

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

October 2023



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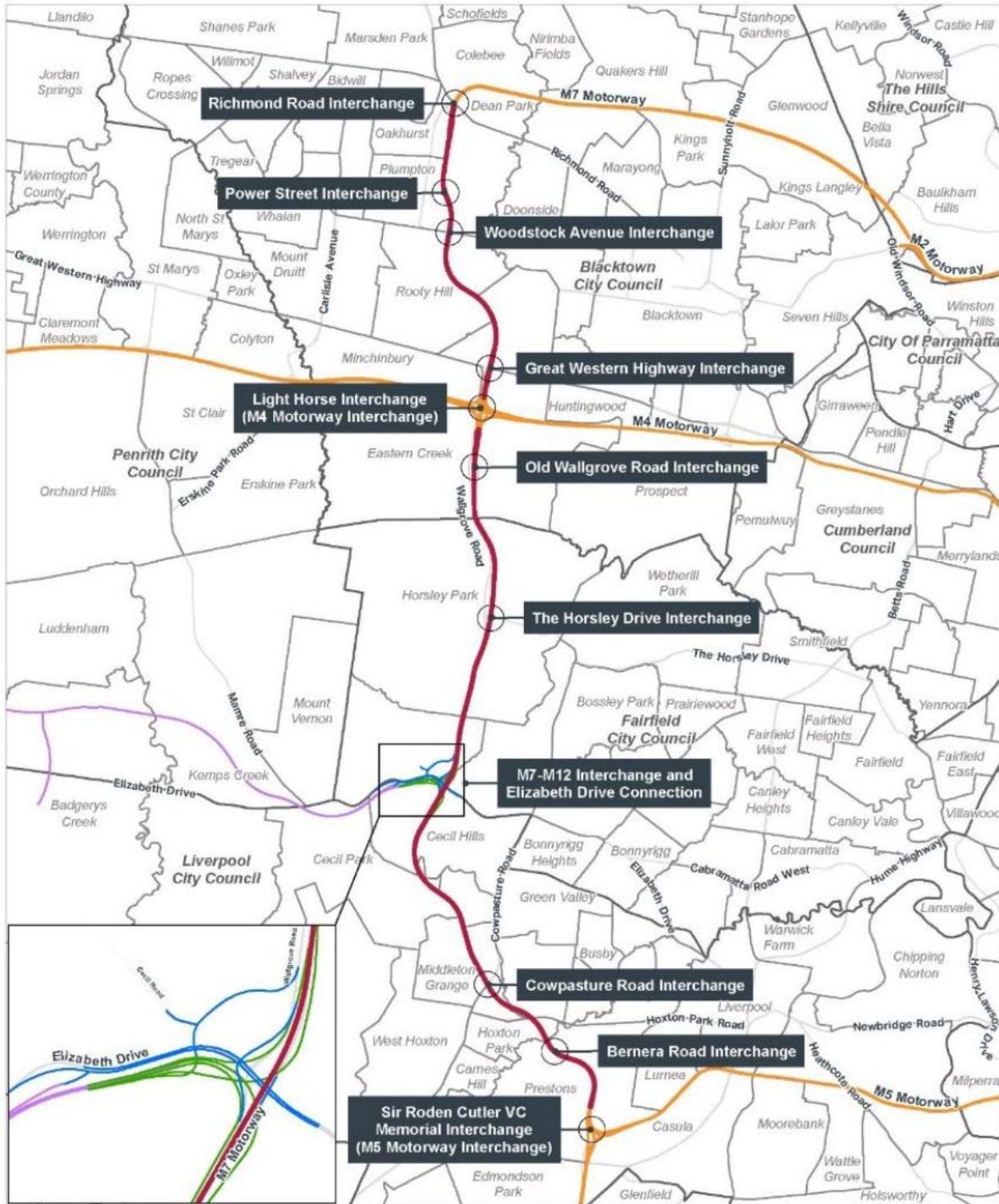
1 Project summary

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 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 in accordance with the requirements of the M12 East Construction Noise and Vibration Monitoring Program (M7M12UDC-JHGRP-M7A-EN-PRG-000002).

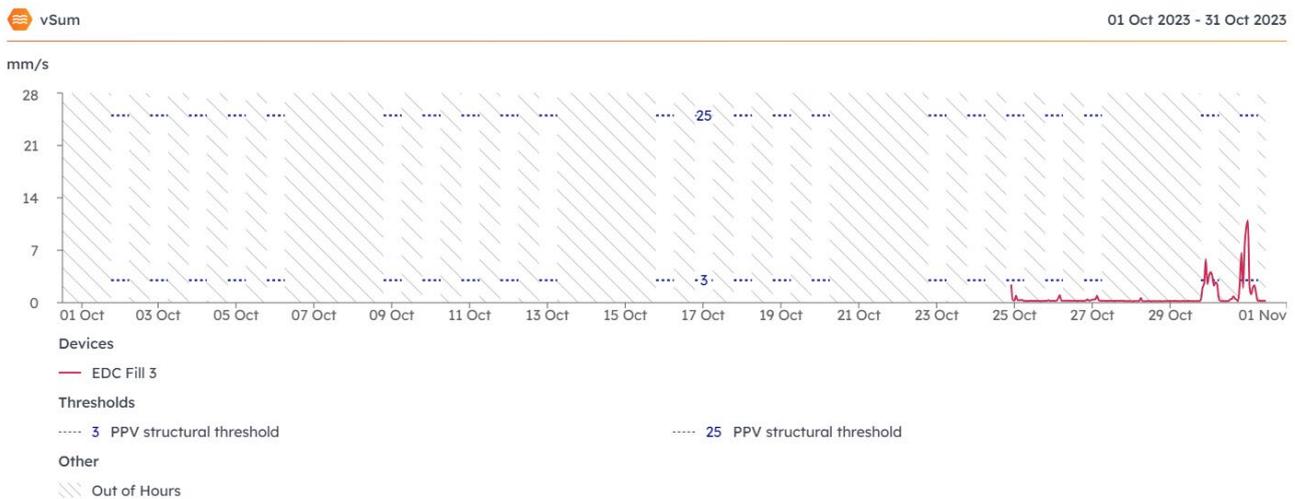
All works were deemed compliant as they complied with applicable criteria, monitoring was predominantly dominated by background noise sources e.g. traffic and detailed in Table 4-1.

3.2 Vibration monitoring

Continuous vibration monitoring was undertaken during the reporting period as vibration intensive works were undertaken near sensitive receivers specifically the Air Shaft 3 heritage item.

A continuous real-time monitor (EDC Fill 3) was installed on the 25th of October within the Air Shaft 3 exclusion zone to monitor the vibration levels due to construction activities being undertaken near the Air Shaft 3 heritage item.

Construction activities remained compliant with the specified 25 mm/s Peak Particle Velocity (PPV) structural threshold for Air Shaft 3 at all times.



4 Discharge Water Quality Monitoring

No offsite discharge occurred during October 2023.

Table 4-1 Noise monitoring data

Location Description	Monitoring date	Standard/ OOH Works	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
18 Rigney Close, Cecil Park (NCA 02).	5/10/2023	OOHW	Attended	LAeq (15min)	35.8	44	Compliant	Geotechnical borehole drilling, asphaltting road surface
158 Duff Road, Cecil Park (NCA 04).	5/10/2023	OOHW	Attended	LAeq (15min)	36.7	43	Compliant	Geotechnical borehole drilling, asphaltting road surface.
2073 Elizabeth Drive Cecil Park (NCA 04).	5/10/2023	OOHW	Attended	LAeq (15min)	69	67	Compliant	Geotechnical drilling and road asphalt placement. Traffic and background noise dominant sources throughout the monitoring period. M7-M12 works were inaudible throughout the monitoring period. M7-M12 works compliant.
23 Isabel St, Cecil Hills (NCA 02)	5/10/2023	OOHW	Attended	LAeq (15min)	49.4	47	Compliant	Borehole drilling west median Elizabeth Dr and Wallgrove Rd intersection. Traffic and background noise dominant sources throughout the monitoring period. M7-M12 works compliant.
14 Rigney Close, Cecil Park (NCA 04).	5/10/2023	OOHW	Attended	LAeq (15min)	44.3	44	Compliant	Borehole -drill rig. Traffic from Elizabeth Drive dominant noise sources throughout the monitoring period. M7-M12 works compliant.
2073 Elizabeth Drive Cecil Park (NCA 04).	5/10/2023	OOHW	Attended	LAeq (15min)	68.4	65	Compliant	Borehole -drill rig. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period. M7-M12 works compliant
23 Isabel St, Cecil Hills (NCA 02)	9/10/2023	OOHW	Attended	LAeq (15min)	54	69	Compliant	Line marking works on Elizabeth Drive.
1111-1114 Elizabeth Drive Cecil Park (NCA 01)	9/10/2023	OOHW	Attended	LAeq (15min)	62.8	66	Compliant	Asphalt Works Eastbound.
2073 Elizabeth Drive Cecil Park (NCA 04)	10/10/2023	OOHW	Attended	LAeq (15min)	60.7	66	Compliant	Summit Tree Clearing, side walling.
1 Rene Place, Cecil Park (NCA 04)	10/10/2023	OOHW	Attended	LAeq (15min)	38.9	69	Compliant	Line marking works on Elizabeth Drive. M7 Median geotechnical borehole works.
2073 Elizabeth Drive Cecil Park (NCA 04).	10/10/2023	OOHW	Attended	LAeq (15min)	61.2	65	Compliant	Asphaltting and Telstra pit works. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period
28 Cecil Road Monitoring Point (NCA 02)	10/10/2023	OOHW	Attended	LAeq (15min)	60.4	42	Compliant	Asphaltting and Telstra pit works. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period
24 Isabel Street Cecil Hills (NCA 02)	10/10/2023	OOHW	Attended	LAeq (15min)	40.7	45	Compliant	Bore hole drilling geotechnical investigations. Traffic from Elizabeth Drive and M7 dominant noise sources throughout the monitoring period. M7-M12 works inaudible.
18 Cecil Road Cecil Park (NCA 04)	11/10/2023	OOHW	Attended	LAeq (15min)	55	55	Compliant	Potholing, service location activities. Saw cutting of kerb.
4 Burgundy Close, Cecil Hills (NCA 02)	11/10/2023	OOHW	Attended	LAeq (15min)	46	44	Compliant	Potholing, signage installation. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
14 Rigney Close, Cecil Park (NCA 04).	11/10/2023	OOHW	Attended	LAeq (15min)	38.1	45	Compliant	Asphaltting and saw cutting for civil works activities being conducted.
23 Isabel St, Cecil Hills (NCA 02)	11/10/2023	OOHW	Attended	LAeq (15min)	41.9	44	Compliant	Signage installation and non-destructive digging activities.

Environment Protection Licence Environment Monitoring Data

Location Description	Monitoring date	Standard/ OOH Works	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
14 Rigney Close, Cecil Park (NCA 04).	12/10/2023	OOHW	Attended	LAeq (15min)	55.2	42	Compliant	Signage installation works . Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
2801 Elizabeth Drive, Cecil Park (NCA 04).	12/10/2023	OOHW	Attended	LAeq (15min)	62.4	62	Compliant	Signage installation and non-destructive digging activities. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
2073 Elizabeth Drive Cecil Park (NCA 04).	12/10/2023	OOHW	Attended	LAeq (15min)	60.1	67	Compliant	Signage installation
56 Cecil Rd, Cecil Park (NCA 04)	13/10/2023	OOHW	Attended	LAeq (15min)	46.7	44	Compliant	Potholing, Telstra manhole K to U construction and installation, Borehole drilling. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
1 Kosovich Pl, Cecil Park (NCA 01)	13/10/2023	OOHW	Attended	LAeq (15min)	50.1	41	Compliant	Borehole drilling, potholing, manhole K to U construction and installation. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
23 Isabel St, Cecil Hills (NCA02)	13/10/2023	OOHW	Attended	LAeq (15min)	44.1	41	Compliant	Borehole drilling works. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
56 Cecil Rd, Cecil Park (NCA 04)	13/10/2023	OOHW	Attended	LAeq (15min)	57	43	Compliant	Geotechnical borehole drilling, water blasting and line marking activities. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
13 Kosovich Place Cecil Park (NCA 01)	13/10/2023	OOHW	Attended	LAeq (15min)	45.9	40	Compliant	Borehole drilling, line marking and blasting activities performed. Traffic from Elizabeth Drive and Wallgrove Road and M7 Motorway dominant noise source. M7-M12 works compliant.
31 Isabel St Cecil Hills (NCA02)	13/10/2023	OOHW	Attended	LAeq (15min)	48.5	48	Compliant	Water blasting-line marking and borehole drilling activities. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
33 Isabel Street Cecil Hills (NCA02)	16/10/2023	OOHW	Attended	LAeq (15min)	49.9	59	Compliant	Non-destructive digging, vacuum truck being used. Ambient traffic noise of note. M7-M12 works compliant
2073-2081 Elizabeth Drive Cecil Park (NCA 04)	16/10/2023	OOHW	Attended	LAeq (15min)	65.8	65	Compliant	Potholing and asphaltting works. Traffic from Elizabeth Drive dominant noise source throughout the monitoring period with periodic noise from construction. M7-M12 works compliant
30-36 Cecil Road, Cecil Park (NCA 04)	17/10/2023	OOHW	Attended	LAeq (15min)	58.2	34	Compliant	Potholing along future EDC area. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. Construction inaudible. M7-M12 works compliant

Environment Protection Licence Environment Monitoring Data

Location Description	Monitoring date	Standard/ OOH Works	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
9 Washington Way Cecil Park (NCA 03)	17/10/2023	OOHW	Attended	LAeq (15min)	46.8	44	Compliant	Potholing service location. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant.
31 Isabel St Cecil Hills (NCA 02)	18/10/2023	OOHW	Attended	LAeq (15min)	46	59	Compliant	Potholing and service locating works. Road traffic noise notable. M7-M12 works compliant
24 Isabel Street Cecil Hills (NCA 02)	18/10/2023	OOHW	Attended	LAeq (15min)	44.5	32	Compliant	Barrier installation works. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
13 Kosovich Place Cecil Park (NCA 01)	19/10/2023	OOHW	Attended	LAeq (15min)	43.9	33	Compliant	Geotech, Borehole drilling and barrier installation activities . Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources.
2073 Elizabeth Drive Cecil Park (NCA 04).	19/10/2023	OOHW	Attended	LAeq (15min)	60.1	62	Compliant	Barrier installation activities M7-M12 works compliant
158 Duff Road, Cecil Park (NCA 04)	19/10/2023	OOHW	Attended	LAeq (15min)	55.6	51	Compliant	Manhole, barrier installations along Elizabeth Drive. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
2089 Elizabeth Dr Cecil Park (NCA 04).	19/10/2023	OOHW	Attended	LAeq (15min)	60.3	72	Compliant	Manhole installation work and barrier placement along Elizabeth Drive. Traffic noise dominant noise source M7-M12 works compliant.
2073 Elizabeth Drive Cecil Park (NCA 04).	19/10/2023	OOHW	Attended	LAeq (15min)	64	62	Compliant	Telstra manhole hammering, excavator, barrier installation. Traffic from Elizabeth Drive, dominant noise sources. M7-M12 works compliant
71 Brolen Way Cecil Park (NCA 04)	19/10/2023	OOHW	Attended	LAeq (15min)	41	41	Compliant	Borehole drilling, barrier installation and manhole excavation activities. Traffic noise dominant noise source. M7-M12 works compliant
33 Isabel Street Cecil Hills (NCA 02)	20/10/2023	OOHW	Attended	LAeq (15min)	45.8	44	Compliant	Geotechnical activities. Traffic from Elizabeth Drive, dominant noise sources. M7-M12 works compliant
33 Alaine Place Cecil Park (NCA 02)	20/10/2023	OOHW	Attended	LAeq (15min)	49.7	42	Compliant	Potholing, service locating, borehole drilling. Traffic from Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
22 Kosovich Place Cecil Park (NCA 01)	20/10/2023	OOHW	Attended	LAeq (15min)	47.8	33	Compliant	Potholing, barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
23 Isabel St, Cecil Hills (NCA 02)	20/10/2023	OOHW	Attended	LAeq (15min)	48	31	Compliant	Potholing, barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
18 Cecil Road Cecil Park (NCA 02)	21/10/2023	OOHW	Attended	LAeq (15min)	51.6	49	Compliant	Potholing, barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
139 Cecil Rd Cecil Park (NCA 04)	21/10/2023	OOHW	Attended	LAeq (15min)	51.8	33	Compliant	Potholing, barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant

Environment Protection Licence Environment Monitoring Data

Location Description	Monitoring date	Standard/ OOH Works	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
6 Washington Way, Cecil Park (NCA 03)	23/10/2023	OOHW	Attended	LAeq (15min)	48.8	46	Compliant	Potholing works and barrier placement on the corner of Cecil Road and Elizabeth Drive. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources.
28 Cecil Road, Cecil Park (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	52.3	55	Compliant	Potholing and barrier placement on the corner of Cecil Road and Elizabeth Drive. M7-M12 works compliant
37-73 Wallgrove Road (NCA 04)	23/10/2023	OOHW	Attended	LAeq (15min)	65.5	56	Compliant	Barrier placement on the corner of Elizabeth and Wallgrove Road. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
26 Anjou Circuit Cecil Hills (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	46.9	57	Compliant	Key activities are linemarking removal works on the M7 northbound.
17 Toulouse Street, Cecil Hills (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	49.1	60	Compliant	Key activities are linemarking removal works on the M7 northbound. M7-M12 works compliant
15 Henrietta Close, Cecil Park (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	40.5	50	Compliant	Key activities are linemarking removal works on the M7 northbound. M7-M12 works compliant
9 Jacquetta Close, Cecil Hills (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	38.8	51	Compliant	Key activities are line marking removal works on the M7 northbound. M7-M12 works compliant
33 Isabel Street Cecil Hills (NCA 02)	23/10/2023	OOHW	Attended	LAeq (15min)	43.6	53	Compliant	Key activities are line marking removal works on the M7 northbound. M7-M12 works compliant
33 Isabel Street Cecil Hills (NCA 02)	24/10/2023	OOHW	Attended	LAeq (15min)	51	54	Compliant	Line marking, barrier installation, potholing. M7-M12 works compliant
10 Kosovich Place Cecil Park (NCA 03)	24/10/2023	OOHW	Attended	LAeq (15min)	56	62	Compliant	Line marking, sign installation, survey. M7-M12 works compliant
233-243 Wallgrove Road, Cecil Park (NCA 04)	25/10/2023	OOHW	Attended	LAeq (15min)	64	67	Compliant	Line marking Sign installation Survey. M7-M12 works compliant
52,56 Elaine Place Cecil Park (NCA 01)	25/10/2023	OOHW	Attended	LAeq (15min)	55.9	68	Compliant	Line marking Sign installation Survey. M7-M12 works compliant
2,10 Kosovich Place Cecil Park (NCA 01)	25/10/2023	OOHW	Attended	LAeq (15min)	55.1	66	Compliant	Line marking Sign installation Survey. M7-M12 works compliant
37-73 Wallgrove Road (NCA 04)	25/10/2023	OOHW	Attended	LAeq (15min)	68.1	66	Compliant	Line marking and sign installation, survey works also underway. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
99 Cecil Rd Cecil Park (NCA 04)	26/10/2023	OOHW	attended	LAeq (15min)	61.2	60	Compliant	Barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road and M7 Motorway dominant noise sources. M7-M12 works compliant
2 Washington Way Cecil Park (NCA 04)	26/10/2023	OOHW	attended	LAeq (15min)	42.9	41	Compliant	Barrier installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road, and M7 Motorway dominant noise sources. M7-M12 works compliant
17 Toulouse Street, Cecil Hills (NCA 02)	26/10/2023	OOHW	attended	LAeq (15min)	49.3	59	Compliant	Line marking, signage, Geotech borehole drilling M7-M12 works compliant

Environment Protection Licence Environment Monitoring Data

Location Description	Monitoring date	Standard/ OOH Works	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
33 Isabel Street Cecil Hills (NCA 02)	26/10/2023	OOHW	attended	LAeq (15min)	45.1	59	Compliant	Line marking, signage works, Geotech borehole drilling M7-M12 works compliant
18 Cecil Road, Cecil Park (NCA 04)	27/10/2023	Standard	attended	LAeq (15min)	66	75	Compliant	Pipe welding works in Cecil Road Jemena Laydown. M7-M12 works compliant
158 Duff Road Cecil Park (NCA 04)	27/10/2023	OOHW	attended	LAeq (15min)	43	41	Compliant	Barrier and signage installation. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road, and M7 Motorway dominant noise source M7-M12 works compliant
2089 Elizabeth Dr Cecil Park (NCA 04).	27/10/2023	OOHW	attended	LAeq (15min)	58.6	60	Compliant	Barrier and signage installation. Traffic noise dominant noise source in area. M7-M12 works compliant
2073 Elizabeth Drive Cecil Park (NCA 04).	27/10/2023	OOHW	attended	LAeq (15min)	64.5	65	Compliant	Barrier and signage installation. Traffic noise dominant noise source in area. M7-M12 works compliant
3 Burgundy Cl Cecil Hills (NCA 04)	27/10/2023	OOHW	attended	LAeq (15min)	49.4	56	Compliant	Barrier and signage installation. Traffic noise dominant noise source in area. M7-M12 works compliant
33 Isabel Street Cecil Hills (NCA 02)	27/10/2023	OOHW	attended	LAeq (15min)	44.7	57	Compliant	Barrier and signage installation. Traffic noise dominant noise source in area. M7-M12 works compliant
2,10 Kosovich Place Cecil Park (NCA01)	28/10/2023	OOHW	attended	LAeq (15min)	39.6	36	Compliant	Signage and barrier installations. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road, and M7 Motorway dominating ambient levels. M7-M12 works compliant
1 Kosovich Pl, Cecil Park (NCA 01)	30/10/2023	OOHW	attended	LAeq (15min)	57.7	36	Compliant	Barrier placement on M7 median. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road, and M7 Motorway dominant noise source. M7-M12 works compliant
37-73 Wallgrove Road (NCA 04)	30/10/2023	OOHW	attended	LAeq (15min)	60	51	Compliant	Temporary M7 median activities. Traffic from Elizabeth Drive, Cecil Road, Wallgrove Road, and M7 Motorway dominant noise source. 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
EDC Fill 3 - Refer to Figure 1.2	25/10/23 to 31/10/23	Continuous	Refer to Figure 1.2	Refer to Figure 1.2	Refer to Figure 1.2	Refer to Figure 1.2	25	Yes	Works were monitored and found to be compliant with structural criteria and below the PPV target value.

Note:

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

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

Location	Date	Analyte	Units	Limit	Result	Comments
Nil						