

M1 Pacific Motorway Extension to Raymond Terrace – Black Hill to Tomago

EPL Monthly Monitoring Report – June 2025

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Revisions

Revisions

Draft issues of this document are identified as Revision A, B, C, etc. Upon initial issue (generally Contract Award) this will be changed to a sequential number commencing at Revision 0. Revision numbers will continue at Revision 1, 2, etc.

| Rev | Date | Prepared By [Name] | Reviewed By [Name] | Approved By [Name] | Remarks |
|-----|------------|-----------------------|-----------------------|-----------------------|---------|
| 00 | 07/07/2025 | E. Gilbert | K. Lloyd | K. Lloyd | |
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1. Introduction

M12RT will extend the M1 Pacific Motorway from Black Hill to the Pacific Highway at Raymond Terrace, about 15 kilometres, bypassing Beresfield, Hexham, and Heatherbrae (refer Figure 2-1). M12RT traverses the City of Newcastle and Port Stephens Council local government areas (LGAs). The suburbs of Beresfield, Tarro, Heatherbrae, and Raymond Terrace are located to the north of the

Project, with Black Hill, Hexham and Tomago located to the south of the Project. M12RT will provide a critical link in the National Land Transport Network, particularly for the coastal Sydney to Brisbane corridor.

M12RT includes the following key features:

- Black Hill: connection to the M1 Pacific Motorway
- Tarro: connection and upgrade (six lanes) to the New England Highway between John Renshaw Drive and the existing Tarro interchange at Anderson Drive
- Tomago: connection to the Pacific Highway and Old Punt Road
- Raymond Terrace: connection to the Pacific Highway
- A 2.6 kilometre viaduct over the Hunter River floodplain including new bridge crossings over the Hunter River, the Main North Rail Line, and New England Highway
- Bridge structure over local waterways at Tarro and Raymond Terrace, and an overpass for Masonite Road in Heatherbrae
- Connections and modifications to the adjoining local road network
- Traffic management facilities and features
- Roadside furniture including safety barriers, signage, fauna fencing and crossings, and street lighting
- Adjustment of waterways, including at Purgatory Creek at Tarro and a tributary of Viney Creek
- Environmental management measures, including surface water quality control measures
- Adjustment, protection and/or relocation of existing utilities
- Walking and cycling considerations, allowing for existing and proposed cycleway route access
- Permanent and temporary property adjustments and property access refinements
- Construction activities, including establishment and use of temporary ancillary facilities, temporary access tracks, haul roads, batching plants, temporary wharves, soil treatment and environmental controls

The M12RT delivery strategy includes construction via two collaborative Design and Construct (D&C) contracts:

- Stage 1 - Construction - Southern Package (BH2T), delivered by the John Holland Gamuda Australia Joint Venture (JHGA JV)
- Stage 2 - Construction - Northern Package (Heatherbrae Bypass), delivered by Seymour White.

JHGA JV will deliver the southern contract This report covers works for that southern contract package works.

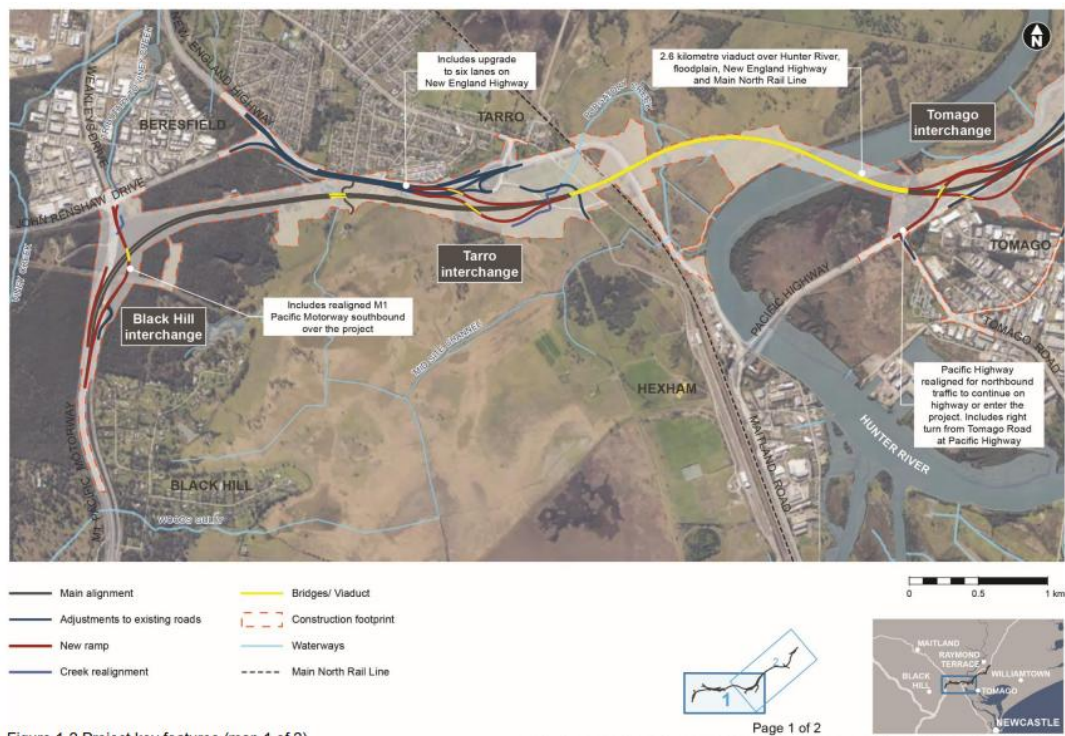


Figure 1: M12RT Project Overview – Southern Section (Source: M1 Pacific Motorway to Raymond Terrace EIS)

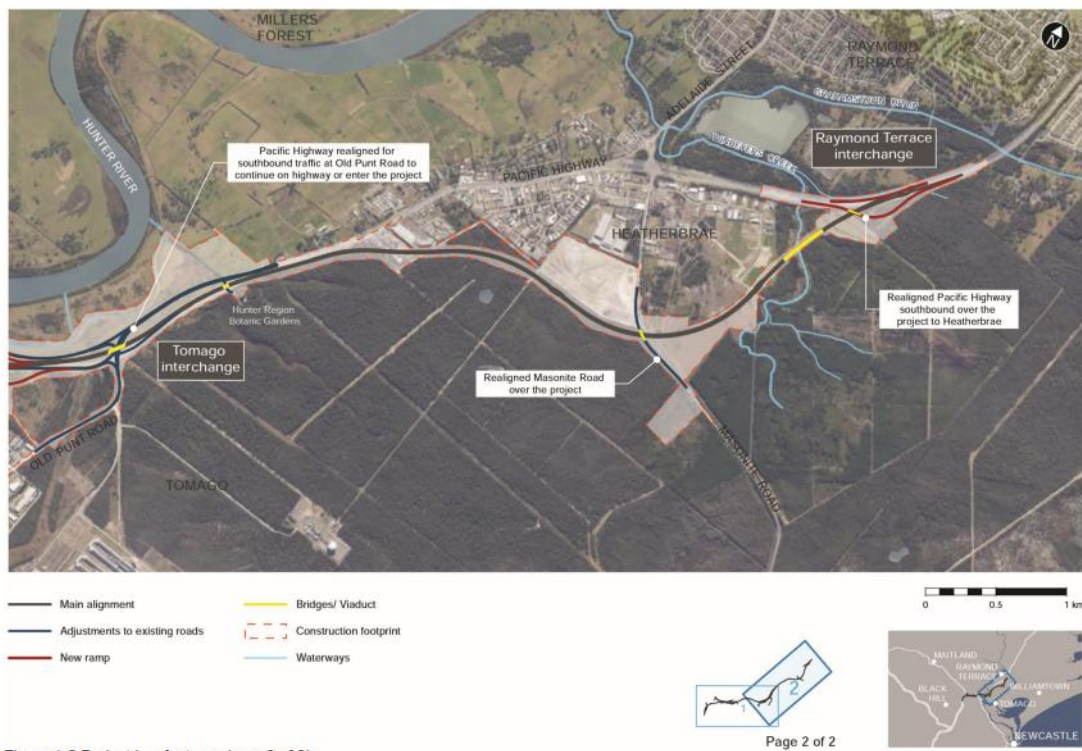


Figure 2: M12RT Project Overview – Northern Section (Source: M1 Pacific Motorway to Raymond Terrace EIS)

2. Environmental Protection Licence and Reporting Requirements

John Holland Gamuda JV obtained the Environment Protection Licence (EPL No. 21808) from the NSW Environment Protection Authority for the M1 Motorway Extension to Raymond Terrace – Black Hill to Tomago in September 2023. The licence is for construction works relating to 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 construction works, and specifically as they relate to:

- Water discharge limits
- Noise limits

The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL and current variations can be found by following the links below to the EPA's website:

[ViewPOEOLicence.aspx \(nsw.gov.au\)](https://www.epa.nsw.gov.au/ViewPOEOLicence.aspx)

[ViewPOEONotice.aspx \(nsw.gov.au\)](https://www.epa.nsw.gov.au/ViewPOEONotice.aspx)

3. Water Monitoring

There was 18.4mm rain recorded with the Project area during June 2025. The following discharge water quality monitoring results as per Condition M2.3 were recorded.

Table 1: Sediment Basin Water Quality Monitoring Results

| Sediment Basin Number | Discharge Point Number | Date | Water Quality Monitoring Results | | |
|-----------------------|------------------------|------------|----------------------------------|-----------------|------------|
| | | | pH | Turbidity (NTU) | Oil/Grease |
| 3 | BH2T-2 | 02/06/2025 | 7.40 | 36.8 | No |
| 3 | BH2T_2 | 13/06/2025 | 7.48 | 39.5 | No |
| 4 | BH2T_2 | 13/06/2025 | 7.36 | 36.8 | No |
| 3 | BH2T_2 | 17/06/2025 | 7.29 | 33.6 | No |
| 4 | BH2T_2 | 17/06/2025 | 8.08 | 33.5 | No |

4. Noise Monitoring

Noise monitoring was undertaken during the June 2025 reporting period. Construction noise monitoring results were above NML in most cases however due to background noise levels (heavy continuous traffic M1/New England Hwy/Pacific Hwy/Tomago Road) and inaudibility of construction noise at sensitive receivers were generally compliant during this period. Where the predicted noise level was exceeded, this was result of extraneous activities (traffic passing etc). Construction noise was in line with the predicted levels. Table 2 contains detailed noise monitoring results.

Table 2: Noise Monitoring Results

| Monitoring Location (Noise Catchment Area, Street, Suburb) | Date | Time (24hr) | Attended or Continuous Monitoring | Parameter | Goal/Target dB(A) | Actual dB(A) | Comments |
|--|------------|----------------|--------------------------------------|---------------|-------------------|--------------|--|
| NCA01A 23 Cahill Cl, Black Hill | 06/06/2025 | 11:02 | Attended | Laeq15 Minute | 61 | 56 | Compliant. Heavy traffic noise on M1. No audible noise from site construction works. |
| NCA01B 24 Walter Pde, Black Hill | 06/06/2025 | 11:30 | Attended | Laeq15 Minute | 47 | 48.80 | Non - compliant. Constant low level background noise from distant M1 and birds. |
| NCA03 54 Weakleys Dr, Beresfield | 06/06/2025 | 10:16 | Attended | Laeq15 Minute | 76 | 73.10 | Compliant. Constant flow of traffic along Weakleys Dr. No audible noise from site construction works. |
| NCA04A 1/15 Quarter Sessions Rd, Tarro | 06/06/2025 | 09:41 | Attended | Laeq15 Minute | 61 | 70.90 | Non-compliant. Heavy traffic noise New England Highway. Occasional construction related noise e.g street sweeper at Gate 3 and noise wall works. |
| NCA04B 22 Lenox St, Beresfield | 12/06/2025 | 09:31 | Attended | Laeq15 Minute | 55 | 53.70 | Compliant. Constant cars passing monitor. Occasional metal on metal sounds (e.g excavator) during periods of low traffic. |
| NCA05A 11 Anderson Dr, Tarro | 23/06/2025 | 16:22 | Attended | Laeq15 Minute | 65 | 63.90 | Compliant. Constant traffic on New England Highway and Anderson Drive. Utility works at the end of Anderson Dr. |
| NCA05B 49 Beresford Ave, Beresfield | 23/06/2025 | 15:57 | Attended | Laeq15 Minute | 51 | 55.10 | Non-compliant. Constant cars passing monitor and train in the background. No audible noise from project. |
| NCA06 61 Red Bill Dr, Woodberry | 12/06/2025 | 09:58 | Attended | Laeq15 Minute | 48 | 58.80 | Non-compliant. Cars passing and dog constantly barking. |
| NCA07 1 Woodlands Cl, Tarro | 30/06/2025 | 07:20 | Attended | Laeq15 Minute | 53 | 61.60 | Non-compliant. Contant noise from New England Highway and fauna audible. Excavator squawker was audible but did not spike readings. |

Black Hill to Tomago

| Monitoring Location (Noise Catchment Area, Street, Suburb) | Date | Time (24hr) | Attended or Continuous Monitoring | Parameter | Goal/Target dB(A) | Actual dB(A) | Comments |
|--|------------|----------------|--------------------------------------|---------------|-------------------|--------------|--|
| NCA08 213 Maitland Rd, Hexham | 30/06/2025 | 08:45 | Attended | Laeq15 Minute | 51 | 79 | Non-compliant. Constant traffic on New England Highway. |
| NCA09 838 Tomago Rd, Tomago | 20/06/2025 | 15:03 | Attended | Laeq15 Minute | 62 | 72.10 | Non-compliant. Constant traffic on Tomago Road. Timber pilling audible from riverbank but not picked up on monitor in conjunction with the constant traffic. |
| NCA14A 2137-2171 Pacific Highway, Heatherbrae | 20/06/2025 | 14:08 | Attended | Laeq15 Minute | 64 | 67.90 | Non-compliant. Constant traffic on Pacific Highway. Project related noise was audible but stayed under PNL when traffic was minimal. |

