

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

May 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.

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 May 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
395 Wallgrove Road, Horsley Park	1/05/2025	Night	M7_NCA20	Attended	LAeq (15 min)	59.2	61	JH Works Compliant	Traffic on Wallgrove Road was the dominant noise source. Works were compliant with PNL. JHG works compliant.
20 Toulouse Street, Cecil Hills	1/05/2025	Night	M7_NCA16	Attended	LAeq (15 min)	47	56	JH Works Compliant	Traffic on the M7 motorway was the dominant noise source. Works were not audible. JHG works compliant.
11 Mavis St, Rooty Hill	6/05/2025	Night	M7_NCA22	Attended	LAeq (15 min)	51.6	55	JH Works Compliant	Traffic on the M7 and local roads was the dominant noise source. Works were not audible. JHG works compliant.
132 Station Street, Rooty Hill	7/05/2025	Night	M7_NCA26	Attended	LAeq (15 min)	59.3	55	JH Works Compliant	Traffic was consistently the dominant noise. Works were not audible. JHG works compliant.
24 Dobroyd Drive, Elizabeth Hills	7/05/2025	Night	M7_NCA13	Attended	LAeq (15 min)	50.9	59	JH Works Compliant	JHG works were the dominant noise source. Works compliant with the PNL. JHG works compliant.
113 Dobroyd Drive, Elizabeth Hills	7/05/2025	Night	M7_NCA13	Attended	LAeq (15 min)	50.9	59	JH Works Compliant	JHG works were the dominant noise source. Works compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Drive, Cecil Park	9/05/2025	Day	TfNSW_NCA_35	Attended	LAeq (15 min)	49.5	74	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
26 Isabel Street, Cecil Hills	9/05/2025	Day	TfNSW_NCA_16b	Attended	LAeq (15 min)	55.3	75	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
145 Eskdale Street Minchinbury	13/05/2025	Night	NCA23	Attended	LAeq (15 min)	48.4	43	JH Works Compliant	Dominant noise source was traffic on Great Western Highway and the M7. Works were compliant with the PNL. JHG works compliant.
145 Eskdale Street Minchinbury	13/05/2025	Night	NCA23	Attended	LAeq (15 min)	49.9	43	JH Works Compliant	Dominant noise source was traffic on Great Western Highway and the M7.

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
									Works were compliant with the PNL. JHG works compliant.
355 Wallgrove Road	15/05/2025	Day	NCA20	Attended	LAeq (15 min)	69	74	JH Works Compliant	Traffic was the dominant noise source. Works were compliant with the PNL. JHG works compliant.
44 Chilton Ave, Oakhurst	15/05/2025	Evening	M7_NCA30	Attended	LAeq (15 min)	50.2	56	JH Works Compliant	Dominant noise source was traffic from M7. Works were compliant with the PNL. JHG works compliant.
44 Chilton Ave, Oakhurst	15/05/2025	Night	M7_NCA30	Attended	LAeq (15 min)	55.7	56	JH Works Compliant	Dominant noise source was traffic from local roads and M7. Works were compliant with the PNL. JHG works compliant.
13 Woodley Crescent, Glendenning	15/05/2025	Night	M7_NCA32	Attended	LAeq (15 min)	46.6	48	JH Works Compliant	Dominant noise source was ambient noise (insects/traffic). Works were compliant with the PNL. JHG works compliant.
20 Woodley Crescent, Glendenning	15/05/2025	Night	M7_NCA31	Attended	LAeq (15 min)	46.9	60	JH Works Compliant	Dominant noise source was ambient noise (insects/traffic). Works were compliant with the PNL. JHG works compliant.
20 Mavis St, Rooty Hill	19/05/2025	Day	M7_NCA22	Attended	LAeq (15 min)	54.8	73	JH Works Compliant	Dominant noise source was M7 traffic. Works were compliant with the PNL. JHG works compliant.
20 Mavis St, Rooty Hill	21/05/2025	Day	M7_NCA22	Attended	LAeq (15 min)	55.7	73	JH Works Compliant	Dominant noise source was M7 traffic and the periodic train arrivals at Rooty Hill station. Works were compliant with the PNL. JHG works compliant.
355,363 wallgrove road, horsely park	23/05/2025	Night	M7_NCA20	Attended	LAeq (15 min)	63.9	60	JH Works Compliant	Traffic was the dominant noise source. Works were compliant with the PNL. JHG works compliant
20 Mavis St, Rooty Hill	26/05/2025	Day	M7_NCA22	Attended	LAeq (15 min)	53.9	54	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG 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
2-10 Kosovich Place, Cecil Park	27/05/2025	Day	M7_NCA17	Attended	LAeq (15 min)	55.1	62	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road and the M7. Works were inaudible. 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
44 Polonia Avenue, Plumpton	6/05/2025	Attended	0.05	0.4	Compliant	0.07	25	Compliant	Works were monitored and found to be compliant with the associated criteria
1111-1114 Elizabeth Drive, Cecil Park	9/05/2025	Attended	0.06	0.4	Compliant	0.09	25	Compliant	Works were monitored and found to be compliant with the associated criteria
26 Isabel Street, Cecil Hills	9/05/2025	Attended	0.04	0.4	Compliant	0.06	25	Compliant	Works were monitored and found to be compliant with the associated criteria
289, 293 Chandos Road, Horsley Park	29/05/2025	Attended	0.21	0.4	Compliant	0.33	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 May 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 May 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB10	01/05/2025	pH	pH	6.5-8.5	7.9	Compliant with discharge criteria.
		Turbidity	NTU	50	28	
		Oil and grease	Visible	Not visible	Not visible	
SB03	01/05/2025	pH	pH	6.5-8.5	7.45	Compliant with discharge criteria.
		Turbidity	NTU	50	28.1	
		Oil and grease	Visible	Not visible	Not visible	
SB13	02/05/2025	pH	pH	6.5-8.5	8.28	Compliant with discharge criteria.
		Turbidity	NTU	50	31.7	
		Oil and grease	Visible	Not visible	Not visible	
SB02	02/05/2025	pH	pH	6.5-8.5	8.29	Compliant with discharge criteria.
		Turbidity	NTU	50	18.9	
		Oil and grease	Visible	Not visible	Not visible	
SB03	05/05/2025	pH	pH	6.5-8.5	7.77	Compliant with discharge criteria.
		Turbidity	NTU	50	9.9	
		Oil and grease	Visible	Not visible	Not visible	
SB02	12/05/2025	pH	pH	6.5-8.5	8.5	Compliant with discharge criteria.
		Turbidity	NTU	50	25.1	
		Oil and grease	Visible	Not visible	Not visible	
SB03	13/05/2025	pH	pH	6.5-8.5	8.28	Compliant with discharge criteria.
		Turbidity	NTU	50	49.7	
		Oil and grease	Visible	Not visible	Not visible	
SB16	14/05/2025	pH	pH	6.5-8.5	8.01	

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		Turbidity	NTU	50	11	Compliant with discharge criteria.
		Oil and grease	Visible	Not visible	Not visible	
SB02	16/05/2025	pH	pH	6.5-8.5	7.65	Compliant with discharge criteria.
		Turbidity	NTU	50	44.1	
		Oil and grease	Visible	Not visible	Not visible	
SB01	17/05/2025	pH	pH	6.5-8.5	7.92	Compliant with discharge criteria.
		Turbidity	NTU	50	38.6	
		Oil and grease	Visible	Not visible	Not visible	
SB13	20/05/2025	pH	pH	6.5-8.5	7.44	Compliant with discharge criteria.
		Turbidity	NTU	50	39.6	
		Oil and grease	Visible	Not visible	Not visible	
SB08	21/05/2025	pH	pH	6.5-8.5	8.09	Compliant with discharge criteria.
		Turbidity	NTU	50	33	
		Oil and grease	Visible	Not visible	Not visible	
SB08	26/05/2025	pH	pH	6.5-8.5	7.2	Compliant with discharge criteria.
		Turbidity	NTU	50	36.6	
		Oil and grease	Visible	Not visible	Not visible	
SB13	26/05/2025	pH	pH	6.5-8.5	7.55	Compliant with discharge criteria.
		Turbidity	NTU	50	15.7	
		Oil and grease	Visible	Not visible	Not visible	
SB02	27/05/2025	pH	pH	6.5-8.5	7.57	Compliant with discharge criteria.
		Turbidity	NTU	50	49.5	
		Oil and grease	Visible	Not visible	Not visible	
SB07	29/05/2025	pH	pH	6.5-8.5	6.89	Compliant with discharge criteria.
		Turbidity	NTU	50	31.5	

		Oil and grease	Visible	Not visible	Not visible	
SB10	30/05/2025	pH	pH	6.5-8.5	8.17	Compliant with discharge criteria.
		Turbidity	NTU	50	38	
		Oil and grease	Visible	Not visible	Not visible	
SB03	30/05/2025	pH	pH	6.5-8.5	8.08	Compliant with discharge criteria.
		Turbidity	NTU	50	43.3	
		Oil and grease	Visible	Not visible	Not visible	