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Executive Summary

This Monthly Environmental Report (MER) has been produced for Project Works undertaken on site for June 2023 for the Rail, Integration and Systems (RIS), and Tunnel, Stations and Development (TSD) packages. The report addresses the obligations outlined in the Coordinator-General's change report – *Coordinator-General's change report – no. 13 (March 2022).* Plus, the individual contractor's Construction Environmental Management Plans (CEMPs), which have been developed generally in accordance with the Project's Outline Environmental Management Plan (OEMP). The Cross River Rail Delivery Authority (Delivery Authority), as the Proponent of the Cross River Rail Project, is required to submit a monthly report to the Coordinator-General to demonstrate compliance with the imposed conditions.

Section 1 of this report provides a background to the project and the Coordinator-General's conditions. Section 2 provides a review of the contractor's reports contained in **Appendix A** (RIS Monthly Report) and **Appendix B** (TSD Monthly Report).

The Environmental Monitor (EM) has reviewed and endorsed this MER. This endorsement follows ongoing and new document reviews, and surveillance across the relevant project worksites.

The CEMPs prepared by both Unity Alliance (RIS Contractor) and CBGU JV on behalf of Pulse (TSD Contractor) for their Relevant Project Works were endorsed by the EM and submitted to the Coordinator-General in accordance with Condition 4(a) and 4(b) respectively.

The table below presents a summary of compliance status against each condition with a short comment for each:

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
1.	General conditions – compliance with the Project Changes relevant to the contractor's scope	Yes	The CEMP and site management plans are in accordance with the Project Changes.
2.	Outline Environmental Management Plan – timely submission to the Coordinator- General including required sub- plans		OEMP dated June 2020 is effective for the reporting period.
3.	Design – achievement of the Environmental Design Requirements	NA	Ongoing progress with design packages.
4.	4. Construction Environmental Management Plan – all relating to Relevant Project Works.		RIS – CEMP Revision 13 covering full scope of RIS works is effective from 14 March 2022. TSD – CEMP Revision 11 covering full scope of TSD works is effective from 24 November 2022.
5.	Compliance and Incident management – Non-compliance events, notifications and reporting.	Yes	No Non-Compliance Events (NCEs) occurred in June 2023.





Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
6.	Reporting – Monthly and Annual reporting.	Yes	This MER, including RIS and TSD Monthly Reports, has been submitted in accordance with the conditioned requirements. Refer to Appendix A and Appendix B.
7.	Environmental Monitor (EM) – engaged and functions resumed.	Yes	Ongoing weekly site inspections and document reviews continue to take place.
8.	Community Relations Monitor (CRM) – engaged and functions resumed	Yes	Ongoing.
9.	Community Engagement Plan – developed and endorsed by Environmental Monitor. Yes		CEMPs endorsed with Community Engagement Plan.
10.	Hours of work – Project Works undertaken during approved hours.	Yes	Project Works have been undertaken in accordance with project requirements. This has been achieved through Standard Working Hours, Extended work hours and Managed Work.
	Noise – Project Works must aim to achieve internal noise goals for human health and well-being.	Yes	Noise monitoring met project noise requirements at Sensitive Places. RIS – Noise monitoring was undertaken to validate predicted noise modelling. Refer to Appendix A (Table 4 and Section 3.1.6). TSD – Noise monitoring was undertaken to validate predicted noise modelling. Noise monitoring confirmed project requirements were met. Refer to Appendix B (Table 3 and Section 3.2).
11.	Vibration – Project Works must aim to achieve vibration goals for cosmetic damage, human comfort and sensitive building contents.	Yes	Vibration monitoring met project vibration requirements at Sensitive Places. RIS – Vibration monitoring occurred at RNA. The results met the requirements of the endorsed CEMP. Refer to Appendix A (Table 5 and Section 3.1.3). TSD – Vibration monitoring occurred at Roma Street. The results met the requirements of the endorsed CEMP. Refer to Appendix B (Section 3.1).





Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA) Comment	
12.	Property damage – relating to ground movement.	Yes	RIS – Vibration modelling has been undertaken for Relevant Project Works, and Property Damage Sub-plans have been developed and implemented. Precondition surveys have been completed at heritage, commercial and residential buildings at RNA, Northern Corridor and Dutton Park to Salisbury stations. TSD – Vibration modelling has been prepared and is ongoing. Where required, building condition survey reports are completed for heritage and residential buildings. No enquiries relating to property damage were received during June 2023.
13.	Air quality – Works must aim to achieve air quality goals for human health and nuisance.	Yes	Air quality monitoring met Project air quality requirements. RIS – Contractor confirmed they continued to meet the requirements under Condition 13 and the OEMP. Refer to Appendix A (Tables 7, 8 and 9 and Section 3.1.11, plus Figures 1, 2, 3 and 4). TSD – Contractor confirmed they continued to meet the requirements under Condition 13 and the OEMP. Refer to Appendix B (Tables 4.2.2, 5 plus Section 3.3).
14.	Traffic and transport – Works must minimise adverse impacts on road safety and traffic flow.	Yes	Traffic Management Plans are covered in the CEMPs. Sub-plans for all active worksites have been reviewed by the EM.
15.	Water quality – Works must not discharge groundwater from the construction site above the relevant environmental values and water quality objectives. Monitor and report on water quality in accordance with CEMP and Sub-plans.	Yes	Monitoring and reporting on groundwater and surface water quality was undertaken in accordance with RIS and TSD Water Quality Management Plans. RIS – No groundwater discharges occurred during June 2023. TSD – Active discharge of groundwater occurred from Roma Street, Albert Street, Woolloongabba and Boggo Road worksites. Monitoring results of groundwater quality prior to discharge is consistent with the pre-construction water quality levels. Refer to Appendix B (Table 6) for groundwater monitoring results. Surface water discharges occurred at the





			Northern Portal, Boggo Road and Southern Portal. The monitoring results demonstrated surface water discharges met project water quality discharge criteria. Refer to Appendix B (Table 7) for surface water monitoring results. Routine surface water monitoring occurred across both TSD and RIS projects. Refer to Appendix A (Table 10 and Section 3.1.14) and Appendix B (Section 3.5 and Table 9)
			for further details.
16.	Water resources – Evaluate potential impact, plan works, implement controls and monitor inflow of groundwater associated with drawdown.	Yes	RIS – There is no sustained groundwater extraction involved in the RIS scope of works so predictive modelling of groundwater drawdown is not required. Collection of hydrological data to model potential inflow rates into excavations during construction has been undertaken.
	associated with drawdown.		TSD – Inflow of groundwater into the worksites is being continuously monitored to validate the predictive modelling.
17.	Surface water – Must be designed to avoid inundation from stormwater due to a 2-year (6hr) ARI rainfall event and flood waters due to a 5-year ARI rainfall event and constructed to avoid afflux or cause the redirection of uncontrolled surface water flows, including stormwater flows, outside of worksites.	Yes	Contractors continue to consider this condition in their site planning and design.
18.	Erosion and sediment control – Provisions for erosion and sediment control must be consistent with the Guidelines for Best Practice Erosion and Sediment Control (International Erosion Control Association, 2008) and the Department of Transport and Main Roads' Technical Standard MRTS52.	Yes	Site specific ESC plans for all active work sites have been reviewed by the EM and implemented on site.
19.	Acid sulfate soils – managed as per the Queensland Acid Sulfate Soil Technical Manual.	Yes	Acid Sulfate Soil Management Plans have been prepared and implemented for all active worksites.





20.	Landscape and open space – general requirement to minimise impacts on landscapes and open space values and specific requirements around Victoria Park.	Yes	The construction of a temporary access road through Victoria Park was undertaken under a Heritage Exemption Certificate approved by the Department of Environment and Science (DES) on 24 June 2021. Consideration has been taken to minimise loss of trees and the area of park impacted during these temporary works.
21.	Worksite rehabilitation – worksites rehabilitated as soon as practicable upon completion of works or commissioning, and in consultation with Brisbane City Council.	N/A	N/A

Non-Compliance Events

There were no NCEs raised in June 2023.





Definitions

Acronym	Definition			
ARI	Average Recurrence Interval - The average or expected value of the periods between exceedances of a given rainfall total accumulated over a given duration.			
CEMP	Construction Environmental Management Plan			
CGCR	Coordinator-General's Change Report			
CRM	The Community Relations Monitor engaged in accordance with Imposed Condition 8			
Contractor	The contractors appointed to design, construct, and commission the Project			
Coordinator-General	The corporation sole preserved, continued, and constituted under section 8 of the SDPWO Act.			
CRR	Cross River Rail			
DES	Department of Environment and Science			
EIS	Environmental Impact Statement			
EM	The Environmental Monitor engaged in accordance with Imposed Condition 7			
ESC	Erosion and sediment control			
IECA	International Erosion Control Association			
Imposed condition/s	A condition/s imposed by the Coordinator-General under section 54B of the SDPWO Act for the Project			
MER	Monthly Environment Report			
MRTS52	Transport and Main Roads Specifications MRTS52 Erosion and Sediment Control			
NCE	Non-Compliance Event			
OEMP	Outline Environmental Management Plan			
Project	The Cross River Rail Project			
Project Works	As defined in the Imposed Conditions			
Proponent	The Cross River Rail Delivery Authority			
RfPC	Request for Project Change			
RIS	Rail, Integration and Systems			
SDPWO Act	State Development and Public Works Organisation Act 1971			
Sub-plan	Any sub-plan of the CEMP			
The Delivery Authority	The Cross River Rail Delivery Authority			
TSD	Tunnel, Stations and Development			





1. Introduction

1.1. Background

The Cross River Rail Project (the Project) is a declared coordinated project under the *State Development and Public Works Organisation Act 1971* (SDPWO Act). The CRR Environmental Impact Statement (EIS) was evaluated by the Coordinator-General who recommended the Project proceed, subject to Imposed Conditions and recommendations. Since the evaluation of the EIS, several Requests for Project Change (RfPC) submissions have been evaluated by the Coordinator-General. RfPC 13 was endorsed in March 2022 by the Coordinator-General.

The Coordinator-General has imposed conditions on the Project that apply throughout the design, construction, and commissioning phases. These are referred to as the Imposed Conditions. In addition, the Coordinator-General has approved the Project's OEMP which outlines the environmental management framework for the Project. The OEMP includes environmental outcomes and performance criteria which must be achieved for the Project.

Imposed Conditions 5 and 6 nominate the compliance and reporting requirements for the Project. This monthly report addresses these requirements.

1.2. Project Delivery

The Delivery Authority is responsible for planning and delivering the Project. The Project established environmental management plans and secured some of the secondary environmental approvals in addition to enabling works.

The two main delivery packages which require reporting under the Coordinator-General's imposed conditions are:

- Tunnel, Stations and Development (TSD) being delivered by CBGU JV; and
- Rail, Integration and Systems (RIS) being delivered by Unity Alliance.

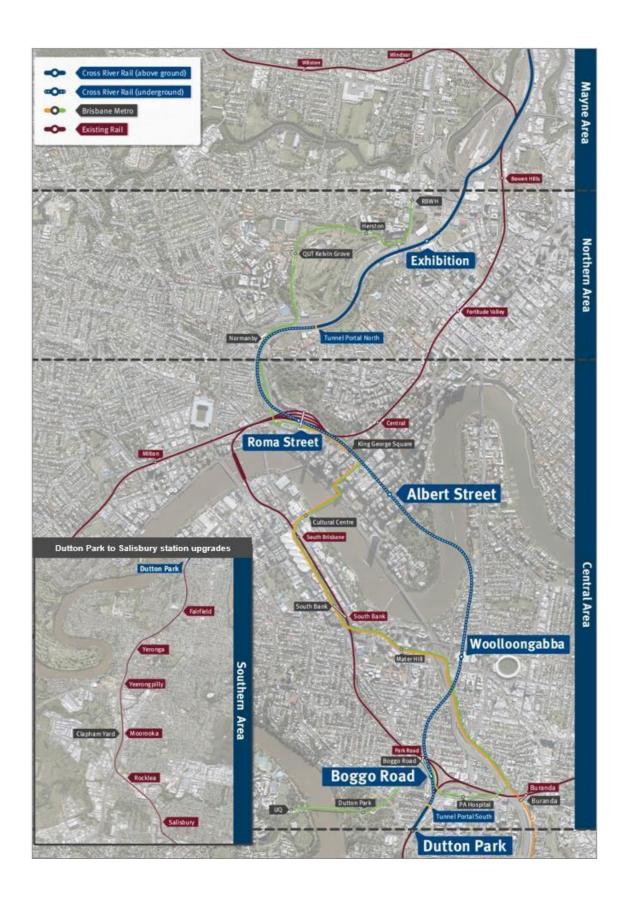
The Project is geographically divided into four areas:

- Mayne Area
- Northern Area
- Central Area: and
- Southern Area.

These areas and delivery packages are shown in the figure below.









1.3. Reporting Framework

This MER has been prepared to comply with Imposed Conditions 6 and 7 of the Coordinator-General Change Report (CGCR) and includes:

- monitoring data and associated interpretation of the results required by the imposed conditions and Construction Environmental Management Plan (CEMP);
- details of any NCEs, including incidents, corrective actions, and preventative actions; and
- details of any complaints, including description, responses, and corrective actions.

Reporting on environmental elements captured in each monthly environmental report, including the annual environmental report, is reviewed and endorsed by the EM.

1.4. Monthly Environment Report Endorsement

This MER has been endorsed by the EM and the endorsement provided to the Coordinator-General.

2. Compliance Review

This MER has been reviewed and endorsed by the EM as per Imposed Condition 7 of the CGCR.

2.1. Relevant Project Works

The following Project Works were undertaken in June 2023:

Area	Project Works
Mayne Area	 Mayne Yard North – Vehicle access road civil scope completed; and BR11/13 (road over rail bridge in Mayne North) structure completed.
	 Mayne Yard East / West – SCAS N-7A.1 entry road mods to QR's Maintenance Facilities commenced (Mayne Yard West); Shunter Shed and CER inground services commenced (Mayne Yard East);
	BR12 (pedestrian bridge from Bowen Hills Station to Mayne Yard West) final truss span installed.
Northern Area	 RNA/ Northern Corridor – Piling of Station and BR44 completed two weeks ahead of program; Station FRP commenced, lift shafts and stair foundations on track; Southern platform structural steel installed during EXT-019; First platform pour complete; EXT-019 SCAS successfully completed and some scope of EXT-20 completed ahead of schedule; Rock trimming under O'Connell Terrace completed; Bowen Bridge pier protection structure completed in EXT-19 SCAS; and Second area handed by TSD over to UNITY on 12 of May 2023. The handover has allowed the commencement of all works south of the Portal. Northern Portal – Physical works complete; QR pedestrian bridge removal – RIS scope on behalf of QR; and Open through bracket installations and ducting have been completed at the
Central Area	Dive. Roma Street – • Main Station Building Entry L2 slab 50% complete, verticals L2 to Roof ongoing,





- service installation progressing B4, B3 and RA3;
- QR Platform 2 canopy works complete, defecting ongoing, DA contractor progressing;
- M&E building works to roof level ongoing, services installation and fit outs progressing WSB basement levels including RA6, HV transformers installation progressing, HV cable works commenced and chillers delivered to position L2; and
- Cavern Precast Platform slabs and in-situ slab concrete commenced, BoH East and West services installation continues.

Albert Street -

- Lot 1 B7 suspended slab tables commenced installation, B9 level jump form system internal walls and core walls complete; pile toe walers removed for slip to progress
- Lot 2 Mezzanine span 1 to 9 complete, AS1 internal structure, B10 slab complete, and precast culvert installation ongoing; and
- Lot 3 Internal walls from B4 to B1 complete, relocating the placing boom from the B4 level to B1 upper is complete, and calbah stairs access removed.

Woolloongabba -

- Station Box span 5 mezz beams commenced, SW4 Arch FRP ongoing, SW5 infill Lift 6 south (complete) and north infill Lift 3 in progress and decline fill and lift shaft ongoing;
- BOH fit out M&E Services to Service Building continue across all levels of the building, chiller units landed on service building, EBD Riser Modules 1 and 2 installed and fitout works ongoing;
- Southern Cavern RIS rooms M&E fit out in progress, B4 RIS South cavern commenced, PSD Header steel to the southern cavern east side is complete, grouting in progress – ready for survey checks for PSD install and cable pulling to culverts ongoing; and
- North Cavern platform topping slabs North up to grid P17 and lift shaft based complete. Blockwork to B4 front of house commenced, services under platform ongoing and RIS room fitout ongoing to B6.

Tunnel fitout -

- Fitout work has continued in G2A, A2R and R2NP in MC01 and MC02;
- A2R MC01 Rising Main Brackets install complete;
- MC02 Hydrant Pipe install ongoing;
- G2A Rising main install ongoing in MC01. Walkway install ongoing in both MC01 & MC02:
- Fire rated Brackets install commenced in MC02; and
- R2NP Walkway Mesh install close to completion in MC01. Fire rated cable ladder complete in MC02. Leaky Feeder cable pulling resumed in MC02.

Boggo Road -

- Concrete to in-situ structure at 80% complete;
- Reinforcement to in-situ structure 79% complete;
- Mezzanine precast trusses 200 of 230 installed;
- Precast platform culverts and planks 457 of 461 installed;
- Super T's 37 of 39 installed;
- Goods Lift 2 install 30% complete; and
- M&E fitout commenced in northern Back of House.

Southern Portal -

- Internal tunnel roof soffit and concrete works in MC02 ongoing;
- Shotcrete of liner walls in open trough area ongoing;
- Firewall pours complete;
- Retention basin and outlet drainage works ongoing;
- Princess Alexandra Hospital (PAH) Bridge progressing abutment walls, piers and headstocks; and
- Shaft 3 asphalt works completed, sump shaft works ongoing with 6-12 cassion rings delivered on-site.





Southern Area

Southern / Dutton Park -

- Dutton Park Stage 3B Implemented in QR_066 (mid-June) which has resulted in the Down Suburban track being removed and allows access to commence construction of the centre platform area;
- Ongoing works for Platform 1 retaining walls on Cope St & station entry / walkway on Kent St;
- Platform 01 preparatory works for commencing platform slabs;
- Platform 02 excavation in readiness for installation of platform walls (installation unable to proceed as planned due to cancellation of RIS_084);
- Noise walls progress at Sampson St and Fenton St.

Fairfield station -

- Ongoing mechanical installation of Lift 1 for the pedestrian overpass (Lift 2 & 3 mechanically complete);
- Completion of bike shelter roofing, screens, services rough-in;
- Delivery and installation of all electrical boards and progress for terminations, testing, fit-out onsite;
- Delivery and installation of all comms, security system racks into CER and field cabinets and progress for terminations, testing, fit-out onsite;
- Continuation of Mildmay St & Equity St hardscaping (footpaths, bollards, seating); and
- Continuation of station building fit out works.

Yeronga station -

• Completion and certification of the station remains ongoing.

Clapham Yard -

- BR94 (Chale Street Bridge) RSS wall RW645 commenced; and
- Energex' HV cut over from Overhead to Underground completed.

Rocklea station -

- Shop drawings and fabrication in progress for steel items;
- Installation of platform 1 canopy structural steel, roofing (all available gridlines);
- Installation of Lift 2 structural steel, precast walls, precast roof;
- Installation of blockwork to the station buildings on Platform 2/3;
- Ongoing construction of retaining walls, foundations and slabs at station entrance:
- Delivery of new overpass modules and fit out (roofing, flooring, screens) in readiness for upcoming installation of the new overpass modules in QR_067 (July 15/16); and
- Upcoming removal of the existing overpass (footbridge and stairs) during QR_067 (July 15/16).

2.2. Key Environmental Elements

2.2.1. Noise

The Coordinator-General's conditions establish a framework for managing the impacts of noise. The Imposed Conditions do not establish noise limits. Compliance with the Imposed Conditions noise requirements involves demonstrating the implementation of the endorsed CEMP and associated Noise and Vibration Management Plan. This establishes the management measures to be applied which aims to achieve the identified noise goals as far as reasonably practicable. The CEMP also includes requirements for the provision of the required community notifications of upcoming work, potential impacts, and how the project team can be contacted in relation to any potential impacts.

For Project Works where potential noise impacts are modelled to be above the noise goal but below the noise goal plus 20dBA, this work is authorised where the endorsed CEMP and associated Noise

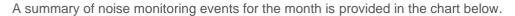


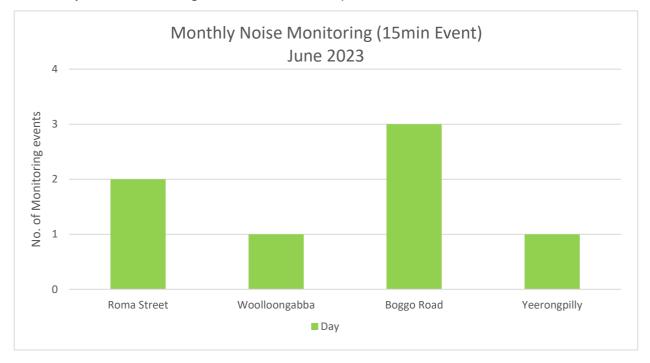
and Vibration Management Plan is being implemented, including communicating construction activities to potential and actual Directly Affected Persons (DAPs). For Project Works where potential noise impacts are predicted to be more than 20dBA above the relevant noise goal, specific engagement is required with DAPs for these works.

Where internal monitoring was not possible, contractors have undertaken external monitoring at nominated locations. To assess external monitoring and determine compliance with the project's noise requirements, the project applies recommended façade attenuation corrections, which considers receiver property type.

In the Central Area, noise monitoring was undertaken for model verification at Roma Street, Woolloongabba and Boggo Road. The TSD contractors reported that the project noise requirements have been met during this reporting month. Monitoring results for the Central Area are detailed in **Appendix B** (Table 3).

In the Southern Area, noise monitoring was undertaken for model verification at Yeerongpilly during the use of a woodchipper. The RIS contractor reported that project noise requirements have been met including advance notification and consultation with DAPs.





2.2.2. Vibration

In the Northern Area, vibration monitoring continued at the State heritage listed John MacDonald Stand inside a storeroom. The monitor was approximately 93m away from the 4.5T rock breaker/ hydraulic hammer which was being used for demolition of the stations' existing platform. The RIS contractor reported that the vibration requirements have been met and the monitoring results are as detailed in **Appendix A** (Table 5).

In the Central Area, vibration monitoring continued at the Roma Street site due to piling works occurring in close proximity to the heritage structure of Roma Street Station. All vibration monitoring adhered to the project requirements and is detailed in **Appendix B** (Table 2).





2.2.3. Air Quality

2.2.3.1. Dust Deposition

Dust deposition monitoring was conducted at Mayne, Northern, Central and Southern Areas. Results met the project air quality goal¹ for all active worksites.

The RNA dust deposition gauge was inaccessible due to an external RNA showgrounds event preventing access at the end of the measurement period. As a result, the measurement period exceeded the required exposure period by one day. Given the low result and the measurement period exceedance of less than 24 hours, the project CAQP has confirmed the data can be considered a fair representation of the dust deposition during the reporting period. This result is to be considered as indicative.

A summary of the dust deposition results for the month are in the table below.

Air Quality – Dust Deposition Monitoring						
Area	Worksite	Monitoring Location	Comments			
Mayne Area	Mayne Yard	Mayne Yard East	- Results met air quality goal			
Northern	RNA / Exhibition	RNA Showgrounds	- Result is indicative only but has met the air quality goal			
Area	Northern Portal	Northern Portal (near Brisbane Girls Grammar School)	- Results met air quality goal			
	Albert Street	Mary Street	- Results met air quality goal			
	Albert Street	Elizabeth Street	- Results met air quality goal			
	Boggo Road Southern Portal	Quarry Street (north of the site)	- Results met air quality goal			
Central		Peter Doherty Street/Leukemia Foundation	- Results met air quality goal			
Area		Dutton Park Station	- Results met air quality goal			
		PA Hospital - Central Energy Unit along Kent Street	- Results met air quality goal			
	Roma Street	Roma Street Station	- Results met air quality goal			
	Woolloongabba	Russian Orthodox Cathedral	- Results met air quality goal			
	Jolioongabba	Woolloongabba Busway	- Results met air quality goal			
Southern	Dutton Park	Dutton Park	- Results met air quality goal			
Area	Clapham Yard	Clapham Yard	- Results met air quality goal			

 $^{^{1}}$ CG air quality goal for dust deposition - $120\mu g/m^{2}$ (over an averaging period of 30 days).

2.2.3.2. Particulate Matter and Total Suspended Particulates

Monitoring for particulate matter (PM10) and total suspended particulates (TSP) was conducted at Northern, Central and Southern Area worksites. Results met the project goals at all active worksites.

In the Mayne Area, the Dust Monitor Pro (DMP) located at Mayne Yard East was due for its annual





calibration by the supplier. A total of four days of monitoring was recorded and reported before the monitor was removed from site. UNITY undertook an investigation to provide supplementary information to confirm the RIS scope of works has met the project outcomes set out by the CGCR and the OEMP. This consisted of investigating the scope of works, meteorological conditions, site observations and complaints received. The investigation confirmed that UNITY's scope of works and implementation of their Air Quality Management Plan has met the project outcomes. Refer to **Appendix A** (Figures 4 and section 3.1.11.2).

In the Central Area, the TSD contractor confirmed that the Boggo Road air quality monitoring unit experienced technical difficulties intermittently at the start of June resulting in no valid data recorded between 2 and 5 June 2023. As soon as practicable, the unit was inspected and the problem was resolved. The nearby (Woolloongabba) DES air quality monitoring station confirmed air quality levels below the air quality goals during this outage period. Refer to **Appendix B** (Table 5).

In the Southern Area, Clapham Yards' DMP did not record a sufficient volume of data to be considered valid over a three-day period between 7 and 9 June. As a result, UNITY undertook an investigation to provide supporting information validated by the CAQP to confirm the RIS scope of works has met the project outcomes set out by the CGCR and OEMP. The investigation consisted of a range of factors including current works on site and staging, implemented mitigation measures, meteorological conditions and if there were any air quality related complaints. The investigation confirmed that UNITY's scope of works and implementation of their Air Quality Management Plan has met the project outcomes set out by the Imposed Conditions. Refer to **Appendix A** (Figures 5 and section 3.1.11.3).

UNITY has confirmed that a long-term rectification strategy is underway and encompasses additional air quality modelling to determine if monitoring of particulates is required for current and future works and the installation of a brand new air quality monitor that is to be delivered to site and commissioned August 2023.

A summary of particulate monitoring is provided in the table below.

Air Quality	Air Quality – PM ₁₀ / TSP Monitoring						
Area	Worksite Monitoring Location Comments		Comments				
Marina	Mayne Yard	Mayne Yard North	Monitoring not required as per Project's CAQP advice.				
Mayne Area	Mayne Yard	Mayne Yard East	Results met air quality goals.DMP removed from site for annual calibration on 4 June 2023.				
Northern	RNA / Exhibition	RNA showgrounds	- Results met air quality goals.				
Area	Northern Portal	Brisbane Girls Grammar School	- Results met air quality goals.				
	Albert St	iStay River City and Capri (Corner of Mary Street and Albert Street)	- Results met air quality goals.				
Central Area	Boggo Rd / Southern Portal	North-east of Boggo Road worksite	- Results met air quality goals.				
	Woolloongabba	Place Park, Woolloongabba	- Results met air quality goals.				
Southern Area	Clapham Yard	Clapham Yard	 Results met air quality goals. No monitoring results reported between 7-9, June 2023. 				





2.2.4. Water Quality

Water quality monitoring and reporting was undertaken in accordance with the contractors CEMP and Water Quality Management Plans.

2.2.4.1. Surface Water

During June, active surface water discharges occurred in the Northern Area and Central Area. Post-rainfall water quality monitoring was not triggered.

In the Northern Area, water quality monitoring was triggered on twenty-four occasions from the Northern Portal worksite as water used for construction activities and stormwater was treated and actively discharged to the stormwater network. The TSD contractors confirmed the discharge criteria was met on all occasions. Refer to **Appendix B** (Table 8) for further details.

In the Central Area, water quality monitoring was triggered at Boggo Road on two occasions and Southern Portal on one occasion as water used for construction activities was treated and actively discharged to the stormwater network. The TSD contractors confirmed the discharge criteria was met on all occasions. Refer to **Appendix B** (Table 8) for further details.

Routine surface water monitoring was undertaken across both the RIS and TSD worksites during the reporting period. Results from the locations reflect the condition of the broader catchment upstream from the worksites. Refer to **Appendix A** (Table 10 and Section 3.1.14) and **Appendix B** (Table 8 and Section 3.5) for further details.

Surface water quality monitoring is summarised in the table below:

Surface W	Surface Water Quality Monitoring					
Area	Worksite	Discharge	Post-Rain Monitoring	Routine Monitoring	Comments	
Mayne Area	Mayne Yard North	No	No	Yes	ESC was implemented in accordance with site specific ESC Plan. Routine in-stream monitoring undertaken in accordance with WQMP.	
	Exhibition/ RNA	No	No	Yes	ESC was implemented in accordance with site specific ESC Plan. Routine in-stream monitoring undertaken in accordance with WQMP	
Northern Area	Northern Portal	Yes	No	Yes	 Active surface water discharge met water quality investigation criteria. Routine in-stream monitoring undertaken in accordance with WQMP 	
	Northern Corridor	No	No	N/A	- ESC was implemented in accordance with site specific ESC Plan.	
Central Area	Albert Street	No	No	Yes	Routine in-stream monitoring undertaken in accordance with WQMP	
	Boggo Road	Yes	No	Yes	- Routine in-stream monitoring undertaken in	





					accordance with WQMP. - Active surface water discharge met water quality investigation criteria. - Routine in-stream routine
	Roma Street	No	No	Yes	monitoring undertaken in accordance with WQMP.
	Woolloongabba	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.
					Active surface water discharge met water quality investigation criteria.
	Southern Portal	Yes	No	Yes	Routine in-stream monitoring undertaken in accordance with WQMP.
	Fairfield station	No	No	No	- ESC was implemented in accordance with site specific ESC Plan.
Southern	Clapham Yard	No	No	Yes	 ESC was implemented in accordance with site specific ESC Plan. Routine in-stream monitoring undertaken in accordance with WQMP.
Area	Rocklea station	No	No	Yes	 Routine in-stream monitoring undertaken in accordance with WQMP. ESC was implemented in accordance with site specific ESC Plan.

2.2.4.2. Groundwater

Groundwater discharge occurred at Albert Street, Boggo Road, Roma Street and Woolloongabba worksites. The groundwater discharge results exceeded relevant water quality objectives (WQO's)² for several water quality parameters. However, these results are consistent with the receiving environment baseline monitoring pre-construction data. The contractor confirmed no changes have occurred onsite to the construction methodologies that would have affected the groundwater results. Refer to **Appendix B** (Table 6) for further details.

There were no groundwater discharges at Mayne, Northern or Southern Area worksites.

Groundwater quality monitoring is summarised in the table below:





Groundwater Qua	ality Monitoring		
Area	Worksite	Discharge	Comments
Mayne Area	Mayne Yard North	No	- No groundwater discharges.
Northern Area	RNA/Exhibition	No	- No groundwater discharges.
	Northern Portal	No	- No groundwater discharges.
	Albert Street	Yes	Discharge of groundwater met Project requirements
Central Area	Boggo Road / Southern Portal	Yes	Discharge of groundwater met Project requirements
Central Area	Roma Street	Yes	Discharge of groundwater met Project requirements
	Woolloongabba	Yes	- Discharge of groundwater met Project requirements
Southern Area	Clapham Yard	No	- No groundwater discharges.

² The Brisbane River Estuary environmental values and water quality objectives (Basin no 143 – mid-estuary) in the Environmental Protection (Water) Policy 2009

2.2.5. Erosion and Sediment Control

Site specific Erosion and Sediment Control (ESC) Plans have been prepared, updated, and implemented at Mayne Yard, Northern Portal, RNA Showgrounds, Roma Street, Albert Street, Woolloongabba, Boggo Road, Southern Portal, Dutton Park, Fairfield, Yeronga, Clapham Yard and Rocklea worksites.

2.3. Complaints Management

A total of six complaints were received during the month, of which five were project related.

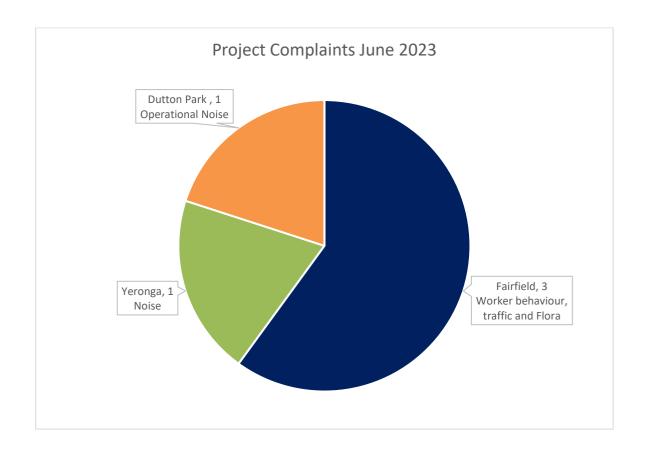
RIS works received five complaints during June relating to noise at Yeronga, worker behaviour, traffic and flora at Fairfield and operational noise at Dutton Park. For further details and breakdown of complaints, refer to **Appendix A** (Table 3).

The TSD works received zero complaints related to project works during June. One dust complaint was received at Woolloongabba, however an investigation confirmed that the generation of dust was not from the project site and that the works are of low risk of generating dust emissions. The complaint was confirmed to be not project related.

The Project Works complaints summary for the month is provided in the following chart.







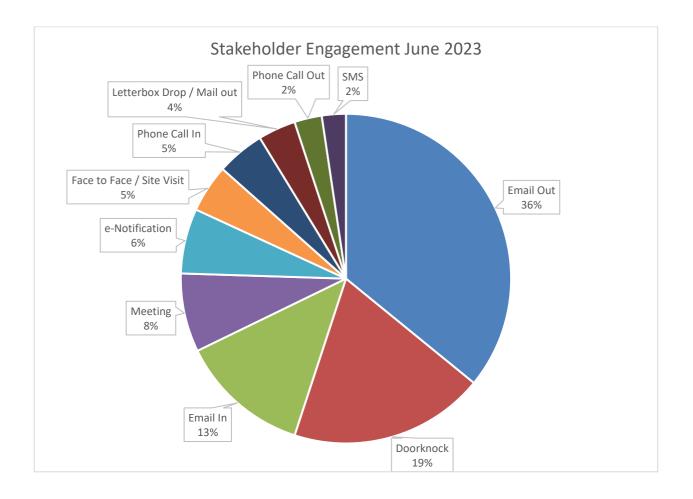
When attended noise monitoring was undertaken in response to a complaint, the contractor confirmed on all occasions that works undertaken at the time of the complaint adhered to project requirements. In some instances, previously attended noise monitoring data, representative of the relevant construction activities was used to confirm the works adhered to the project noise requirements.

To close out a complaint, the monitoring data is reviewed (where applicable) against compliance with the CEMP, site environmental management plans and permits, and checks that required community notification has taken place. Contractors have also confirmed that planned mitigation to reduce the impact was implemented. This is reviewed together to verify if project requirements have been met.

For scheduled out of hours works, community notification was provided, as well as regular project updates. Stakeholder engagement undertaken on the project during the month is summarised in the chart below.







2.4. New Upcoming Project Works

The key new planned Project Works for the coming months include:

Area	New planned works in the coming months
Mayne Area	Mayne Yard North – Surcharge Load Stage 2 placement (CRR-Lines embankment); and BR08 (Breakfast Creek Bridge) temporary jetty removal.
	 Mayne Yard East / West – Handover of Vehicle Access Road to QR (north of Ferny Grove Flyover); and BR12 (QR pedestrian bridge to Mayne West) complete structural steel and stair installation.
Northern Area	 RNA / Exhibition – Structural Steel installation of plaza in EXT-20; Installation of underslung services; and Ongoing FRP on BR44 piers and inground services including electrical, comms, stormwater, server, and wet fire. Northern Corridor – BGG pedestrian bridge removal in EXT-20 SCAS; CSR, TFR and drainage scope in Norther Portal area; Complete all earthworks for RIS-N-10 TtO Stage in EXT-20 SCAS; and Ground retention along arrival platform Ekka Station. Northern Portal – Final inspection of landscaping works by BCC and Victoria parklands; Overhead beams installation; and Electrification screens installation.





Central Area

Roma Street -

- Station box Level 2 slab reinforcement installation south;
- Station box B2 to B4 service installation;
- East and West BoH room fitout within the cavern; and
- M&E Services Building Level 3.5 deck installation.

Albert Street -

- Lot 1 slip 13 FRP works upcoming and internal jump form system assembly;
- Lot 2 completion of AS1 shaft FRP works and southern Back of House (BoH) structure; and
- Lot 3 internal lift core 1 & 2 jump 9 of 11 and perimeter wall jump pours ongoing.

Woolloongabba -

- Steel fixing for SW4 arch to commence;
- Escalators installation ongoing;
- Saccardo nozzles for south cavern installation;
- Shoring/propping towers to be lowered down to station box to assist with installing Span 5 mezz beams in station box; and
- Telstra comms pit on Main St footpath to be constructed after the Energex pit is completed.

Boggo Road -

- Ongoing precast platform culverts and vierendeel truss installation;
- Perimeter and internal wall FRP works, including topping slab works; and
- Pulling cables to the HV room.

Southern Portal -

- Boggo Road south last deck units to be installed;
- Ongoing liner wall FRP works;
- Western and eastern abutment construction; and
- Ongoing sewer works at Dutton Street.

Southern / Dutton Park -

- Ongoing works for Platform 1 retaining walls on Cope St and station entry/ walkway on Kent St;
- Platform 1 commencement of platform slabs;
- Platform 2 installation of platform walls; and
- Noise walls installation progressing at Sampson St and Fenton St.

Southern Area

Fairfield Station -

- Ongoing mechanical installation of Lift 1;
- Continue progressing terminations, testing and fit-out onsite;
- Continue deliveries and installation of all coms, security systems racks into CER;
- Continuation of Mildmay St & Equity St hardscaping;
- Continuation of station building fit out works; and
- QR Carpark construction on Equity St.

Yeronga Station -

Completion and certification of the station remains ongoing.

Clapham Yard -

- Aurizon fence (on top of RW650); and
- Driveways and stone pitching along Fairfield Road.

Rocklea Station -

- Demolition of existing pedestrian overpass;
- Installation of new pedestrian overpass modules and fit out; and
- Ongoing construction of retaining walls, foundations and slabs at station entrance.

2.5 Non-Compliance Events

No new NCEs were raised this month. The summary of NCEs to date is shown in the table below.





Status	Date of Event	Category	Area as on the Report	Relevant Condition	Gate 1	Gate 2	Gate 3	Gate 4
□ Open								
□ Closed								
CRRDA-001-RIS-001	9/11/19	Noise	Yeronga Station	4, 10, 11	10/11/19	14/11/19	26/11/19	18/12/19
CRRDA-002-TSD-001	27/03/20	ESC	Woolloongabba	4, 15, 18	30/03/20	31/03/20	22/04/20	11/06/20
CRRDA-003-TSD-002	27/03/20	ESC	Boggo Rd	4, 15, 18	30/03/20	31/03/20	22/04/20	11/06/20
CRRDA-004-TSD-003	28/03/20	Traffic	Boggo Rd	4, 10, 14	30/03/20	31/03/20	22/04/20	11/06/20
CRRDA-005-TSD-004	27/03/20	Reporting	Multiple sites	4, 6, 11, 13	30/03/20	31/03/20	22/04/20	11/06/20
CRRDA-006-TSD-005	27/03/20	Air Quality	Multiple sites	13	30/03/20	31/03/20	22/04/20	11/06/20
CRRDA-009-RIS-003	6/05/22	ESC	Clapham Yard	4, 15, 18	28/10/22	28/10/22	12/12/22	12/12/22
CRRDA-010-RIS-004	10/05/22	Potential Acid Sulphate Soils Management	Clapham Yard	4, 19	28/10/22	28/10/22	12/12/22	12/12/22
☐ Withdrawn								
CRRDA-007-RIS-002	1/04/20	Air Quality	Multiple sites	13	28/04/20	30/04/20	Withdrawn	
CRRDA-008-TSD-006	8/04/20	Working Hours	Roma Street	4,10	28/04/20	30/04/20	Withdrawn	





Appendix A RIS Monthly Report





Monthly CGCR Report June 2023

Cross River Rail – Rail, Integration and Systems Alliance





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1 Progress Summary - Relevant Project Works

The following Project Works were undertaken during the reporting period:

Table 1: Summary of Project Works completed during the reporting period

Table 1: Summary	of Project Works completed during the reporting period
Area	Project Works
Mayne Area	Mayne Yard North
Northern Area	 Vehicle access road civil scope completed (Mayne North, FGFO to RTCB) BR11/13 (road over rail bridge in Mayne North) structure completed. Mayne Yard East / West SCAS N-7A.1 entry road mods to QR's Maintenance Facilities commenced (Mayne West) Shunter Shed and CER inground services commenced (Mayne East) BR12 (pedestrian bridge from Bowen Hills Station to MY-West) final truss span installed. RNA / Exhibition
	 Piling of Station and BR44 completed two weeks ahead of program Station FRP commenced, lift shafts and stair foundations on track Southern platform structural steel installed during EXT_019 First platform pour complete. Northern Corridor EXT-019 SCAS successfully completed and some scope of EXT-20 completed ahead of schedule Rock trimming under O'Connell Terrace completed. Bowen Bridge pier protection structure completed in EXT-19 SCAS. Second area handed by TSD over to UNITY on 12 of May 2023. The handover has allowed the commencement of all works south of the Portal. TSD still have some defect works that are being completed south of the Portal, but UNITY is working around these works.
Southern Area	 Dutton Park Stage 3B Implemented in QR_066 (mid-June) which has resulted in the Down Suburban track being removed and allows access to commence construction of the centre platform area. Ongoing works for Platform 1 retaining walls on Cope St & station entry / walkway on Kent St Platform 01 – preparatory works for commencing platform slabs Platform 02 – excavation in readiness for installation of platform walls (installation unable to proceed as planned due to cancellation of RIS_084 Noise walls progress at Sampson St and Fenton St.
Southern Area	 Fairfield Station Ongoing mechanical installation of Lift 1 for the pedestrian overpass (Lift 2 & 3 mechanically complete). Completion of bike shelter roofing, screens, services rough-in. Delivery and installation of all electrical boards (excl MSB) and progress for terminations, testing, fit-out onsite. Delivery and installation of all comms, security system racks into CER and field cabinets and progress for terminations, testing, fit-out onsite. Continuation of Mildmay St & Equity St hardscaping (footpaths, bollards, seating). Continuation of station building fit out works.
Southern Area	 Yeronga Station Completion and certification of the station remains ongoing.
Southern Area	 Clapham Yard BR94 (Chale Street Bridge) RSS wall RW645 commenced Energex' HV cut over from Overhead to Underground completed.



Area	Project Works
Southern Area	Rocklea Station
	 Shop drawings and fabrication in progress for steel items
	 Installation of platform 1 canopy structural steel, roofing (all available gridlines)
	 Installation of Lift # 2 structural steel, precast walls, precast roof
	 Installation of blockwork to the station buildings on Platform 2 / 3
	 Ongoing construction of retaining walls, foundations and slabs at station entrance
	 Delivery of new overpass modules and fit out (roofing, flooring, screens) in readiness for upcoming installation of the new overpass modules in QR_067 (July 15/16)
	 Upcoming removal of the existing overpass (footbridge and stairs) during QR_067 (July 15/16).

Acronyms:

CIP - Cast in Situ Piles

CSR - Combined Services Route

DL - Drainage Line

FRP - Form Reo Pour

HV – High Voltage

OHLE - Overhead Line Equipment

OTV - On Track Vehicle

PUP - Public Utility Plant

RNA - Royal National Agricultural and Industrial Association of Queensland

R&R - Remove and Replace

RSS - Reinforced Soil Slopes

RW - Retaining Wall

SCAS - Scheduled Corridor Access Schedule

UTX - Under Track Crossing



The following table summarises the upcoming Project Works:

Table 2: Summary of upcoming Project Works

Area	Project Works								
	Mayne Yard North								
Mayne Area									
	 Surcharge Load Stage 2 placement (CRR-Lines embankment) BR08 (Breakfast Creek Bridge) temporary jetty removal 								
	Mayne Yard East / West								
	Handover of Vehicle Access Road to QR (north of Ferny Grove Flyover)								
	 BR12 (QR pedestrian bridge to Mayne West) complete structural steel and stair installation. 								
Northern Area	RNA / Exhibition								
	Structural Steel installation of plaza in EXT-20								
	 Installation of underslung services 								
	 Ongoing FRP on BR44 piers and inground services including electrical, comms, stormwater, server, and wet fire. 								
	Northern Corridor								
	 BGG pedestrian bridge removal in EXT-20 SCAS 								
	 CSR, TFR and drainage scope in Norther Portal area 								
	Complete all earthworks for RIS-N-10 TtO Stage in EXT-20 SCAS								
	Ground retention along arrival platform Ekka Station.								
Southern Area	Southern Portal / Dutton Park								
	 Ongoing works for Platform 1 retaining walls on Cope St and station entry/ walkway on Kent St 								
	 Platform 1 commencement of platform slabs 								
	Platform 2 installation of platform walls								
	 Noise walls installation progressing at Sampson St and Fenton St. 								
Southern Area	Fairfield Station								
	Ongoing mechanical installation of Lift 1								
	 Continue progressing terminations, testing and fit-out onsite 								
	 Continue deliveries and installation of all coms, security systems racks into CER 								
	Continuation of Mildmay St & Equity St hardscaping								
	Continuation of station building fit out works								
	QR Carpark construction on Equity St.								
Southern Area	Yeronga Station								
	 Completion and certification of the station remains ongoing. 								
Southern Area	Clapham Yard								
	 Aurizon fence (on top of RW650) 								
	Driveways and stone pitching along Fairfield Road.								
Southern Area	Rocklea Station								
	 Demolition of existing pedestrian overpass 								
	 Installation of new pedestrian overpass modules and fit out 								
	 Ongoing construction of retaining walls, foundations and slabs at station entrance. 								



2 Complaints

The below section summarises the complaints relating to the Project Works to be reported in accordance with Imposed Condition 6(b)(iii).

Table 3: Summary of Complaints

Date Received	Location	Issue	Project Works / Activity source of the concern	Reporting Period	Complaint Detail	Unity Response	Status
02 June 2023	Yeronga	Noise	Station upgrade works	June 2023	Stakeholder requested to know when the noise barrier will be reinstated at the QR access gate on Dublin Street. The stakeholder also enquired about house washing following completion of the station upgrade.	The team provided an update on upcoming works at Dublin Street and the expected completion date for the noise barrier wall. The team are also investigating house washing for the affected stakeholder.	Open
07 June 2023	Fairfield	Worker behaviour	Station upgrade works	June 2023	Stakeholder advised a member of the workforce was smoking on the platform in the vicinity of members of the public.	The team advised they had passed on their complaint to the Site Supervisor to address with the workforce.	Closed
18 June 2023	Fairfield	Traffic	Station upgrade works	June 2023	Stakeholder complained about the continual Equity Street road closure.	Team advised when the road closure is due to finish and explained why the road closure was required for the station upgrade works.	Closed
23 June 2023	Fairfield	1 3		Stakeholder complained about the planned tree removal on Equity Street.	Team advised that the introduced species was required to be removed as the car park cannot be constructed without damaging the roots. The Project Arborist advised that the root damage would undermine the structural integrity of the tree and would become a safety risk. Team advised that the tree would be replaced with a mature native in the vicinity to avoid future root damage.	Closed	
25 June 2023	Dutton Park	Operational noise	Rail corridor upgrade works	June 2023	Stakeholder complained about noise coming from the realigned track that was laid during the extended Easter SCAS.	Team advised they will forward their complaint to the track team and Queensland Rail and provide an update ASAP.	Closed



3 Environmental Monitoring Results

The below section summarises the monitoring results to be reported in accordance with Imposed Condition 6(b)(i).

Acoustics

Imposed Condition 11(b) requires that during construction, monitoring and reporting on noise and vibration in accordance with the Noise and Vibration Management Plan, a sub-plan of the Construction Environmental Management Plan (C-EMP) occurs.

3.1.1 Noise Monitoring

Attended noise monitoring was triggered based on the predictive noise assessments for the Relevant Project Works during the reporting period.

Complaint-based noise monitoring because of Project Works was not triggered during the reporting period.

3.1.2 Noise Monitoring Results



Table 4 Summary of Noise Monitoring Data

Location	Receiver Type Details	Type of Monitoring	Work Hours	Monitoring date and time	Noise Type	Purpose of Monitoring	Predictive model (dBA)	Performance Goal 1 (dBA) (Condition 11(a), Table 2, LA _{10/eq} noise goals)	Performance Goal 2 (dBA) – (Condition 11(c), Table 2 LA ₁₀ noise goal + 20dBA))	Measured LA ₁₀ (dBA)	Measured LA _{eq} (dBA)	DAP engagement prior to works	Is performance Goal exceeded?	Comments For interpretation, please refer to section Error! Reference source not found.
Yeerongpilly Station	Residential	Attended - Outdoors	Standard hours & Extended hours	Saturday, 17 June 2023 08:27 AM	Intermittent	Model Verification	81 dBA	Standard hours 65 dBA Extended hours 52 dBA	Standard hours 85 dBA Extended hours 72 dBA	83 dBA	81 dBA	Yes Case by case consultation & Generic notification	Yes – Standard hours Goal 1 only Extended hours Goal 1 & 2	Monitoring was completed around 13m away from the Works area. The closest residential receiver was approximately 19m from the Works. A woodchipper was the dominant noise source. Monitoring was assessed against the standard and extended hours performance goals as the Works were required to be completed on Sunday dayshift. The monitoring was completed during standard hours. Monitoring was undertaken to validate the predictive noise model as this activity had found not been previously monitored in this location. Works are compliant with CG condition 11(c) as advance notification and consultation was undertaken with DAPs.

- Note 2 of Imposed Condition 11 Table 2 states Where internal noise levels are unable to be measured or monitored, the typical noise reductions presented in Guideline Planning for Noise Control, Ecoaccess, DEHP, January 2017 (PFNC) apply.
- The monitoring was undertaken to validate the model therefore external noise measurements are appropriate to determine the impact of construction noise.
- Note (2) Façade Attenuation
 - Note 2 of Imposed Condition 11 Table 2 states Where internal noise levels are unable to be measured or monitored, the typical noise reductions presented in Guideline Planning for Noise Control, Ecoaccess, DEHP, January 2017 (PFNC) apply.
 - The PFNC guideline can no longer be accessed. The Department of Environment and Science (DES) website still states this guideline is under review and is yet to release an alternative guideline
 - Former revisions of the PFNC table 7 stated the following regarding typical noise reductions through the building façade:
 - 5 dB Window wide open10 dB Partially closed
 - 20 dB Single glazed, closed
 - 25 dB Thermal double glazing, closed
 - The RfPC-4 Technical Report considered that all receptors had <u>closed</u> external single glazing for the assessment of construction noise impacts.
 - The Queensland Ombudsman assessed this assumption for the Airport Link Project and recommended that 10dB be adopted for major infrastructure projects in Queensland¹.
 - Additionally, several acoustic studies have shown that 10 dB is a suitable assumption for open windows. Most importantly this requirement only applies to temporary rail works within the project footprint and does not apply to long-term operational rail noise exposure.
 - Accordingly, it is considered appropriate to consider a 10 dB reduction on this basis. This assumption can be used for predictive modelling and for noise measurements, where indoor noise measurements are not practicable.

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² Refer to the waterways and water quality management plan, a C-EMP sub-plan for details of derivation of the discharge criteria



3.1.3 Vibration Monitoring

Vibration monitoring to validate the predictive model was triggered for:

• The use of a hydraulic hammer (4.5T) at the redundant Exhibition Station (RNA) in proximity to State heritage listed buildings (John MacDonald Stand).

The results are presented in the below Table.

Complaint-based vibration monitoring was not triggered. No complaints related to vibration were received during the reporting period.

Vibration monitoring to address property damage was not triggered by the predictive assessment.

3.1.4 Vibration Monitoring Results

Table 5 Summary of Vibration Data

Location	Date (Start and Finish)	Time of day	Closest DAP / Sensitive Place	Receiver Type (table 3 – Imposed Condition 11(e))	Purpose of Monitoring	Vibration intensive equipment	Maximum predicted vibration level	Shortest distance between Equipment and Sensitive Place @Time of Monitoring"	Maximum recorded vibration level	Vibration goal for receiver	Exceedance of vibration limit?	Comments
John MacDonald Stand	01/06/2023 to 30/06/2023	24 hours/ 7days	John MacDonald Stand	Heritage – DIN4150 Group 3	Construction Monitoring at Sensitive Places – Model Verification	4.5T rock breaker/ hydraulic hammer	1.3mm/s	46m	0.3mm/s	3mm/s State heritage building	No	Monitor was installed at the John MacDonald Stand within a storeroom at the building's foundation. The monitor was approximately 93m away from the hammer (predicted 0.6mm/s) and the closest point of the John MacDonald Stand from the hammering was 46m (predicted 1.3 mm/s). The recorded peak of 0.3mm/s can be attributed to the hammer being used during the demolition of the existing arrivals platform (only used over a three-day period.



3.1.5 Interpretation

The RIS scope of works continues to achieve the outcomes set out by the Imposed Conditions and OEMP.

3.1.6 Noise Monitoring

3.1.6.1 Model Verification

Noise monitoring for model verification was triggered during the reporting period for the use of a woodchipper for tree felling.

The tree felling was undertaken as part of the early works for the Station Upgrade of Yeerongpilly station during a weekend SCAS.

Predictive modelling anticipated a noise level of 81dBA LA₁₀ (external). Attended outdoors noise monitoring confirmed there was a 2dBA variance between the predicted and actual noise level.

Despite the exceedance of the noise goal, UNITY undertook advance notification and consultation with DAPs. Therefore, the Works are compliant with CG condition 11(c).

The RIS scope of works continues to achieve the outcomes set out by the CGCR and OEMP.

3.1.7 Vibration Monitoring

3.1.7.1 Model Verification

3.1.7.1.1 John MacDonald Stand Results

Vibration monitoring during arrivals platform demolition at the redundant Exhibition station (RNA) was undertaken at the foundation of the State heritage John MacDonald StaAnd inside a storeroom. This location was selected based on the outcomes of predictive assessments.

Demolition of the platform was undertaken as part of Stage 3 demolition works. The peak reading of 0.3mm/s is attributed to the platform demolition. As the predictive model was validated for the monitors location (approximately 93m away), the predicted vibration level for the closest point of the John MacDonald Stand façade (approximately 46m away) is considered accurate (predicted 1.3mm/s).

No exceedances of the revised vibration goal (3 mm/s) were recorded.

The RIS scope of works achieved the outcomes set out by the CGCR and OEMP.

Air Quality

Imposed Condition 13(b) requires that during construction, monitoring, and reporting on air quality in accordance with the Air Quality Management Plan, a sub-plan of the C-EMP occurs.

Visual monitoring was undertaken during routine environmental inspections. A total of 36 inspections were undertaken by the Environment Team across Mayne Yard, RNA Showgrounds, Northern Corridor, Southern Area, Fairfield station, Yeronga station, Clapham Yard and Rocklea station.

UNITY has installed the following air quality monitoring devices, therefore data collected from these devices, when active, is reported on in the monthly report regardless of the Project Works occurring.



Table 6 Summary of Air Quality monitoring devices

Monitoring Device Installed by UNITY	Area	Name	Date Installed	Status for the Reporting Period
Dust Deposition Gauge	RNA Showgrounds	AQ-01	13 December 2019	Active
Dust Deposition Gauge	Mayne Yard (Eastern Air Shed)	AQ-04	13 February 2020	Active
Dust Deposition Gauge	Clapham Yard (Eastern Air Shed)	AQ-06	1 February 2021	Active
Dust Deposition Gauge	Yeronga station	AQ-07	12 August 2021	Inactive DDG was decommissioned on 10 December 2021 following the completion of earthworks
Dust Deposition Gauge	Dutton Park	AQ-08	8 July 2022	Active
TSP / PM ₁₀ Monitor	Mayne Yard North (Eastern Air Shed)	Mayne Yard North	26 August 2022	Inactive as of 11 May 2022 CAQP confirmed that the Mayne Yard DMP can be temporarily decommissioned following the completion of Mayne Yard North earthworks. DMP was reinstated for Mayne Yard East Works on 26 August 2022 – see below.
TSP / PM ₁₀ Monitor	Mayne Yard East (Eastern Air Shed)	Mayne Yard East	26 August 2022	Partially active during reporting period. DMP was sent out for annual calibration to the supplier in NSW on 5 June 2023.
TSP / PM ₁₀ Monitor	Clapham Yard (Eastern Air Shed)	Clapham Yard	9 August 2021	Partially active during reporting period. Three days of insufficient data recorded from 7 – 9 June 2023 due to inclement weather.
TSP / PM ₁₀ Monitor	RNA (Western Air Shed)	RNA	25 August 2020	Active during reporting period.

3.1.8 Dust results

As passive dust deposition gauges (DDG) are analysed monthly, results span:

- Mayne Yard, Dutton Park and Clapham Yard:
 - 10 May 2023 to 09 June 2023
- RNA:
 - 10 May 2023 to 12 June 2023

The results are detailed below and compared against Imposed Condition 13(b).

Table 7 Dust deposition gauge results for the reporting period

CGCR Goal (mg/m²/day)	AQ-01 - RNA Showgrounds (mg/m²/day)	AQ-04 Grafton Street (E Mayne) (mg/m²/day)	AQ-06- Clapham Yard (mg/m²/day)	AQ-08 – Dutton Park (mg/m²/day)
120	40*	33	33	50
Total Rainfall during Period (mm)	2.0 mm	2.7 mm	1.8 mm	0.4 mm



*Results are indicative only

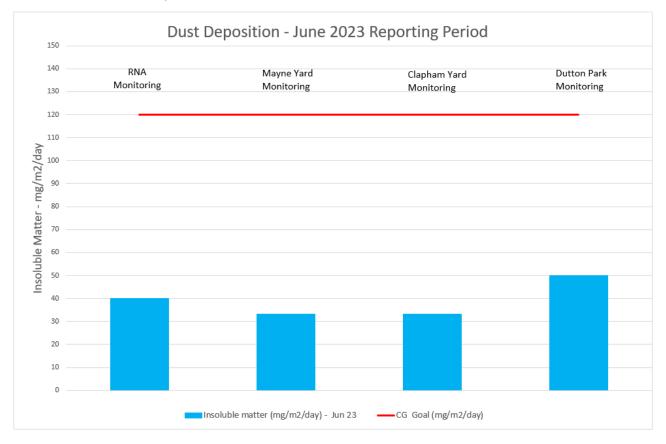


Figure 1 Air Quality Monitoring (Deposited Dust) Results

3.1.8.1 RNA Indicative Result

During the reporting period the RNA DDG was inaccessible due to an external RNA Showgrounds event preventing access at the end of the measurement period.

The measurement period exceeded the AS/NZS 3580 required exposure period (30 days \pm 2 days) by one (1) day. Given the low result and that the measurement period exceeded the standard by only 24 hours, the Project CAQP has confirmed the data can be considered a fair representative of the dust deposition during the reporting period.

As no exceedances of the dust deposition goal were recorded during the reporting period, the Project continues to meet their requirements under Imposed Condition 13 and the OEMP.

3.1.9 Particulates Results

3.1.9.1 Air Quality Monitoring Stations

UNITY had one (1) active and one partially active air quality monitoring stations and one (1) station out for annual calibration in place for the reporting period as detailed in Table 6.

3.1.9.2 Monitoring Results – Reporting Period

External ambient air quality data was collected for total suspended particles (TSP), and particulate matter less than 10 μ m (PM₁₀).

TSP is one of the indicators for which the Coordinator-General has imposed a goal of 80 μ g/m3 (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).



 PM_{10} is one of the indicators for which the Coordinator-General has imposed a goal of 50 μ g/m3 (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).

These stations have been installed on-site as per AS/NZS 3850 1.1 following consultation with UNITY air quality professionals. The results are represented in the below figures.

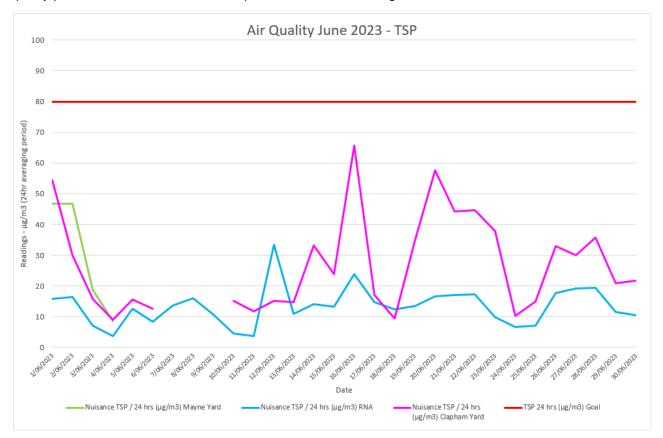


Figure 2 Air Quality Monitoring (TSP) Results



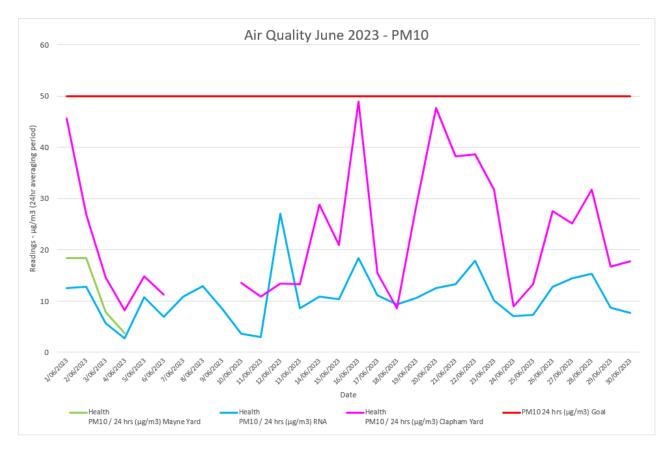


Figure 3 Air Quality Monitoring (PM10) Results

3.1.10 Monitoring Results – Annual Averaging

Imposed Condition 13 (a) sets annual average air quality goals for TSP (Human health) and PM_{10} (Human health).

The below table summarises where TSP and PM₁₀ monitoring have been carried out over the last 12 months.

The National Environment Protection (Ambient Air Quality) Measure Technical Paper No.5 provides guidance and procedures for uniform data recording and handling.

(https://www.nepc.gov.au/system/files/resources/9947318f-af8c-0b24-d92804e4d3a4b25c/files/aagprctp05datacollection200105final.pdf).

For air quality data to be officially reported, as per section 4.5 of Technical Paper No. 5, the minimum data capture would be 75% of the year or 274 days.

"It is essential that data loss is kept to an absolute minimum. For representative monitoring data and for credible compliance assessment it is desirable to have data capture rates higher than 95%. 75% data availability is specified as an absolute minimum requirement for data completeness".

In some instances, Relevant Project Works, which triggered TSP and PM₁₀ monitoring was carried out for less than 274 days (e.g., at the Northern Corridor). In such instances the annual averages are still reported but are indicative only as data capture did not meet the 75% data capture requirements of *National Environment Protection (Ambient Air Quality) Measure Technical Paper No. 5 – Data Collection and Handling.*



Table 8 Summary of Air Quality Monitoring Devices Over 12 months

Monitoring Device Installed by UNITY	Area	Date Installed	Date Decommissioned	Number of days data was captured over 365 days period	Data capture over an annual period	Annual performance reporting
TSP / PM ₁₀ Monitor	Northern Corridor (Eastern Air Shed)	23 April 2020	13 January 2021	260 over 365 days	71% over 365 days	Indicative only Data capture did not meet the minimum data capture requirements
TSP / PM ₁₀ Monitor	Mayne Yard North (Eastern Air Shed)	23 April 2020	11 May 2022	Period 1 (to 23 April 2021) 358 over 365 days Period 2 (24 April 2021 to 25 April 2022) 364 over 365 days Period 3 (26 April 2022 to 11 May 2022) 3 days over 47 days	Period 1 98% over 365 days Period 2 99% Over 365 days Period 3 17% Over 47 days	Applicable for Period 1 Data capture met minimum data capture requirements Applicable for Period 2 Data capture has met minimum data capture requirements Applicable for Period 3 Data capture has not met minimum data capture requirements
TSP / PM ₁₀ Monitor	Mayne Yard East (Eastern Air Shed)	26 August 2022	Not yet decommissioned	Period 1 (Started 26 August 2022) 211 days over 280 days	Period 1 75% Over 280 days	Not yet applicable for Period 1 Data capture has not yet met minimum data capture requirements



Monitoring Device Installed by UNITY	Area	Date Installed	Date Decommissioned	Number of days data was captured over 365 days period	Data capture over an annual period	Annual performance reporting
TSP / PM ₁₀ Monitor	RNA (Western Air Shed)	11 June 2020	Not yet decommissioned	Period 1 (to 11 June 2021) 314 over 365 days Period 2 (12 June 2021 to 12 June 2022) 290 over 365 days Period 3 (Started 13 June 2022) 310 over 365 days Period 4 (Started 14 June 2023) 17 over 18 days	Period 1 86% over 365 days Period 2 79% Over 365 days Period 3 85% Over 350 days Period 4 94% Over 18 days	Applicable for Period 1 Data capture met minimum data capture requirements Applicable for Period 2 Data capture met minimum data capture requirements Applicable for Period 3 Data capture met minimum data capture requirements Not yet applicable for Period 4 Data capture has not yet met minimum data capture requirements Not yet applicable for Period 4 Data capture has not yet met minimum data capture requirements
TSP / PM ₁₀ Monitor	Clapham Yard (Eastern Air Shed)	1 February 2021	Not yet decommissioned	Period 1 (to 31 January 2022) 326 over 364 days Period 2 (01 February 2022 to 31 January 2023) 190 over 365 days Period 3 (started 01 February 2023) 98 over 150 days	Period 1 90% over 364 days Period 2 57% Over 365 days Period 3 65% Over 150 days	Applicable for Period 1 Data capture met minimum data capture requirements Applicable for Period 2 Data capture did not meet the minimum data capture requirements Not yet applicable for Period 3 Data capture has not yet met the minimum data capture requirements

The below table summarises the applicable and indicative annual data results for TSP and PM_{10} against the performance goals imposed under Condition 13(a). Results in italic are indicative only.



Table 9 Annual Performance Results

Air Goal Quality Indicator	Period	Northern Corridor	Mayne Yard North	Mayne Yard East	RNA	Clapham Yard
TSP 90 μg/m ³	Period 1	8 μg/m³	11 μg/m ³	Not yet applicable	18 μg/m ³	8 μg/m³
	Period 2	-	10 μg/m ³	-	15 μg/m³	16 μg/m ³
	Period 3	-	Not applicable	-	13 µg/m³	Not yet applicable
	Period 4	-	Not applicable	-	Not yet applicable	-
PM ₁₀ 25 μg/m ³	Period 1	5 μg/m³	7 μg/m ³	Not yet applicable	11 μg/m ³	5 μg/m³
. 0	Period 2	-	7 μg/m³	-	10 μg/m³	14 μg/m ³
	Period 3	-	Not yet applicable	-	10 μg/m ³	Not yet applicable
	Period 4	-	Not applicable	-	Not yet applicable	-

3.1.11 Interpretation

3.1.11.1 Particulates Results

External ambient air quality was collected for total suspended particulates (TSP) and particulate matter less than $10\mu m$ (PM₁₀).

TSP is one of the indicators for which the Coordinator-General has imposed a goal of 80µg/m³ (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).

PM₁₀ is one of the indicators for which the Coordinator-General has imposed a goal of 50µg/m³ (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).

These stations have been installed on-site as per AS/NZS 3850 1.1 following consultation with UNITY Certified Air Quality Professionals (CAQP).

During the reporting period:

- None of the particulate results exceeded their relevant goals for TSP and PM₁₀ at RNA and Clapham Yard
- There were no complaints received associated with air quality concerns during the reporting period for the sites of Mayne Yard, RNA and Clapham Yard.

3.1.11.2 Mayne Yard East June Interpretation

Due to the DMP requiring annual calibration by the supplier interstate there was only four (4) days of compliant data for the reporting period.

As a result, UNITY has undertaken an investigation to provide supplementary information to confirm the RIS scope of works has met the project outcomes set out by the CGCR and the OEMP.

3.1.11.2.1 UNITY Works

During the reporting period Mayne Yard East Works consisted of entry road modifications, shunter shed and CER inground services installation and BR12 final truss span installation.



3.1.11.2.2 Meteorological Conditions

As shown in the wind rose below (refer Figure 4) the predominant winds during the reporting period were from a south-westerly and south-easterly direction. As a result, any potential dust generated from UNITY works would have travelled north-west or north-east across the Mayne Yard work areas and towards the dust deposition gauge located at Grafton Street, Windsor (refer to Attachment 3).

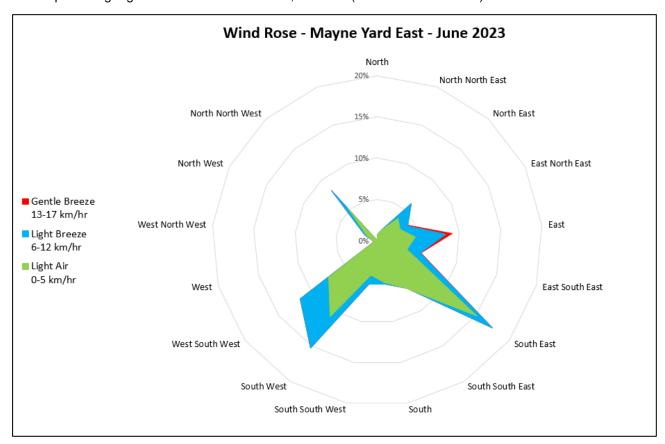


Figure 4 Mayne Yard East Wind Rose June 2023

3.1.11.2.3 Air Quality Complaints

During the reporting period, no air quality complaints were received for works associated with Mayne Yard East from nearby sensitive receivers.

3.1.11.3 Clapham Yard Insufficient Data 7 – 9 June 2023

During the reporting period there was a three-day period (7 - 9 June 2023) where the Clapham Yard DMP did not record a sufficient volume of data (minimum 18-hours, or 75% over a 24-hour period).

As a result, UNITY has undertaken an investigation to provide supplementary information to confirm the RIS scope of works has met the project outcomes set out by the CGCR and the OEMP.

3.1.11.3.1 UNITY Works

During the insufficient data period Clapham Yard Works consisted of BR94 RSS wall works and Energex cutover works.

The Clapham Yard site is almost entirely capped and exposed areas such as batters and stockpiles have been glued down with polymer spray to manage erosion and sediment control and dust generation.



3.1.11.3.2 Meteorological Conditions

As shown in the wind rose below (refer Figure 5) the predominant winds during the insufficient data period were from a westerly direction. As a result, any potential dust generated from UNITY works would have travelled east towards the Clapham Yard dust deposition gauge (refer to Attachment 3).

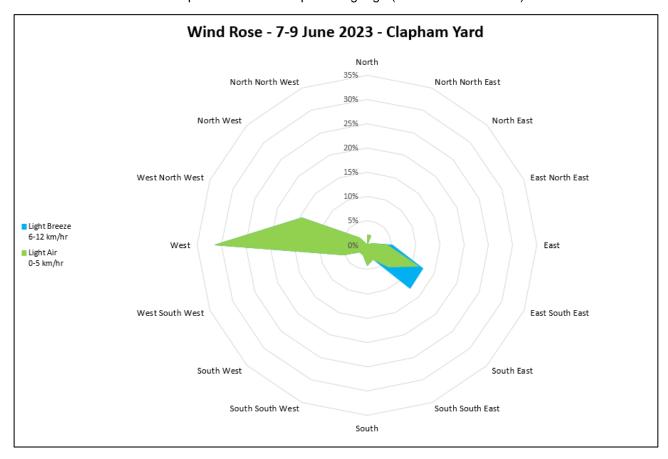


Figure 5 Clapham Yard 7-9 June 2023 Wind Rose June 2023

3.1.11.3.3 Air Quality Complaints

During the reporting period, no air quality complaints were received for works associated with Clapham Yard from nearby sensitive receivers.

Additional remodelling was also completed by the Project CAQP which confirmed that the current scope of Works at Clapham Yard does not trigger particulates monitoring.

Finally, the Project continues to meet their requirements under Imposed Condition 13 and the OEMP.

Water Quality

Imposed Condition 15(b) requires that during construction, monitoring, and reporting on water quality in accordance with the Water Quality Management Plan, a sub-plan of the C-EMP, occurs.

Imposed Condition 15(a) requires that discharges of groundwater from Project Works within the Breakfast Creek catchment must comply with the Brisbane River Estuary environmental values and water quality objectives (Basin no.143 – mid-estuary) in the *Environment Protection (Water) Policy 2009*.

Imposed Condition 15(a) requires that discharges of groundwater from Project Works within Moolabin Creek, Yeerongpilly – Oxley Creek catchment must comply with the Oxley Creek - Lowland freshwater environmental values and water quality objectives (Basin no.143 (part) – including all tributaries of the Creek) in the *Environment Protection (Water) Policy 2009*.



Water quality monitoring to demonstrate compliance with Imposed Condition 15(a) was not triggered during the reporting period. There were no groundwater discharges during the reporting period.

Water quality monitoring to demonstrate compliance with Condition 15(b) and Condition 18 was triggered during the reporting period. Post rainfall response monitoring was undertaken.

3.1.12 Rainfall Records

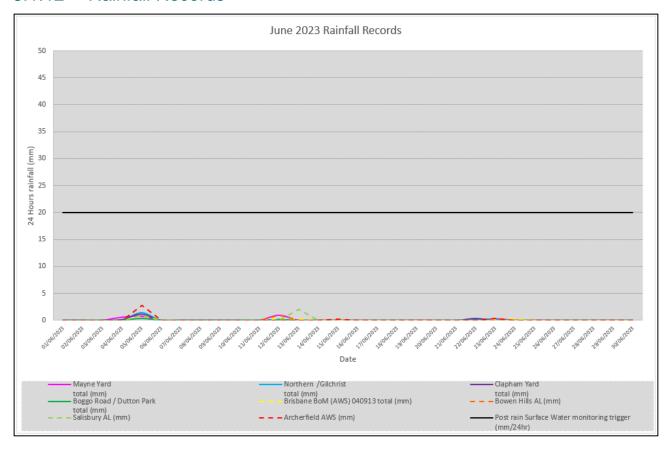


Figure 6 June 2023 Rainfall Records

3.1.13 Post Rainfall Monitoring Results

Post rainfall monitoring is triggered typically following any rainfall event exceeding 20 to 25 mm over 24 hours, however, storm events during the high-risk period of the year (November to March) of lesser amounts but of a higher intensity may cause run-off which would also trigger post-rain monitoring consistent with the C-EMP.

Post rainfall monitoring was not triggered as per Condition 15(b) and Condition 18.

Therefore, the RIS scope of works were compliant with Imposed Conditions 15 and 18.

3.1.14 Routine Surface Water Monitoring Results

During the reporting period, UNITY did undertake routine surface water quality monitoring.

A review of the data sample has identified that over 12 months of continuous data collection has occurred with over 20 monitoring events. The frequency of background monitoring has therefore been reduced to biannually, with the dry season (April to August) monitoring completed during the monitoring period.

Wet season (November to March) monitoring is scheduled for later in the year.

This reduction of monitoring frequency is acceptable to continue informing the Dis-1 Credit for the ISCA 'Excellent Rating' the Project is pursuing.



Table 10 Routine Surface Water Monitoring Results

Date	Location	Waterway	Tide	Turbidity (NTU)	TSS (mg/L)	DO (%)	pH (pH unit)
12 June 2023	SW-1 – Upstream of Mayne Yard	Breakfast Creek	Marine conditions	Field: 3.92 Lab: 4.5	10	65	6.9
12 June 2023	SW-2 – Adjacent to Mayne Yard	Breakfast Creek	Marine conditions	Field: 4.33 Lab: 4.4	9	67	7.5
12 June 2023	SW-3 – Downstream of Mayne Yard	Breakfast Creek	Marine conditions	Field: 3.65 Lab: 3.4	6	76	7.6
12 June 2023	SW-4 – Downstream of Northern Corridor	Barrambin / York's Hollow	Not applicable – non-tidal environment	Field: 8.5 Lab: 17.8	8	47	7.4
12 June 2023	SW-5 – Upstream rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Field: 16.74 Lab: 12.0	8	83	7.5
12 June 2023	SW-6 – Downstream of rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Field: 2.22 Lab: 4.0	12	92	7.6
12 June 2023	SW-7a – Upstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 7.07 Lab: 4.5	8	107	7.4
12 June 2023	SW-7 – Upstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 2.62 Lab: 3.4	<5	105	7.4
12 June 2023	SW-8 – Downstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 1.43 Lab: 4.6	<5	87	7.4
12 June 2023	SW-9 – Downstream of rail corridor	Stable Swamp Creek	Not applicable – non-tidal environment	Field: 6.6 Lab: 1.2	<5	95	7.5

3.1.15 Groundwater Discharge Monitoring Results

Groundwater discharge monitoring was not triggered during the reporting period.

3.1.16 Surface Water Discharge Monitoring

Surface water discharge monitoring was not triggered during the reporting period.

Table 11 Surface Water Discharge Results

Date	Location	Waterway	Discharge Criteria ²						
			Turbidity (NTU) Nil until Turbidity / TSS correlation achieved ³	TSS (mg/L) <50	DO (%) Nil	pH (pH Unit) Stable pH reading; and General sites: 6.5 – 8.5, or Wallum/Acidic Ecosystems: 5.0 – 7.0			
Nil – N	Not Triggered								

² Refer to the waterways and water quality management plan, a C-EMP sub-plan for details of derivation of the discharge criteria

³ Correlations are typically run on the source water (i.e., basins) not the receiving system where there is a dilution component of potentially diffuse sources of sediments from non-Project related areas. Due to the very limited amount of discharges the RIS Scope of Works has experienced, there is no correlation available. Typically, a minimum of 20 data points is used to determine TSS / in field turbidity correlation for site waters.



4 Compliance Review

Non-Compliance Events

The below section summarises the events to be reported in accordance with Imposed Condition 5 and Imposed Condition 6(b)(ii). A non-compliance event (NCE) is defined as Project Works that do not comply with the Imposed Conditions.

4.1.1 Non-Compliance Events Summary

Table 12 Summary of Non-Compliance Events

Event Title	Location, Date, and time of event	Date the Event was Formally Notified to CG/IEM	Conditions Affected	Date the Event Report Formally Sent to CG/IEM	Status of Event
N/A for reporting	period				

C-EMP Compliance

The below table summarises compliance status with the C-EMP and monitoring requirements of relevant sub-plans for the reporting period.

Table 13 C-EMP and relevant Subplans monitoring requirements - Compliance Status for the reporting period

	'	<u> </u>		, ,,	
Aspect	Monitoring requirement	Activities risk profile	Monitoring undertaken	Compliance status with C- EMP / Subplan	Effect of the non-compliance
Air Quality	Visual monitoring program + Additional particulate monitoring as required based on the outcomes of the predictive assessment/risk profile	Moderate to High	Yes – visual monitoring is undertaken as part of routine inspections. Monitoring for TSP, PM ₁₀ , and deposited dust was also undertaken TSP, PM ₁₀ monitoring was carried out for three active Worksites	Compliant Compliant Compliant	Not Applicable
Air Quality	Complaint's response	Moderate to High	Not triggered	Compliant	Not Applicable
Noise	Buffer distance tests based on the outcomes of the predictive assessment based / risk profile of activities	Moderate to High	Not triggered	N/A	Not Applicable
Noise	Plant noise audits for noisy plant to validate models input as required	Moderate to High	No	N/A	Not Applicable
Noise	Complaint's response	Moderate to High	Not triggered	N/A	Not Applicable
Vibration	Construction Monitoring at Sensitive Places / DAPs - Model verification based on the outcomes of the predictive assessment based / risk profile of activities	Moderate to High	Yes – monitoring triggered for RNA Stage 3 Works	Compliant	Not Applicable
Vibration	Complaint's response	Moderate to High	Not triggered No complaints	N/A	Not Applicable



Aspect	Monitoring requirement	Activities risk profile	Monitoring undertaken	Compliance status with C- EMP / Subplan	Effect of the non-compliance
Water Quality	Bi-Annual monitoring	N/A	Dry Season monitoring completed during the reporting period. Wet season monitoring to be completed later in the year.	Compliant	Not Applicable
Water Quality	Post Rainfall	Moderate to High	Not triggered	Compliant	Not Applicable
Water Quality	Dewatering	Moderate to High	Not triggered No dewatering to stormwater	Compliant	Not Applicable



Attachment 1 Imposed Conditions Non-Compliance Event Report (if required)



Attachment 2 Monitoring Locations – Noise and Vibration



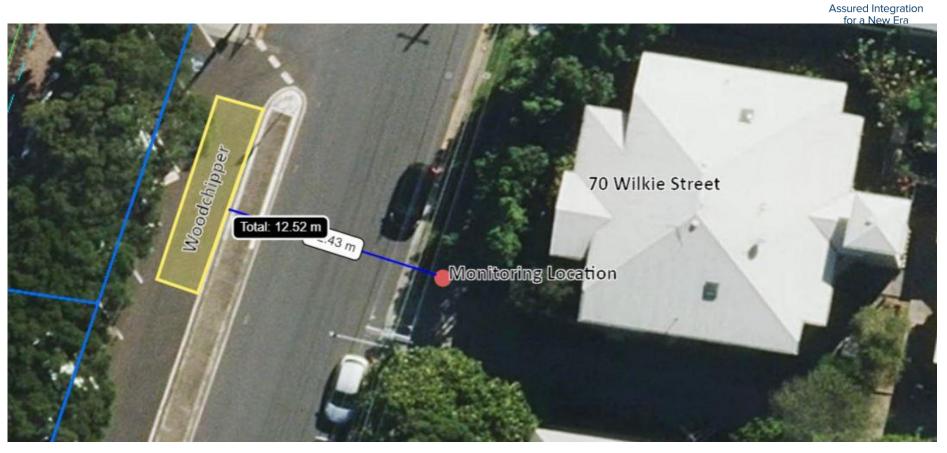


Figure 7 Yeerongpilly Station Noise Monitoring 17 June 2023



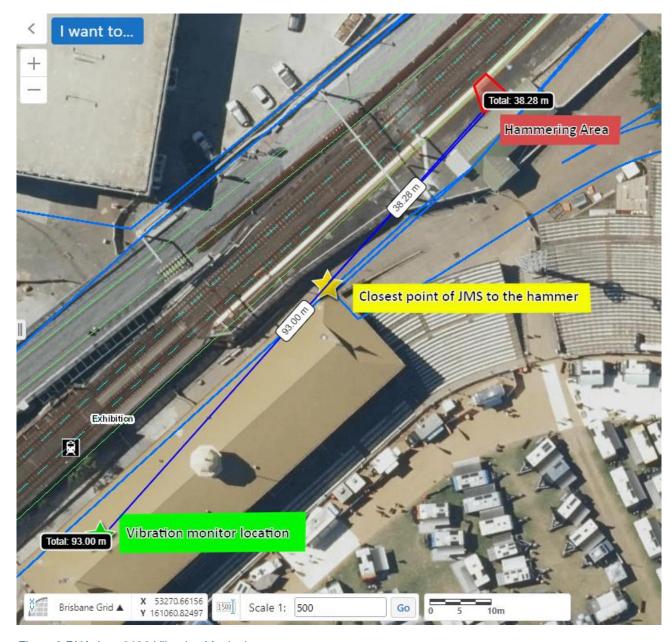
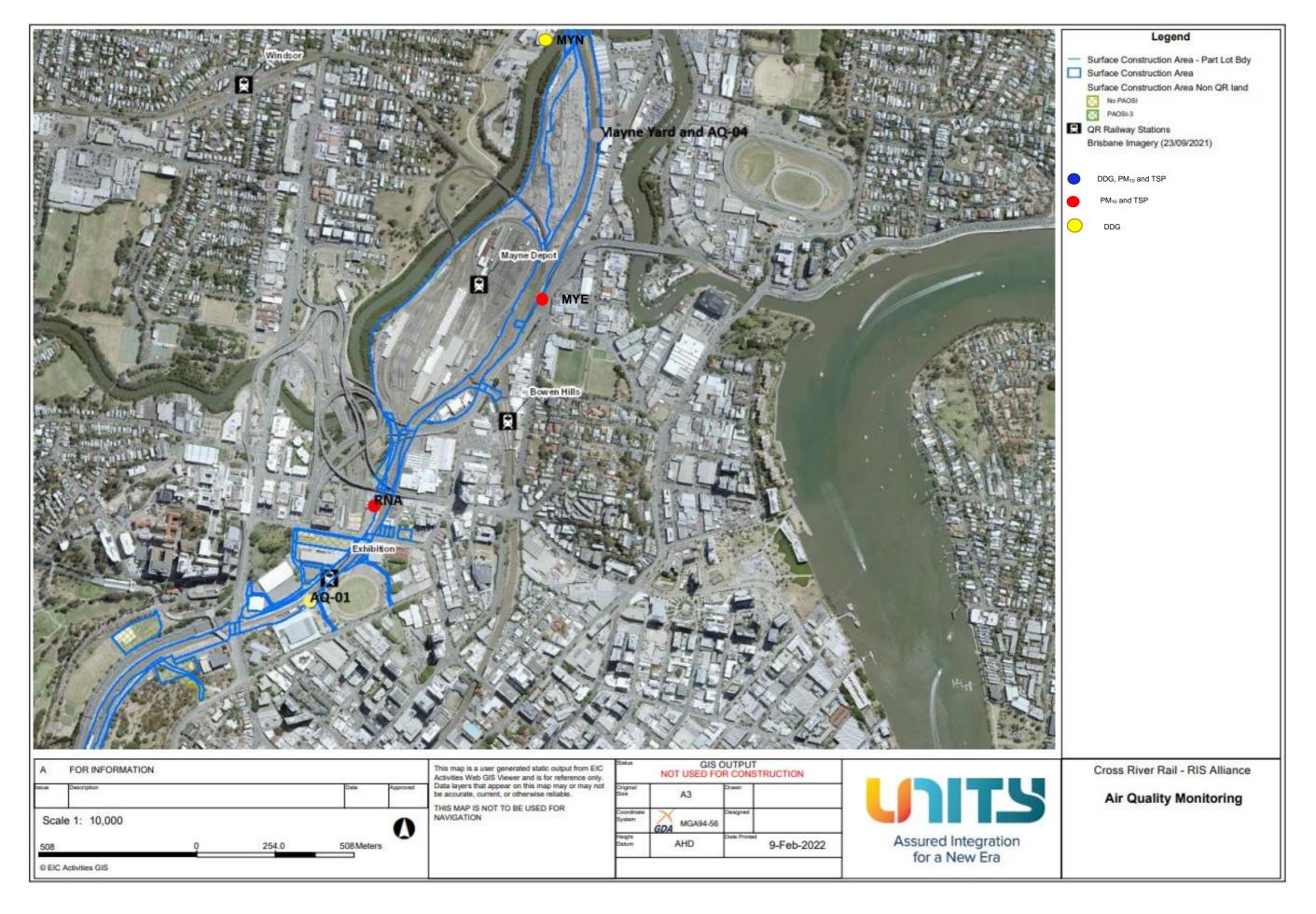


Figure 8 RNA June 2023 Vibration Monitoring

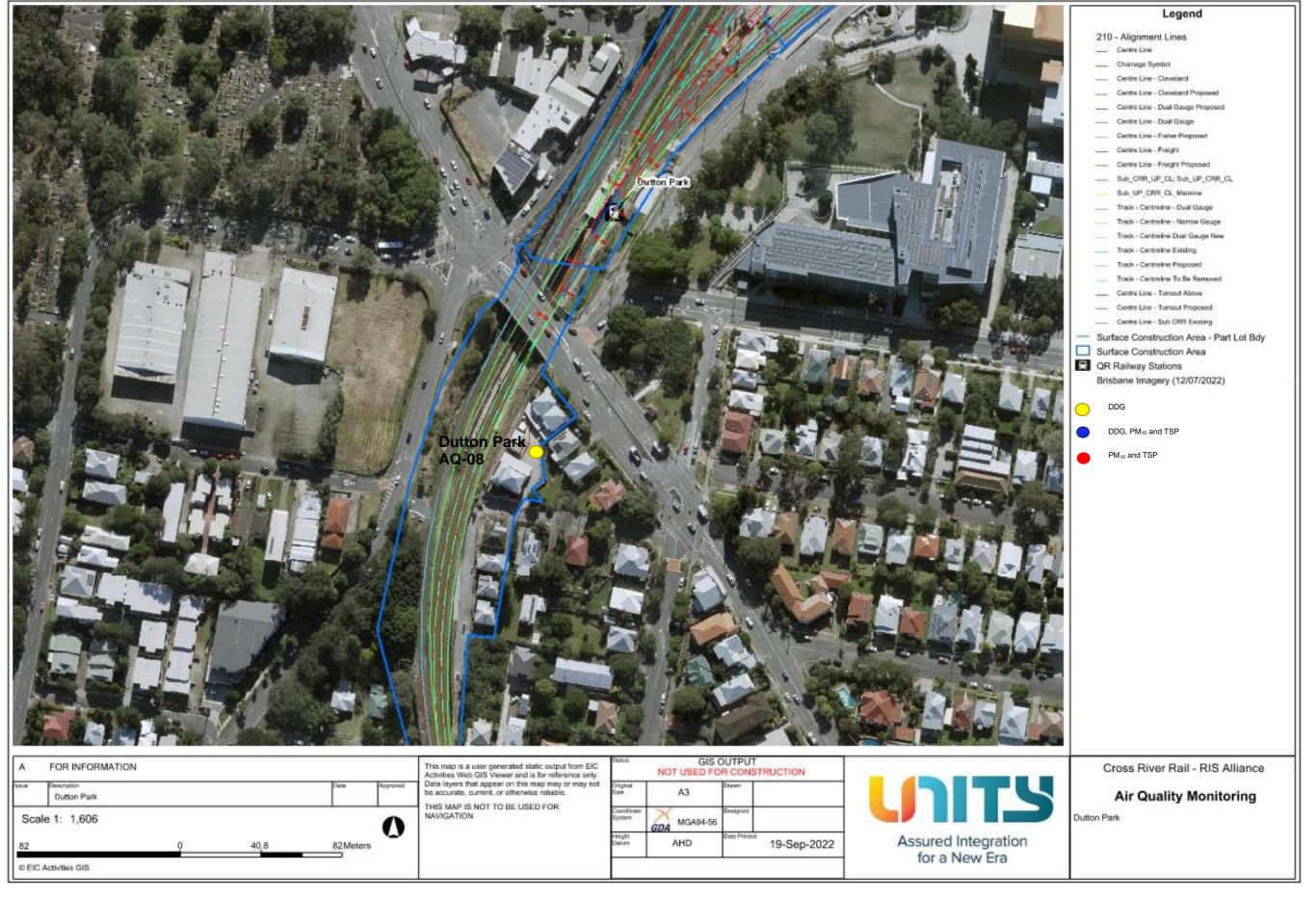


Attachment 3 Monitoring Locations – Air Quality

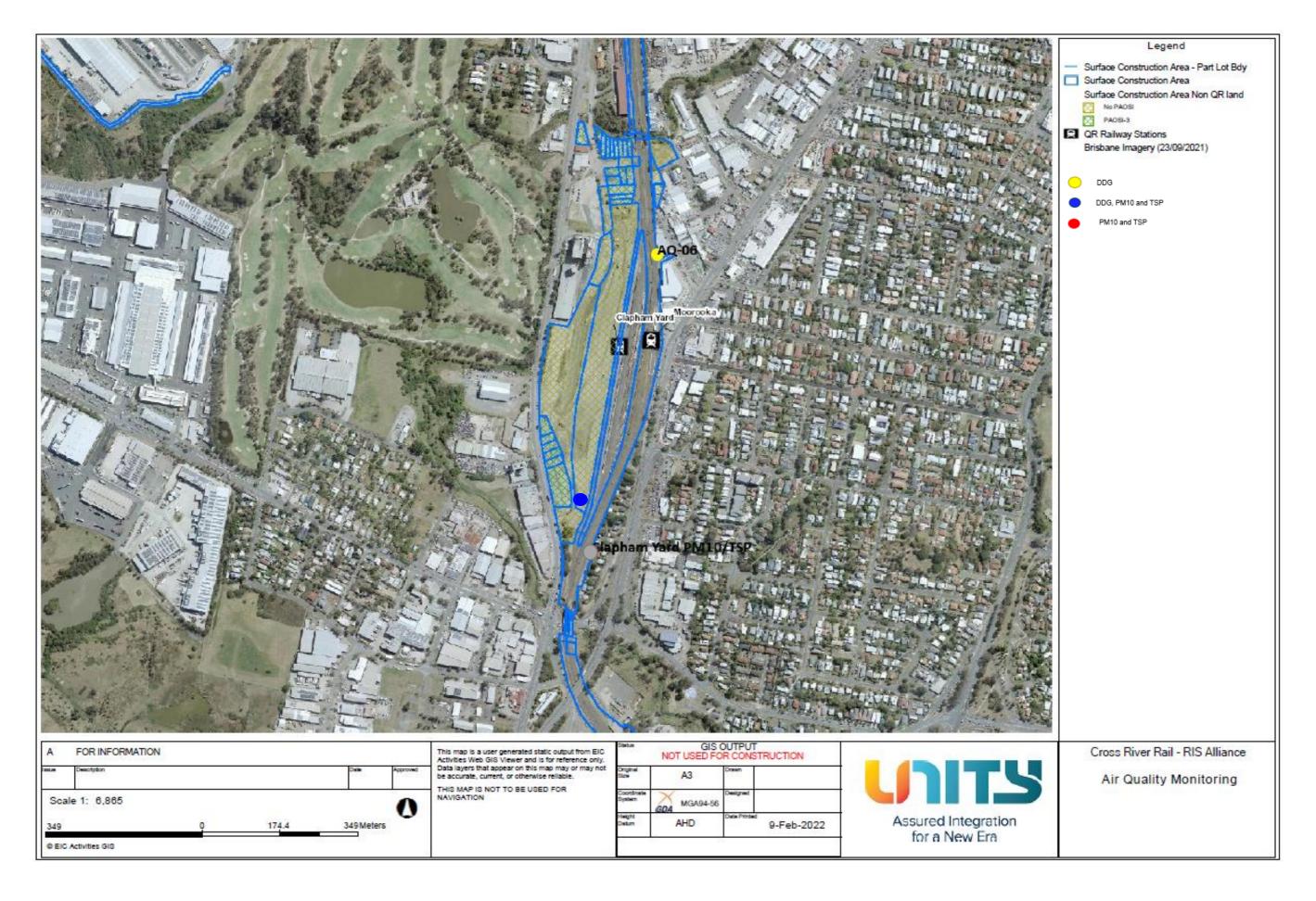








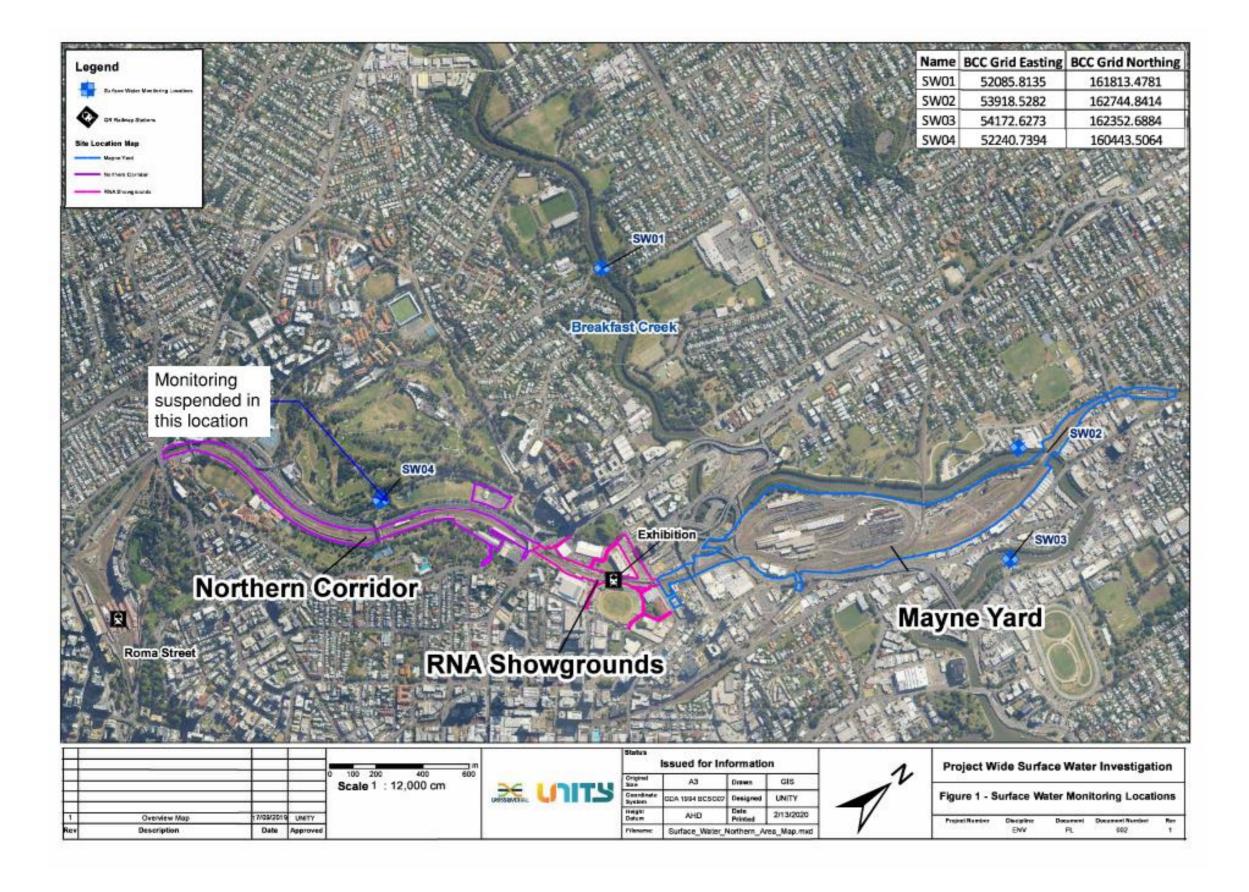




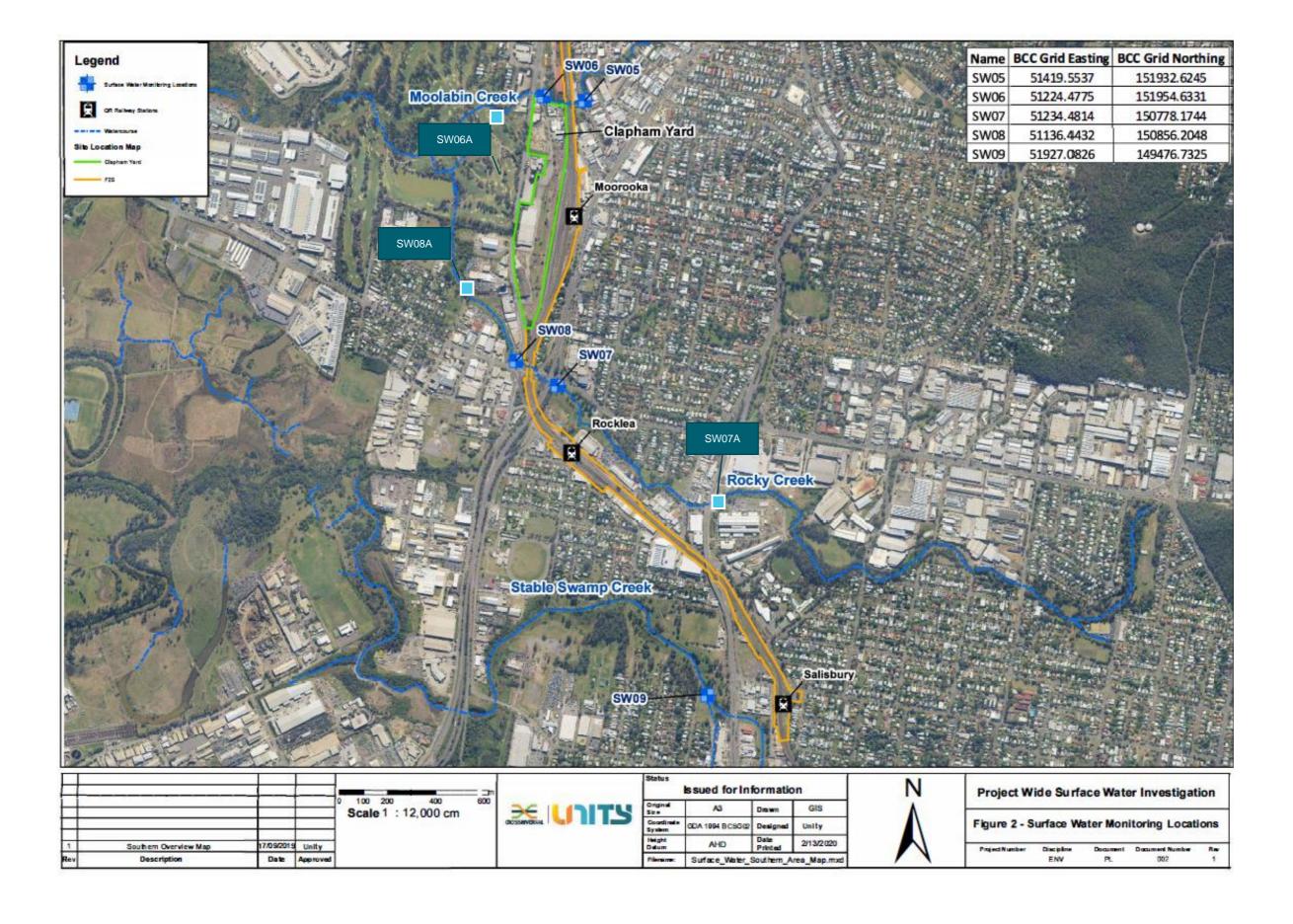


Attachment 4 Monitoring Locations – Surface Water









Appendix B TSD Monthly Report







COORDINATOR-GENERAL'S MONTHLY REPORT: June 2023

Prepared in accordance with Coordinator-General Imposed Condition 6 - Reporting.

1. Monthly Monitoring Summary

It is CBGU Joint Venture's intent to aim for the Goals and Objectives relevant to vibration, noise, air quality and water monitoring within the practical extent of delivering the Project.

Vibration monitoring was conducted on one (1) occasion during June 2023. Noise monitoring was conducted on six (6) occasions during June 2023. Each noise and vibration monitoring event that was undertaken confirmed works adhered to project requirements.

Ambient air quality monitoring was conducted at Roma Street, Albert Street, Woolloongabba, Boggo Road, Southern Portal and Northern Portal precinct sites during June 2023. Air quality monitoring confirmed works adhered to project requirements.

Water quality monitoring was conducted before the release of water from the site on twenty-seven (27) occasions. Each monitoring event confirmed project requirements were adhered to. One (1) round of surface water quality monitoring was conducted; the monitoring event confirmed no impacts were generated by the Project.

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2. CG Monthly Report – Compliance Assessment Against Imposed Conditions

Whilst not a requirement of Imposed Condition 6, CBGU offers the below Compliance Status Table as a good-will gesture to demonstrate the Project's ongoing environmental performance.

Table 1: Compliance Status – CG Imposed Conditions

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
1.	General Conditions – compliance with the Project Changes relevant to the Contractor's scope.	Yes	CBGU project works have been conducted in compliance with the Imposed Conditions.
2.	Outline Environmental Management Plan – timely submission to the Coordinator-General, including required sub-plans.	N/A	The OEMP is not an obligation of the CBGU Joint Venture.
3.	Design – the achievement of the Environmental Design Requirements.	Yes	Design and implementation proceeded in accordance with the Environmental Design Requirements.
4.	Construction Environmental Management Plan – all relating to Relevant Project Works.	Yes	All CBGU works were conducted in accordance with the Construction Environmental Management Plan (CEMP) (Rev 11).
5.	Compliance and Incident Management – Non-compliance events, notifications, and reporting.	Yes	Nil non-compliances occurred during the monitoring period (refer to Section 4).
6.	Reporting – Monthly and Annual reporting.	Yes	All reporting requirements are completed in accordance with Imposed Condition 6.
7.	Environmental Monitor – engaged and functions resumed.	Yes	An Environmental Monitor (EM) is appointed to the Project, and CBGU is committed to working collaboratively to aid the EM's functions under Imposed Condition 7.
8.	Community Relations Monitor – engaged and functions resumed.	Yes	A Community Relations Monitor (CRM) is appointed to the Project, and CBGU is committed to working collaboratively to aid the CRM's functions under Imposed Condition 8.
9.	Community Engagement Plan – developed and endorsed by Environmental Monitor.	Yes	A Community Engagement Plan (CEP) has been developed and implemented in accordance with Imposed Condition 9. The CEMP has been endorsed with the CEP.
10.	Hours of Work – works undertaken during approved hours.	Yes	CBGU project works have been conducted in accordance with the approved hours of work.









CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
11.	Noise – Work must aim to achieve internal noise goals for human health and well-being.	Yes	CBGU project work has aimed to achieve internal noise goals for human health and well-being. Where internal noise levels have been unable to be measured, suitable noise reductions have been applied in accordance with Imposed Condition 11. Noise monitoring data is provided within Section 3.2.
	Vibration – Works must aim to achieve vibration goals for cosmetic damage, human comfort and sensitive building contents.	Yes	CBGU project work has aimed to achieve vibration goals for cosmetic damage, human comfort and sensitive buildings. Vibration monitoring data is provided within Section 3.1.
12.	Property Damage relating to ground movement	Yes	The management of potential impacts relating to property damage has been completed in accordance with Imposed Condition 12.
13.	Air Quality – Works must aim to achieve air quality goals for human health and nuisance.	Yes	CBGU project works have aimed to achieve air quality goals. Air quality monitoring data is provided within Section 3.3.
14.	Traffic and Transport – Works must minimise adverse impacts on road safety and traffic flow.	Yes	CBGU project works have been conducted in a manner that has minimised adverse impacts on road safety and traffic flow.
15.	Water Quality – Works must not discharge surface water and groundwater from the construction site above the relevant environmental values and water quality objectives.	Yes	CBGU has prepared and manages processes to ensure water quality is managed in accordance with Imposed Condition 15.
16.	Water Resources – evaluate potential impact, plan works, implement controls and monitor the inflow of groundwater associated with drawdown.	Yes	CBGU project works are managed in accordance with Imposed Condition 16.
17.	Surface Water – Must be designed to avoid inundation from stormwater due to a 2-year (6hr) ARI rainfall event and flood waters due to a 5-year ARI rainfall event and constructed to avoid afflux or cause the redirection of uncontrolled surface water flows, including stormwater flows, outside of worksites.	Yes	Design of the CBGU Project works considers the requirements of Imposed Condition 17.
18.	Erosion and Sediment Control – Provisions for erosion and sediment control must be consistent with the Guidelines for Best Practice Erosion and Sediment Control (International Erosion Control Association, 2008) and the Department of Transport and Main Roads' Technical Standard MRTS52.	Yes	CBGU has prepared and manages processes to ensure erosion & sediment control is managed in accordance with Imposed Condition 18.









CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
19.	Acid Sulfate Soils managed as per the Queensland Acid Sulfate Soil Technical Manual.	Yes	CBGU has prepared and manages processes to ensure acid sulphate soils are managed in accordance with Imposed Condition 19.
20.	Landscape and Open Space – general requirement to minimise impacts on landscapes and open space values and specific requirements around Victoria Park	Yes	CBGU project works are designed and implemented in accordance with Condition 20.
21.	Worksite Rehabilitation – worksites rehabilitated as soon as practicable upon completion of works or commissioning, and in consultation with Brisbane City Council.	Yes	CBGU project works are designed and implemented in accordance with Condition 21.
22.	Flood Water – Temporary emission to allow the release of Flood Waters to high flow receiving waters.	Yes	CBGU project works have been conducted in accordance with the provisions available to manage floodwaters.









3. Environmental Monitoring Results

Monitoring data is provided below in accordance with Imposed Condition 6(b)(i).

3.1 Vibration

Vibration requirements (levels) are defined as goals within Imposed Condition 11. The goals are to be aimed for.

The Coordinator-General's Change Reports acknowledges instances that exist that these goals may not be achieved.

Vibration monitoring was conducted on one (1) occasion during June 2023. All vibration monitoring adhered to project requirements and is detailed in the table below.

Table 2: Vibration Monitoring Data

No.	Start Date	Time (AM/PM)	Finish Date	Location	Average Vibration level (mm/s)	Max Vibration Level (mm/s)	Vibration Goal (mm/s)	Receiver / Goal Type	Adhered to Project Requirements (Yes / No)
1.	28/06/2023	07:57	30/06/2023	George Street (Roma Street Precinct)	0.11	0.14	2	Heritage	Yes

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3.2 Noise

Noise requirements (levels) are defined as goals within Imposed Condition 11. The goals are to be aimed for.

The Coordinator-General Change Reports acknowledge instances where these goals may not be achieved.

Noise monitoring was conducted on six (6) occasions during June 2023. All noise monitoring data adhered to Project requirements and is provided in the table below.

Table 3: Noise Monitoring Data

No.	Date	Time (AM / PM)	Location (Street Name) (Construction Precinct)	Purpose of Monitoring	Internal or External [3] Monitoring	Activity	Dominant Noise Source	Noise Goal LA10 ^[1]	Noise level LA10	Noise Goal LAeq ^[2]	Noise level LAeq	Adhered to Project Requirements (Yes / No)
1.	1/06/2023	12:58:00 PM	Stanley Street (Woolloongabba Precinct)	Model Verification	External	Demolition works	Traffic	72	71	62	67.4	Yes
2.	16/06/2023	12:48:00 PM	Joe Baker Street (Boggo Road Precinct)	Model Verification	External	Plant decommissioning and oversize transport	Construction	77	70.1	67	69	Yes
3.	19/06/2023	2:02:00 PM	Peter Doherty Street (Boggo Road Precinct)	Model Verification	External	Plant decommissioning and oversize transport	Construction	67	66.3	57	64.2	Yes
4.	20/06/2023	9:25:00 AM	Peter Doherty Street (Boggo Street Precinct)	Model Verification	External	Plant decommissioning and oversize transport	Construction	67	67.6	57	66	Yes
5.	28/06/2023	9:26:00 AM	Roma Street (Roma Street Precinct)	Model Verification	External	Piling works	Traffic	67	71.8	57	69.2	Yes

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No.	Date	Time (AM / PM)	Location (Street Name) (Construction Precinct)	Purpose of Monitoring	Internal or External [3] Monitoring	Activity	Dominant Noise Source	Noise Goal LA10 ^[1]	Noise level LA10	Noise Goal LAeq ^[2]	Noise level LAeq	Adhered to Project Requirements (Yes / No)
6.	28/06/2023	12:44:00 PM	Roma Street (Roma Street Precinct)	Model Verification	External	Piling works	Traffic	67	77.7	57	75.4	Yes

- [1] Intermittent noise goal (LA10)
- [2] Continuous noise goal (LAeq)
- [3] Condition 11(c) implemented
- Note: In accordance with Imposed Condition 11, where internal noise levels were unable to be measured, external noise goals were developed by an acoustic specialist using the following standards: ISO 140-5:1998 Acoustics – Measurement of Sound Insulation in Buildings and of Building Elements, Part 5: Field measurements of airborne sound insulation of façade elements and facades and ISO 354:1985 Acoustics – Measurement of sound absorption in a reverberation room.

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Air Quality

Deposited Dust Results 3.3.1

Air quality requirements (levels) are defined as goals within Imposed Condition 13. The goals are to be aimed for. The Coordinator-General Change Report acknowledges instances that exist that these goals may not be achieved. Dust deposition monitoring was performed in June 2023. The dust deposition gauges results for the reporting period are detailed below, and all monitoring data adhered to project requirements.

Table 4.2.2: Air Quality Monitoring – June Deposited Dust Data

	Proj	ect Wide Air Quality	Goals ^[1]				
Location	Criterion	Air Quality Indicator	Goal (mg/m2/day)	Monitoring results (mg/m2/day)	Comments		
Northern Portal				38.71			
Roma Street Precinct				12.90			
Albert Street Precinct (North)				25.00			
Albert Street Precinct (South)			120	7.14			
Woolloongabba Precinct (North)	Nuisance			12.5	Air quality monitoring was performed during the		
Woolloongabba Precinct (South)	Nuisance	Deposited dust	120	31.25	reporting period. All results adhered to project requirements.		
Boggo Road Precinct (North)				9.68			
Boggo Road Precinct (South)				25.81			
Southern Portal (South)				19.35			
Southern Portal (East)				16.13			

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3.3.2 Particulates and Ambient Air Quality Results

Total Suspended Particles (TSP) and particulate matter less than 10µm (PM10) monitoring were conducted during June 2023.

TSP and PM10 are monitored using portable air quality units and nearby Government air quality stations. Targeted monitoring of potential dust-generating activities is conducted by the mobile air quality units and was completed at Albert Street, Woolloongabba, Boggo Road and Northern Portal Precincts during June 2023. Three (3) Government air quality stations near the Construction Precincts are also utilised.

Table 5: Targeted Air Quality Monitoring – Total Suspended Particles and PM10 Data

	TSP	PM10	Woolld	ongabba	Alb	ert	Boggo	Road	Norther	n Portal
Date	Project Goal [1]	Project Goal	TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10
					(μg/m³/24 h	nr)		l		L
01-June-23	80	50	40.21	39.93	30.33	24.44	34.00	33.98	47.22	47.18
02-June-23	80	50	27.64	27.44	27.43	21.54	_ [2]	_ [2]	30.04	30.02
03-June-23	80	50	17.57	17.48	12.99	10.58	_ [2]	_ [2]	20.28	20.28
04-June-23	80	50	16.15	16.07	9.78	8.86	_ [2]	_ [2]	13.84	13.83
05-June-23	80	50	12.73	12.64	15.17	12.75	_ [2]	_ [2]	11.01	11.00
06-June-23	80	50	7.82	7.70	16.02	11.96	3.19	3.16	6.84	6.84
07-June-23	80	50	9.84	9.74	18.49	13.26	6.48	6.47	9.17	9.15
08-June-23	80	50	9.87	9.70	14.62	10.77	6.79	6.77	12.59	12.58
09-June-23	80	50	12.18	11.98	22.59	15.98	7.02	7.02	8.57	8.53
10-June-23	80	50	16.33	16.17	12.70	9.72	13.85	13.84	15.47	15.44
11-June-23	80	50	19.02	18.90	9.53	8.38	17.01	17.00	19.61	19.59
12-June-23	80	50	13.63	13.50	10.72	8.64	10.25	10.25	11.58	11.56
13-June-23	80	50	14.84	14.73	13.69	10.66	11.38	11.37	20.15	20.12
14-June-23	80	50	13.68	13.31	19.17	13.03	8.75	8.70	12.40	12.34
15-June-23	80	50	10.95	10.74	15.58	10.71	6.90	6.86	7.17	7.14
16-June-23	80	50	19.88	19.44	19.67	14.03	12.59	12.56	15.89	15.87
17-June-23	80	50	27.54	27.40	14.72	11.59	22.80	22.76	25.27	25.25
18-June-23	80	50	21.52	21.43	9.20	8.10	19.29	19.25	27.59	27.57









	TSP	PM10	Woolld	ongabba	Albert		Boggo	Road	Norther	n Portal			
Date	Project Goal [1]	Project Goal	TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10			
	(μg/m³/24 hr)												
19-June-23	80	50	15.85	15.58	19.98	14.50	10.87	10.84	12.78	12.74			
20-June-23	80	50	8.19	7.94	18.27	12.24	5.17	5.14	5.09	5.06			
21-June-23	80	50	17.60	17.35	22.35	15.55	12.78	12.75	13.32	13.30			
22-June-23	80	50	21.02	20.75	22.47	16.95	16.01	16.00	20.14	20.13			
23-June-23	80	50	26.27	26.07	23.13	18.19	19.97	19.95	20.27	20.23			
24-June-23	80	50	13.79	13.61	17.94	13.19	11.67	11.65	8.24	8.22			
25-June-23	80	50	28.19	27.81	15.23	12.72	22.81	22.80	19.27	19.22			
26-June-23	80	50	5.10	4.83	18.07	12.15	2.23	2.18	2.94	2.88			
27-June-23	80	50	10.39	10.05	18.44	12.87	6.26	6.21	6.28	6.22			
28-June-23	80	50	27.31	26.89	23.43	18.32	21.59	21.55	21.79	21.73			
29-June-23	80	50	7.00	6.46	14.35	10.02	2.35	2.33	2.97	2.93			
30-June-23	80	50	5.24	5.02	18.46	13.17	2.64	2.62	2.91	2.88			

^[1] Project works must aim to achieve construction air quality goals. The Coordinator-General Change Report – Whole of Project Refinements 2019 acknowledges instances that exist that these goals may not be

^[2] The Boggo Road air quality unit experienced technical difficulties intermittently during June. As soon as practicable, the unit was inspected, and the problem was resolved. A nearby (Woolloongabba) DES Air Quality Station demonstrated compliant air quality during this outage period. These results are provided below. Low levels were also consistently monitored throughout the month when the unit was operating



CBGU also utilises three (3) Government air quality monitoring stations to monitor PM10 near the project sites. The results during this reporting period were as follows:

- Brisbane CBD: PM10 daily Maximum average: **69.3** µg/m3/24 hr (https://apps.des.qld.gov.au/air-quality/chart/?station=cbd¶meter=18&date=1/6/2023&timeframe=month)
- South Brisbane: PM10 daily Maximum average: **61.8 µg/m3/24 hr** (https://apps.des.qld.gov.au/airquality/chart/?station=sbr¶meter=18&date=1/6/2023&timeframe=month)
- Woolloongabba: PM10 daily Maximum average: **50.5** µg/m3/24 hr (https://apps.des.qld.gov.au/air-quality/chart/?station=woo¶meter=18&date=1/6/2023&timeframe=month).

The graphical representation of the Government air quality data is presented in the below charts (refer to Figure 1-3).

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Figure 1: Brisbane CBD - DES Station - PM10 graph for June 2023 (reproduction from the DES website).









Particle PM₁₀ at South Brisbane, 1-30 June 2023 @ about Particle PM₁₀



Figure 2: South Brisbane - DES Station - PM10 graph for June 2023 (reproduction from the DES website).

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Particle PM₁₀ at Woolloongabba, 1-30 June 2023 @ about Particle PM₁₀



Figure 3: Woolloongabba – DES Station - PM10 graph for June 2023 (reproduction from the DES website).

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3.4 Water Quality – Discharge

CBGU undertook four (4) water quality monitoring events before the release (groundwater and surface water) from the site.

3.4.1 Groundwater Discharge

Water quality monitoring data is provided in the table below.

Table 6: Groundwater Discharge – Water Quality Monitoring Data

	Date	Testing of Water Quality Objectives [1]										Adhered to	
Location		Нф	Suspended solids (mg/L)	Turbidity (NTU)	Ammonia N (µg/L) ^[3]	Oxidised N (µg/L) [3]	Organic N (µg/L) [3]	Total nitrogen (µg/L) ^[4]	Total phosphorus (µg/L)	Filterable Reactive phosphorus (µg/L) [3]	Chlorophyll a (µg/L)	Dissolved oxygen (%) [2]	Project Requirements (Yes / No)
Boggo Road	8/06/2023	8.08	<5	2.46	<10	70.00	300.00	400.00	10.00	<10	<1	105.17	Yes
Woolloongabba	8/06/2023	7.93	<5	0.35	20.00	440.00	600.00	1000.00	<10	<10	<1	100.07	Yes
Albert Street	9/06/2023	7.20	<5	0.40	160.00	50.00	40.00	60.00	<10	<10	<1	101.67	Yes
Roma Street	12/06/2023	7.95	<5	0.36	220.00	570.00	400.00	1200.00	<10	<10	<1	91.62	Yes

^[1] The Project's discharge procedure is designed to minimise environmental impact and aim to achieve the water quality objectives. Water quality objectives are defined as goals within the Brisbane River estuary environmental values and water quality objectives document.

Note: Testing of EPP (Water) Quality Objectives are analysed at a NATA accredited laboratory each month (results provided above). Field testing (turbidity, pH) is done regularly during ongoing discharge.

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^[2] All results adhere to Project requirements in that site practices are designed to aim to achieve the water quality objectives. The dissolved oxygen samples were acquired before discharge from the site. Pumping of the water will have inadvertently aerated the water, thus influencing the dissolved oxygen level.

^[3] All results adhere to Project requirements in that site practices aim to achieve the water quality objectives. These samples identified results generally consistent with pre-construction conditions, and no external influences were introduced by construction activity.

^[4] Total nitrogen levels adhered to project requirements in that site practices are designed to aim to achieve the water quality objectives. The results are mostly below that of the receiving environment. They are also considered abnormal compared to results from previous months, and are influenced by external factors (e.g., high rainfall events, overloaded sewage systems, fertilising natural areas, etc.) rather than related to construction activities.









3.4.2 Ponded/Surface Water Discharge

Discharged ponded/Surface water quality monitoring data is provided in the table below.

Table 7: Surface Water Discharge - Water Quality Monitoring Data

	dee vuiel Bischarge vuiel Quality Monitorii		Testing of Water (Quality Objectives [1]	Adhered to Project
No.	Location	Date	рН	Turbidity (NTU)	Requirements (Yes / No)
1.	Northern Portal	29/05/2023	8.02	1.53	Yes
2.	Northern Portal	30/05/2023	8.00	1.22	Yes
3.	Northern Portal	31/05/2023	8.03	2.00	Yes
4.	Northern Portal	1/06/2023	8.04	1.53	Yes
5.	Boggo Road	1/06/2023	7.54	2.62	Yes
6.	Northern Portal	2/06/2023	7.98	2.01	Yes
7.	Northern Portal	3/06/2023	7.94	0.33	Yes
8.	Northern Portal	5/06/2023	8.13	2.88	Yes
9.	Northern Portal	6/06/2023	8.11	5.12	Yes
10.	Northern Portal	7/06/2023	8.13	4.28	Yes
11.	Northern Portal	8/06/2023	8.19	4.31	Yes
12.	Northern Portal	10/06/2023	8.12	2.03	Yes
13.	Northern Portal	12/06/2023	8.08	1.60	Yes
14.	Northern Portal	13/06/2023	8.12	1.26	Yes
15.	Boggo Road	14/06/2023	7.00	35.90	Yes









16.	Northern Portal	15/06/2023	8.13	4.71	Yes
17.	Northern Portal	16/06/2023	8.09	3.41	Yes
18.	Northern Portal	19/06/2023	8.03	3.39	Yes
19.	Northern Portal	20/06/2023	8.09	4.21	Yes
20.	Northern Portal	21/06/2023	8.12	5.02	Yes
21.	Northern Portal	22/06/2023	8.11	4.82	Yes
22.	Northern Portal	23/06/2023	8.09	4.31	Yes
23.	Northern Portal	26/06/2023	7.98	0.53	Yes
24.	Northern Portal	27/06/2023	8.02	1.03	Yes
25.	Southern Portal	28/06/2023	7.00	14.60	Yes
26.	Northern Portal	28/06/2023	8.02	1.09	Yes
27.	Northern Portal	29/06/2023	7.98	1.03	Yes

^[1] The Project's discharge procedure is designed to minimise environmental impact and aim to achieve the water quality objectives. All discharges were compliant with Guidelines for Best Practice Erosion and Sediment Control (IECA, 2008) and the Department of Transport and Main Roads' Technical Standard MRTS 52 - Erosion and Sediment Control.









3.5 Water Quality – Surface Water

During June 2023, CBGU JV undertook one (1) round of surface water sampling at five (5) site locations (upstream and downstream).

Results from the below-monitoring locations reflect the condition of the broader catchment (not just the influence of the Project). Water quality generally appears good, and water discharge from the Project would not have had an impact on the catchment, considering the results also provided within section 3.4 above.

Table 8: Offsite Upstream & Downstream Water Quality Data

Location	Upstream / Downstream	Date	Purpose of Monitoring	Turbidity (NTU)	EC (μS/cm)	Dissolved oxygen (%)	рН
Woolloongabba	Upstream	8/06/2023	Monthly	2.25	24700	47.61	6.42
Woolloongabba	Downstream	8/06/2023	Monthly	4.24	39500	103.76	7.05
Boggo Road [1]	Downstream	8/06/2023	Monthly	4.87	32400	94.89	7.22
Albert Street	Upstream	9/06/2023	Monthly	6.47	43500	99.25	8.1
Albert Street	Downstream	9/06/2023	Monthly	8.78	43200	100.46	8.14
Northern Portal	Upstream	12/06/2023	Monthly	2.97	845	53.87	8.48
Northern Portal	Downstream	12/06/2023	Monthly	8	757	126.78	7.78
Roma Street	Upstream	12/06/2023	Monthly	5.51	40300	81.9	7.8
Roma Street	Downstream	12/06/2023	Monthly	6.22	40200	82.64	7.97

^[1] Monitoring at the Boggo Rd site occurs at a pipe outlet at the beginning of the surface catchment. There is no upstream/downstream monitoring point as such. The pipe outlet receives water released from the site, as well as a broader stormwater catchment.

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4 Non-Compliances

Details of non-compliances are provided in accordance with Imposed Condition 6(b)(ii).

A Non-Compliance Event is defined as Project works that do not comply with the Imposed Conditions. Nil non-compliances occurred during the monitoring period.

Table 9: Non-Compliance Events this Month

Event Title	Location, Date, and time of the event	Date the Event was Formally Notified to CG/IEM	Conditions Affected	Date the Event Report Formally Sent to CG/IEM	Status of Event
		Nil			



5 Complaints

Reporting of complaints is provided below in accordance with Imposed Condition 6(b)(iii).

During June 2023, zero (0) complaints relating to the Project were received.