on local road and M7. The works were compliant with the PNL. JHG works compliant.
101 Wallgrove Road, Eastern Creek	12/04/2024	M7_NCA22	Attended	LAeq (15min)	67.4	70	Compliant	The dominant noise source was traffic on the M7. The works were compliant with the PNL. JHG works compliant.
233-243 Wallgrove Road	16/04/2024	M7_NCA17	Attended	LAeq (15min)	67.9	75	Compliant	The dominant noise source was traffic on the M7. The works were compliant with the PNL. JHG works compliant.
1 Dobroyd Drive, Elizaeth Hills	19/04/2024	TfNSW_NCA35	Attended	LAeq (15min)	62	67	Compliant	The dominant noise source was traffic on the M7. The works were compliant with the PNL. JHG works compliant.
763-783 Wallgrove Road, Horsley Park	22/04/2024	M7_NCA21	Attended	LAeq (15min)	70.1	52	Compliant	The dominant noise source was traffic on the M7 on the Wallgrove Road. The works were compliant with the PNL. JHG works compliant.
727-735 Wallgrove Road, Horsley Park	22/04/2024	M7_NCA18	Attended	LAeq (15min)	68.3	52	Compliant	The dominant noise source was traffic from Wallgrove Road and noise from surrounding residents. The works were compliant with the predicted noise levels. JHG works compliant.
11 Gilpin Road, Plumpton	22/04/2024	M7_NCA28	Attended	LAeq (15min)	42.4	54	Compliant	The dominant noise source was fauna and traffic from the M7. Construction works were inaudible. JHG works compliant.
100 Wallgrove Road, Eastern Creek	22/04/2024	M7_NCA22	Attended	LAeq (15min)	66.4	75	Compliant	The dominant noise source was traffic on the M7 and Wallgrove Road. The works were compliant with the PNL. JHG works compliant.
31 Isabel Steet, Cecil Road	22/04/2024	M7_NCA16b	Attended	LAeq (15min)	52.7	50	Compliant	The dominant noise source was traffic on the M7 and Elizabeth Drive. The works were compliant with the PNL. JHG works compliant.
1111-1141 Elizabeth Drive, Cecil Park	22/04/2024	TfNSW_NCA35	Attended	LAeq (15min)	59.9	59	Compliant	The dominant noise source was traffic on the M7 and Elizabeth Drive. The works were compliant with the PNL. JHG works compliant.
1111-1141 Elizabeth Drive, Cecil Park	22/04/2024	TfNSW_NCA35	Attended	LAeq (15min)	60.6	47	Compliant	The dominant noise source was traffic on the M7 and Elizabeth Drive. The works were compliant with the PNL. JHG works compliant.
31 Isabel St, Cecil Park	22/04/2024	M12_NCA16b	Attended	LAeq (15min)	50.4	43	Compliant	The dominant noise source was traffic on the M7 and Elizabeth Drive. The works were compliant with the PNL. JHG works compliant.
33 Isabel St, Cecil Park	24/04/2024	TfNSW_NCA16b	Attended	LAeq (15min)	53.8	58	Compliant	The dominant noise source was traffic on the M7 and Elizabeth Drive. Construction works were inaudible. JHG works compliant.
28 Rene Place, Cecil Park	24/04/2024	TfNSW_NCA16b	Attended	LAeq (15min)	55.7	58	Compliant	The dominant noise source was traffic construction activities. The results recorded were below the predicted noise levels. JHG 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
Shaft 3 EDC Area	01/04/2024	Continuous	N/A	N/A	N/A	0.17	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	02/04/2024	Continuous	N/A	N/A	N/A	0.19	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	09/04/2024	Continuous	N/A	N/A	N/A	4.17	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	10/04/2024	Continuous	N/A	N/A	N/A	5.96	10	Compliant	Works were monitored and found to be compliant with associated criteria.
6 Wilson Road, Hinchinbrook (NCA 7)	03/04/2024	Attended	N/A	N/A	N/A	0.14	20	Compliant	Works were monitored and found to be compliant with associated criteria.
233- 243 Wallgrove Road, Cecil Park (NCA17)	16/04/2024	Attended	N/A	N/A	N/A	0.14	20	Compliant	Works were monitored and found to be compliant with associated criteria.
1 Dobroyd Drive, Elizabeth Hills (NCA16b)	19/04/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
1183-1185 Elizabeth Drive (NCA35)	22/04/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
1011-1041 Elizabeth Drive (NCA35)	22/04/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
97- 123 Wallgrove Road, Cecil Park (NCA17)	22/04/2024	Attended	N/A	N/A	N/A	0.26	20	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 April 2024 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 April 2024

Location	Date	Analyte	Units	Limit	Result	Comments
SB-02	10/04/2024	pH	pH	6.5-8.5	7.82	Compliant with discharge criteria.
		Turbidity	NTU	50	37	
		Oil and grease	Visible	Not visible	Not visible	
SB-04	11/04/2024	pH	pH	6.5-8.5	7.99	Compliant with discharge criteria.
		Turbidity	NTU	50	43	
		Oil and grease	Visible	Not visible	Not visible	
SB-05	11/04/2024	pH	pH	6.5-8.5	7.96	Compliant with discharge criteria.
		Turbidity	NTU	50	35	
		Oil and grease	Visible	Not visible	Not visible	
SB-08	11/04/2024	pH	pH	6.5-8.5	8.02	Compliant with discharge criteria.
		Turbidity	NTU	50	34	
		Oil and grease	Visible	Not visible	Not visible	
SB-04	16/04/2024	pH	pH	6.5-8.5	7.92	Compliant with discharge criteria.
		Turbidity	NTU	50	33	
		Oil and grease	Visible	Not visible	Not visible	
SB-08	22/04/2024	pH	pH	6.5-8.5	8.49	Compliant with discharge criteria.
		Turbidity	NTU	50	24	
		Oil and grease	Visible	Not visible	Not visible	
SB-02	19/04/2024	pH	pH	6.5-8.5	7.42	Compliant with discharge criteria.
		Turbidity	NTU	50	48	
		Oil and grease	Visible	Not visible	Not visible	
SB-04	22/04/2024	pH	pH	6.5-8.5	7.83	Compliant with discharge criteria.
		Turbidity	NTU	50	44	

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		Oil and grease	Visible	Not visible	Not visible	
SB-05	22/04/2024	pH	pH	6.5-8.5	7.86	Compliant with discharge criteria.
		Turbidity	NTU	50	24	
		Oil and grease	Visible	Not visible	Not visible	