



ENVIRONMENTAL MONITORING REPORT, MAY 2021

PARRAMATTA LIGHT RAIL INFRASTRUCTURE WORKS

31 May 2021

Parramatta
Connect

Contents

1. Introduction	1
1.1. Background	1
1.1.1. Statutory Context	2
1.2. Scope	2
2. Site Activities	4
3. Monitoring Results	6
3.1. Inspections	6
3.2. Weather	7
3.3. Noise and Vibration	9
3.4. Soil and Water	11
3.4.1. Water quality in receiving waters	11
3.4.2. Discharge and dewatering	12
3.5. Air Quality	12
3.5.1. Dust Deposition Monitoring	12
3.5.2. Asbestos Fibre Monitoring	13
3.6. Flora and Fauna	13
3.6.1. Grey-Headed Flying Fox Monitoring	13
3.7. Issues/incidents/non-compliance	14
Appendices	15
A-1 Weather Observations	15
A-2 Noise and Vibration Monitoring Results	17
A-3 Water Sampling and Discharge Results	20
A-4 Air Quality Monitoring Results	23



Project number	N81080
Document number	PLR1INF-CPBD-ALL-EN-RPT-0000024
Revision date	2 June 2021
Revision	1

Rev.	Date	Prepared By	Reviewed By	Approved By	Remarks
0	26 May 2021	A. Nair	D. Corish	D. Corish	Nil
1	2 June 2021	A. Nair	D. Corish	D. Corish	Nil



1. Introduction

1.1. Background

Parramatta Light Rail Stage 1 ('Stage 1') will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. Stage 1 is expected to be operational in 2023.

Stage 1 will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta's CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, the new Western Sydney Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

Key features of Stage 1 include:

- A new dual track light rail network of approximately twelve (12) kilometres in length, including approximately seven (7) kilometres within the existing road corridor and approximately five (5) kilometres within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen (16) stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency 'turn-up-and-go' services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period between 7am and 7pm
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers.
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)
- A Stabling and Maintenance (SaM) Facility located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek, Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design works along the corridor and at Stop precincts
- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts
- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.



1.1.1. Statutory Context

The Parramatta Light Rail is classified as Critical State Significant Infrastructure (CSSI) and was subject to environmental impact assessment under the *Environmental Planning and Assessment Act 1979* (EP&A Act). The EIS assessed impacts for Parramatta Light Rail Stage 1 (Westmead to Carlingford) including the light rail and associated road enabling works.

Stage 1 received Infrastructure Approval from the Minister for Planning under Section 5.19 of the EP&A Act on 29 May 2018 (Critical State Significant Infrastructure Application SSI-8285), subject to the conditions provided in the Instrument of Approval, specifically Schedule B – Ministerial Conditions of Approval.

The Infrastructure Approval was subsequently modified under Section 5.25 of the EP&A Act on 21 December 2018 and 25 January 2019.

The planning approval, modifications and related environmental assessment documents are located at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=8285.

A Construction Environmental Management Plan (CEMP) has been prepared for the Parramatta Light Rail Package 4 – Infrastructure Works (Infrastructure Works). The purpose of the CEMP and associated Sub-plans is to address the requirements of the:

- Minister’s Conditions of Approval (CoA) SSI-8285
- Revised Environmental Mitigation and Management Measures (REMMMs)
- Environmental Performance Outcomes (EPOs)
- Applicable legislation and contractual requirements, including the PLR Stage 1 Infrastructure Contract Project Deed (ISD-17-6721).

The REMMMs and EPOs are listed in Parramatta Light Rail Stage 1 Westmead to Carlingford via Parramatta CBD and Camellia Environmental Impact Statement (the EIS), as amended by the Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report) (March 2018) (the SPIR). The CEMP and associated Sub-plans were approved the Secretary on the 21 November 2019.

1.2. Scope

The scope of this report is to present monthly results of the inspection and monitoring programs outlined in the Infrastructure Works CEMP and associated Sub-plans, including the results of the construction monitoring programs referred to in Condition C9 of the Planning Infrastructure Approval.

Environmental inspections and monitoring are undertaken to:

- Validate the predicted impacts of the Infrastructure Works
- Measure the effectiveness of environmental controls
- Track progress against targets and objectives of the CEMP.

The monitoring requirements for nominated aspects are included in the relevant Sub-plans and summarised in **Table 1-1**.

Where relevant, data will be presented on a progressive basis (i.e. monthly summary) to identify trends.

The data of the monitoring programs will also be reviewed annually in the Annual Environment Report.



Table 1-1 Monthly Environmental Monitoring Reporting Requirements

CEMP or Sub-plan	Monitoring program	Distribution
Noise and Vibration Management Sub-plan	<ul style="list-style-type: none"> - Locations and descriptions of monitoring undertaken - Noise monitoring results - Summary of any exceedance of the nominated criteria - Corrective actions 	<ul style="list-style-type: none"> - City of Paramatta Council - Cumberland Council - EPA - NSW Health - TfNSW - IC - ER - AA - Made publicly available
Soil and Water Management Sub-plan	<ul style="list-style-type: none"> - Weather forecasts and observations - Water Quality (Turbidity) monitoring - Discharge and dewatering monitoring 	<ul style="list-style-type: none"> - City of Paramatta Council - Cumberland Council - EPA - DOI Water - TfNSW - IC - Made publicly available
Air Quality and Dust Management Sub-plan	<ul style="list-style-type: none"> - Weather observations - Dust deposition monitoring - Real time aerosol dust monitors - Asbestos fibre air monitoring 	<ul style="list-style-type: none"> - EPA - TfNSW - IC - Made publicly available
Grey-headed Flying-fox (GHFF) Construction Monitoring Program	<ul style="list-style-type: none"> - Weekly visual checks of GHFF camp during high risk periods (1 September to 31 January) 	<ul style="list-style-type: none"> - TfNSW



2. Site Activities

Table 2-1 provides a summary of the site activities for this reporting period (26 April 2021 to 25 May 2021).

Table 2-1 Site Activities During Reporting Period

Precinct	Site Activities
Westmead and North Parramatta	Westmead
	<ul style="list-style-type: none"> – Ongoing installation of stormwater, Combined Service Route (CSR), track and utilities – Commenced property adjustments, retaining walls – Commenced construction of the Drivers' Facilities
	Cumberland
	<ul style="list-style-type: none"> – Ongoing installation of stormwater, CSR, track and utilities – Utilities nearing completion – Bridge piling complete – Ongoing concrete pours for the bridge wing walls on abutments A and B
Parramatta CBD	North Parramatta
	<ul style="list-style-type: none"> – Ongoing installation of stormwater, CSR, track and utilities – Ongoing property adjustment works including retaining walls
Parramatta CBD	Area 2 West (CBD)
	<ul style="list-style-type: none"> – Ongoing utility and services installations on Church Street and Macquarie Street – Ongoing electrical and lighting works – Ongoing Multifunction Pole works – Ongoing civil works (tree pits, CSR, footpaths) along Church Street and Macquarie – Drainage works along Church Street and Macquarie Street – Track works along Church Street and Macquarie Street – Lennox Bridge North drainage
Parramatta CBD	Area 2 East (Smith Street to Arthur Street)
	<ul style="list-style-type: none"> – Utility and services installations on Macquarie Street, Charles Street, Harris Street, George Street, Purchase Street, Alfred Street – Ongoing installation of Multifunction Poles – Drainage works on Macquarie Street, Charles Street, Harris Street, George Street, Purchase Street, Alfred Street – Ongoing civil works (pavement, CSR, road works) along Macquarie Street, George Street, Tramway Avenue – Track works along Macquarie Street, George Street and Tramway Avenue – George Street underbore – road, footpath and reinstatement of work area
Camellia and Carlingford line	Camellia
	<ul style="list-style-type: none"> – Arch Assembly at Tramway Avenue – James Ruse Drive Bridge deck and fit out works. – Drainage works at drainage easement into Parramatta River.



Precinct	Site Activities
	<ul style="list-style-type: none">- Remediation works, lighting, Overhead Wire, CSR, and drainage works at 13a Grand Ave.- CSR and track slab at Sandown Line and Grand Avenue
	Carlingford Line
	<ul style="list-style-type: none">- James Hardie, Camellia Bridge, Vineyard Creek, Kissing Point Road & Leamington Road bridge fit out and track works.- Combined Service Route works from Camellia to Dundas.- Stormwater drainage works from Camellia to Carlingford (including Robert Street)- Ballast track from Rydalmere to Carlingford- Track slab works at Telopea- Telopea and Carlingford Stop Works- Active Transport Link works from Rydalmere to Carlingford- Overhead wire and lighting works from Camellia to Carlingford- Soft landscaping works from Camellia to Carlingford

3. Monitoring Results

Section 3 presents a summary of the environmental inspection and monitoring programs completed during the reporting period (26 April 2021 to 25 May 2021). Detailed monitoring results for each activity are presented in the appendices to this report.

3.1. Inspections

A total of five ER inspections, two AA inspections, one EPA inspection, one DPIE inspection and three TfNSW inspections were completed during the reporting period in addition to 33 internal inspections. It is noted that TfNSW also attends all ER inspections.

Table 3-1 provides a summary of the number of actions raised and closed within the agreed timeframe.

Table 3-1 Inspections for reporting period

Date	Number of Inspections	Type	Actions	Closed in Time
27/04/21	4	Internal Inspection	11	Yes
27/04/21	1	ER Inspection	3	Yes
27/04/21	2	TfNSW Inspection	10	Yes
29/04/21	1	Internal Inspection	3	Yes
30/04/21	3	Internal Inspection	3	Yes
30/04/21	1	AA Inspection	0	N/A
03/05/21	4	Internal Inspection	10	Yes
04/05/21	1	Internal Inspection	5	Yes
04/05/21	1	ER Inspection	5	Yes
06/05/21	1	Internal Inspection	1	Yes
10/05/21	2	Internal Inspection	7	Yes
11/05/21	1	Internal Inspection	0	N/A
11/05/21	1	ER Inspection	4	Yes
12/05/21	1	Internal Inspection	3	Yes
13/05/21	1	Internal Inspection	0	N/A
14/05/21	1	Internal Inspection	0	N/A
14/05/21	1	AA Inspection	0	N/A
17/05/21	4	Internal Inspection	7	Yes



Date	Number of Inspections	Type	Actions	Closed in Time
18/05/21	2	Internal Inspection	4	Yes
18/05/21	1	ER Inspection	6	Yes
18/05/21	1	TfNSW	6	Yes
20/05/21	1	Internal Inspection	4	Yes
20/05/21	1	EPA Inspection	4	Yes
20/05/21	1	DPIE Inspection	4	Yes
21/05/21	1	Internal Inspection	2	Yes
24/05/21	5	Internal Inspection	6	Yes
25/05/21	1	ER Inspection	TBC	TBC
Total	45	-	114	-

3.2. Weather

The total rainfall recorded during the reporting period was 67.4 mm with five days exceeding one millimetre of rain. One rain event exceeded the 80th percentile (25.8mm).

During the reporting period, there were eight days where the maximum wind gust recorded was greater than 25km/hr, two days where the maximum wind gust recorded was greater than 50km/hr and no days where the maximum wind gust recorded was greater than 60km/hr. There was a total of two days where wind speeds greater than 25km/hr were forecast and, on those days, a notification was issued to the construction team to alert them of the strong winds forecast.

A summary of the weather observations and weather events during the reporting period of relevance to the Soil and Water Management Sub-plan and Air Quality Management Sub-Plan Trigger Action Response Plans (TARPs) are summarised in **Table 7-2**. A comparison between long term monthly means and recorded values can be found in **Figure 3-2**.

Detailed weather observation records for the reporting period are presented in **Appendix A-1**.

Table 3-2 Weather Summary and Trigger Weather Events for reporting period¹

Weather Event	Forecast	Observation
Minimum temperature	5.0°C	4.5°C
Maximum temperature	26°C	25.7°C
Total rainfall	60.2 mm	67.4 mm
Number of days with rain (>1mm)	6 days	5 days
>80 th percentile (25.8mm) rain events	No days	1 day
>80 th percentile (33.1mm) rain events	No days	No days



Weather Event	Forecast	Observation
Flood warning / events	None	None
>25km/hr wind ²	2 days	8 days
>50km/hr wind	No days	2 days
>60km/hr wind	No days	No days

¹Weather summary based on data from the 26 April 2021 to 25 May 2021 (30 days).

²Wind data from Sydney Olympic Park AWS (Archery Centre) {station 066212}. Weather data from Parramatta North (Masons Drive) {station 066124}.

Note: Red text indicates observation greater than forecast.

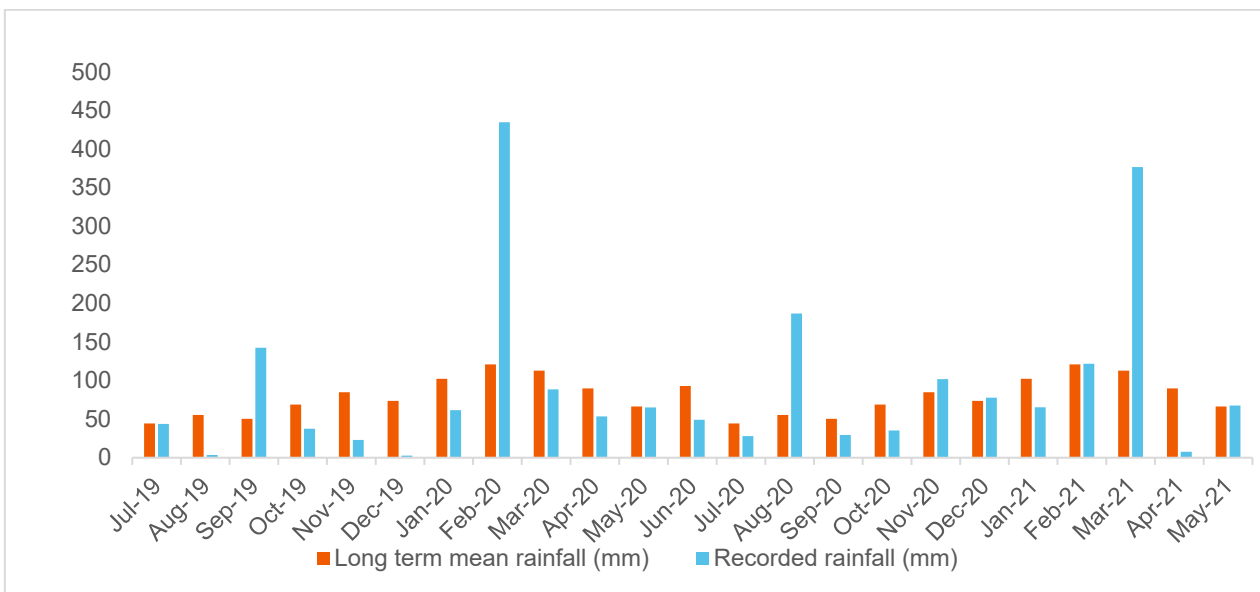


Figure 3-1 Monthly rainfall comparison

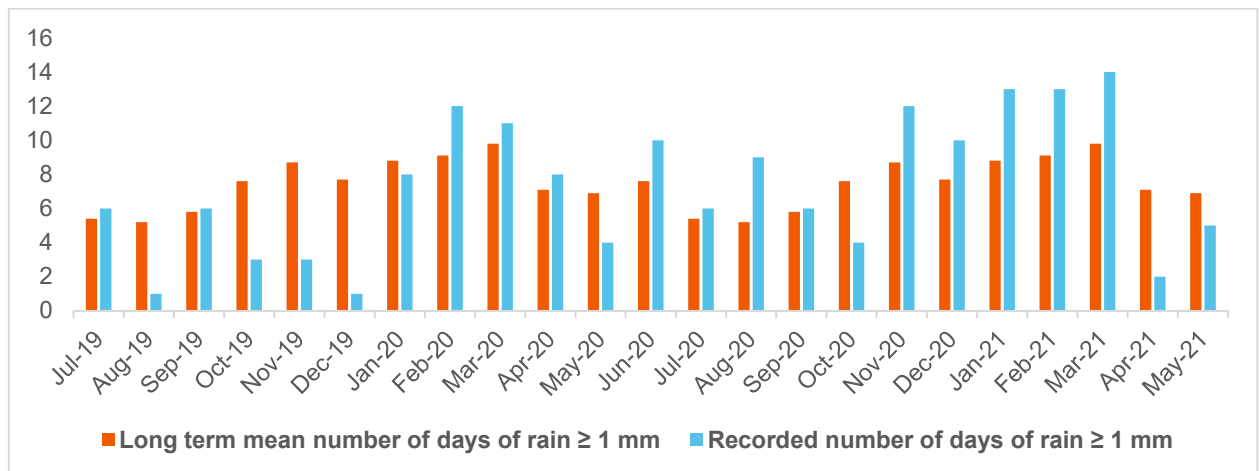


Figure 3-2 Monthly rain days comparison



3.3. Noise and Vibration

Table 3-3 provides a summary of noise monitoring events conducted during the reporting period. Detailed noise monitoring results and comments are presented in **Appendix A-2**. There were no exceedances of the predicted noise level ($L_{Aeq15min}$) during the reporting period.

Additional information on the hours of works, respite requirements and alternative accommodation is provided in the Noise and Vibration Management Sub-plan (Section 11.3).

Vibration monitoring events completed during the reporting period are summarised in **Table 3-4** and detailed results and comments are presented in **Appendix A-2**. Vibration monitoring undertaken during the reporting period was conducted by Renzo Tonin. All results were compliant. The Renzo Tonin report for vibration monitoring is pending and as such these results are not included in **Table 3-4** and **Appendix A-2**.

All noise and vibration monitors used during the reporting period, together with current NATA calibration data, are provided in **Table 3-5**.

Continuous noise and vibration monitoring was undertaken during the reporting period at medical facilities in Westmead that have been identified as sensitive receivers. In consultation with the Health Administration Corporation, monitoring will be ongoing for 12 months. Locations of the noise and vibration monitors are provided in **Table 3-6**.

Table 3-3 Summary of Noise Monitoring for reporting period

Date	Monitoring Location	Attended/Continuous	Description
30/04/2021	1 Noller Parade	Attended	Hammering tool, saw cutting in pit
30/04/2021	1A Noller Parade	Attended	General construction, saw cutting in pit
11/05/2021	199 Hawkesbury Road	Attended	Monthly ambient noise monitoring
11/05/2021	157 Hawkesbury Road	Attended	Monthly ambient noise monitoring
11/05/2021	55 O'Connell Street	Attended	Monthly ambient noise monitoring
11/05/2021	28 Railway Parade	Attended	Monthly ambient noise monitoring
11/05/2021	483 Church Street	Attended	Monthly ambient noise monitoring
11/05/2021	Bunya building, Cumberland East	Attended	Monthly ambient noise monitoring
19/05/2021	14 Dudley Street	Attended	Monthly ambient noise monitoring
19/05/2021	22 Adderton Road	Attended	Monthly ambient noise monitoring
19/05/2021	89 Marshall Road	Attended	Monthly ambient noise monitoring
19/05/2021	Carlingford Station	Attended	Monthly ambient noise monitoring
19/05/2021	Dundas Station	Attended	Monthly ambient noise monitoring



Date	Monitoring Location	Attended/Continuous	Description
19/05/2021	Teloepa Station	Attended	Monthly ambient noise monitoring
20/05/2021	Corner Macquarie/Smith Street	Attended	Monthly ambient noise monitoring
20/05/2021	George Street	Attended	Monthly ambient noise monitoring
26/06/2020 -ongoing	Westmead Institute for Medical Research (Sleep Lab)	Continuous	General construction
26/06/2020 -ongoing	Westmead Institute for Medical Research (Brain Dynamics Centre)	Continuous	General construction
26/06/2020 -ongoing	Children's Medical Research Institute (Microscopy Labs)	Continuous	General construction
26/06/2020 -ongoing	Cumberland Hospital (Clinical psychology rooms)	Continuous	General construction

Table 3-4 Summary of Vibration Monitoring for reporting period

Date	Monitoring Location	Attended/Continuous	Description
26/06/2020	Westmead Institute for Medical Research (HAL incubators)	Continuous	General construction
26/06/2020	Westmead Institute for Medical Research (Microscopy Labs)	Continuous	General construction
26/06/2020	Children's Medical Research Institute (Microscopy Labs)	Continuous	General construction



Table 3-5 Noise and Vibration Monitors and NATA Calibration

Equipment	Serial Number	Calibration Date
Noise Level Meter	00973277	2/12/2021
Noise Level Meter	00661732	19/05/2021*
Noise Level Meter	00973275	17/12/2021
Vibration Monitor	BE14639	10/02/2023
Vibration Monitor	BE17441	16/07/2021

* Noise Level Meter 00661732 was not in use after 18 May 2021; the unit is currently being calibrated.

Table 3-6 HAC Noise and Vibration Monitor Locations

Organisation	Monitor Type	Location
Westmead Institute for Medical Research	Vibration Monitor	HAL incubators
		Microscopy Labs
	Noise Monitor	Sleep Lab
Children's Medical Research Institute	Vibration Monitor	Microscopy Labs
	Noise Monitor	Labs (Level 1)
Cumberland Hospital	Noise Monitor	Clinical psychology rooms

Note: The calibration of the monitoring equipment is checked in the field before and after the noise measurement period per Standards Australia AS/IEC 60942:2004/IEC 60942:2003–Electroacoustic – Sound Calibrators.

3.4. Soil and Water

3.4.1. Water quality in receiving waters

A pre-construction investigation to establish water quality objectives for the project is included within the EIS Technical Paper 6 – Water Quality Assessment.

During the reporting period, quarterly wet weather monitoring was undertaken summarised in **Table 3-7** and detailed in **Table A-3-1**. This monitoring was undertaken during a 65.2 mm nine-day rainfall event. Water levels were very low to medium during the dry sampling. Overall, there was a moderate amount of debris or leaf litter present. All results were within the water quality objectives during the reporting period, except for one location exceeding the ANZECC guidelines for pH. This exceedance was at an upstream location and considered not to be impacted by Parramatta Connect works. As such, no further action was required.



Table 3-7 Water Quality in Receiving Waters

Date	Type	Type of Results	Wet / Dry	Locations
10/05/2021	Monitoring during construction	Laboratory	Wet	Parramatta River: PR1, PR2, PR3, PR4, PR5 and PR6 Clay Cliff Creek: CC1, CC2 Domain Creek: DC1 Vineyard Creek: VY1, VY2 Subiaco Creek: SC1 A'becketts Creek: AC1, AC2 Works near VY3 have concluded and as such monitoring is no longer required for this location.

Table 3-8 Water Monitor Calibration

Equipment ¹	Serial Number	Calibration Date
Water Quality Monitor	DV7F6E7J	21/08/2021

¹All equipment is calibrated by NATA standards.

3.4.2. Discharge and dewatering

There were six discharge events during the reporting period as presented in **Table A-3-2**. All events were compliant with discharge criteria.

3.5. Air Quality

3.5.1. Dust Deposition Monitoring

A dust deposition gauge was installed at 13A Grand Avenue in Camellia in December 2019 in advance of works which commenced at the beginning of February 2020. Baseline data indicated that the value of Total Insoluble Matter (TIM) was 3.9 g/m² before the commencement of construction activities at 13A Grand Avenue.

Additional dust gauges were progressively installed at Rydalmere Station, Dundas Station, Carlingford and Telopea in advance of large-scale earthworks.

From December 2020 onwards, results have been presented as both TIM and Ash Content. The Ash Content method of analysis involves burning the TIM in a furnace to rid the sample of combustible materials such as vegetative matter, coal and insects. The remaining non-combustible material is then weighed to provide a more accurate dust monitoring result.

Dust deposition results are summarised in **Table A-4-1** in **Appendix A-4**, noting that data is received one month in arrears. All results from the previous reporting period had a satisfactory level of both TIM and Ash Content.



3.5.2. Asbestos Fibre Monitoring

Asbestos air monitoring is completed in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

Asbestos Fibre Monitoring results are summarised in **Table A-4-2** in **Appendix A-4**. All reported results were satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in Work, Health and Safety (2017) Regulation; and SafeWork NSW (2019) Code of Practice – How to Safely Remove Asbestos.

3.6. Flora and Fauna

3.6.1. Grey-Headed Flying Fox Monitoring

A Grey-Headed Flying Fox (GHFF) camp is located in Parramatta Park which lies approximately 150m from the project boundary at the nearest point.

Under Condition of Approval C9, a GHFF Construction Monitoring Program has been developed by TfNSW. The requirements of this Program have been reflected in the Flora and Fauna Management Sub-plan and include visual inspections on a weekly basis during the 'high risk' months of September to January. If distress is observed within the camp, immediate notification must be provided to TfNSW.

In addition, as required by the Environmental Work Method Statement for Bridge Road Bridge, a trained ecologist from Narla Environmental is required to undertake additional inspections of the camp during bridge piling works (**Table 3-9**). As these works have concluded, it was determined that Narla monitoring was not required for the reporting period.

Visual inspections by Parramatta Connect resumed in place of the Narla monitoring. During the reporting period, no indicators of stress or abnormal behaviour were observed during inspections.



Table 3-9 Observations from Visual Monitoring of Grey Headed Flying Fox Camp

Date	Time	Works	Notification Triggers ¹	Comments
03/05/2021	14:30	Bridge centre pier works	None	Calm. No disturbance. No works audible at the colony.

¹Notification triggers include: >50% of the roost takes flight for over 20 minutes, GHFF leaving the roost in daylight hours, unusual vocalisations, located on or 2m from the ground, panting, saliva spreading, adults moving away from young, GHFF injured or killed on site (including aborted foetuses).

3.7. Issues/incidents/non-compliance

Table 3-10 provides a summary of environmental compliance during the reporting period, including one non-compliance and one environmental incident.

Table 3-10 Issues/incidents/non-compliances

Date	Location	Description
27/04/2021	Adderton Road	A minor fuel spill (<5 L) was identified at Adderton Road. The spill kit was deployed and the impacted material appropriately disposed.
12/05/2021	Factory Street	Concrete saw cutting was undertaken on Factory Street at 6:50am. In accordance with the Planning Approval and the Environment Protection Licence, this activity is not permitted to commence until 8:00am.



Appendices

A-1 Weather Observations

Table A-1-1 Weather Observations: Parramatta North (Masons Drive) {station 066124}.

Date	Temperatures		Rain	Temp	RH	9:00 AM		
	Min	Max				Temp	Dir	Spd
	°C	°C	mm	°C	%	8th	km/h	
26/04/2021	9	23.4	0	16.3	79	0	W	2
27/04/2021	10.8	23	0	17.2	80	0	WSW	2
28/04/2021	10.8	22	0	17.4	84	6	W	2
29/04/2021	9.6	23.7	0	15.6	88	0	W	4
30/04/2021	10.4	23.8	0	16.4	84	4	WSW	2
1/05/2021	11.2	23.2	0	16.4	96	5	NW	2
2/05/2021	11.3	23.8	0	15.8	97	5	W	4
3/05/2021	11.6	25.7	0	14.5	97	4	WNW	2
4/05/2021	13.2	16	0.4	15.5	93	8	W	2
5/05/2021	13.2	19.6	12.6	15	98	8	SW	2
6/05/2021	14.2	21.2	26	18.6	98	8	ESE	37
7/05/2021	17.2	21.5	23	19.8	97	8	S	6
8/05/2021	14.2	25.2	3.2	19	94	6	NW	4
9/05/2021	13.4	19.8	0	17.6	76	8	NW	2
10/05/2021	11.8	24.3	0	18.4	66	0	NW	6
11/05/2021	13	22.2	0.2	19.4	72	6	NNW	6
12/05/2021	10.3	22	0.2	17.7	75	4	SE	6
13/05/2021	11.3	23.3	0	17.4	75	0	W	6
14/05/2021	10	20.2	0	16.5	54	0	W	9
15/05/2021	4.5	16.6	0	13.5	67	3	W	6
16/05/2021	5	18.5	0	12.8	55	0	SW	7
17/05/2021	5.2	19.8	0	15.2	55	0	SW	7
18/05/2021	4.8	20	0	12.8	68	0	NW	4
19/05/2021	6.2	20.7	0	11	81	0	W	6
20/05/2021	5	22	0	12	74	4	WSW	6
21/05/2021	7.6	17	0	12.6	77	8	W	2
22/05/2021	5.2	20.7	0.6	11.2	82	2	S	2
23/05/2021	7.7	21	0	14	78	5	W	2
24/05/2021	10.5	20.7	1.2	16	98	6	W	2
25/05/2021	8.2	21.4	0	13.6	93	0	ENE	2



Table A-1-2 Wind Observations: Sydney Olympic Park AWS (Archery Centre) {station 066212}.

Date	Maximum Wind Gusts			9:00 AM		3:00 PM	
	Direction	Speed	Time	Direction	Speed	Direction	Speed
		km/h	local		km/h		km/h
26/04/2021	ESE	20	15:34	WNW	7	NE	7
27/04/2021	ESE	24	15:18	WNW	7	E	9
28/04/2021	ESE	20	14:44	NW	2	E	11
29/04/2021	SE	22	14:19	NW	9	ESE	15
30/04/2021	ESE	24	15:07	WNW	7	E	13
1/05/2021	ESE	17	17:08	NW	7	ESE	7
2/05/2021	N	20	13:21	NW	2	ENE	11
3/05/2021	NW	17	10:20	NW	7	E	4
4/05/2021	SW	17	0:40	WNW	4	S	2
5/05/2021	WSW	20	14:21	W	2	SW	9
6/05/2021	S	54	8:25	S	24	SE	19
7/05/2021	ESE	31	9:38	S	13	SSE	13
8/05/2021	NW	20	13:09	WNW	9	NW	9
9/05/2021	WNW	11	10:10		Calm	NW	2
10/05/2021	NW	33	14:35	WNW	9	WNW	13
11/05/2021	WSW	30	14:24		Calm	S	11
12/05/2021	ESE	24	11:43	W	6	ESE	13
13/05/2021	NW	20	14:22	W	9	NW	9
14/05/2021	WNW	35	11:38	W	11	W	13
15/05/2021	SSW	54	12:41	NW	7	WNW	20
16/05/2021	W	24	9:31	WNW	9	WNW	9
17/05/2021	W	31	9:09	W	11	ESE	13
18/05/2021	N	19	13:59	W	7	N	7
19/05/2021	N	20	13:05	WNW	9	NW	6
20/05/2021	W	24	13:22	NW	6	SSW	9
21/05/2021	S	24	15:43	WNW	6		Calm
22/05/2021	WNW	17	9:03	NW	9	SE	2
23/05/2021	SE	20	14:42	WNW	9	SE	11
24/05/2021	E	20	16:03	NW	2		Calm
25/05/2021	N	28	11:58	SW	4	N	7

Notes:

Blue text indicates a rain event greater than 1mm of rain.

The orange text indicates a rain event greater than the 80th percentile of 25.8mm, and a wind speed of greater than 25km/hr

Red text indicates a rain event greater than the 85th percentile of 33.1mm, and a wind speed greater than 50km/hr.

* Data was unavailable.

A-2 Noise and Vibration Monitoring Results

Table A-2-1 Noise Monitoring Results

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Additional Mitigation Measures	L _{Amax}	Recorded L _{eq, 15min} (dBA)	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
30/04/2021	10:58	Standard Hours	Hammering Tool, Saw cutting in pit	George Street	1 Noller Parade	68	102	-	75.4	56.2	-43.8	No	Construction noise sometimes audible. Public vehicles were the main noise source.
30/04/2021	10:40	Standard Hours	Saw cutting in pit	George Street	1A Noller Parade	68	102	-	79.1	61.5	-38.5	No	Construction noise audible most times.
11/05/2021	8:00	Standard Hours	Material Movements	28 Railway Parade	8-12 Alexandra Avenue	59	60	-	67	59.2	-0.8	No	Verification noise monitoring. Construction noise inaudible. Light vehicles operating.
11/05/2021	10:00	Standard Hours	Form-reo Pour	Factory/O'Connell Street	55 O'Connell Street	52	100	-	77	74.1	-25.9	No	Verification noise monitoring. Construction noise sometimes audible. O'Connell Street traffic contributed to noise.
11/05/2021	8:30	Standard Hours	Material Movements	Hawkesbury Road	157 Hawkesbury Road	61	98	-	75	64.8	-33.2	No	Verification noise monitoring. Construction noise sometimes audible.
11/05/2021	9:00	Standard Hours	Combined Service Route/Drainage	Hawkesbury Road	199 Hawkesbury Road	59	70	-	82	73	-27.0	No	Verification noise monitoring. Construction noise clearly audible.
11/05/2021	11:30	Standard Hours	Crane Pad	Cumberland Bridge	Bunya East	65	80	-	87	77	-3.0	No	Verification noise monitoring. Construction noise clearly audible.
11/05/2021	11:00	Standard Hours	Form-reo Pour	Pennant Hills Road to Factory	483 Church Street	61	108	-	75	78	-30	No	Verification noise monitoring. Construction noise is dominant noise source.
19/05/2021	7:34	Standard Hours	Fencing work	Carlingford	Carlingford Station	62	65	-	77.9	63.1	-1.9	No	Verification noise monitoring. Construction noise sometimes audible. Bus and traffic noise were the dominant noise source.
19/05/2021	7:00	Standard Hours	Active Transport Link Works	Adderton Road	22 Adderton Road	56	65	-	78.8	64.5	-0.5	No	Verification noise monitoring. Construction noise audible at most times. Traffic was the dominant noise source.
19/05/2021	10:39	Standard Hours	Combined Service Route Works	Dundas Station	Dundas Station	55	65	-	85.7	63.5	-1.5	No	Verification noise monitoring. Construction noise is dominant noise source.
19/05/2021	8:26	Standard Hours	Laying Sleepers	Teloepa	89 Marshall Road	52	70	-	78.8	65.6	-4.4	No	Verification noise monitoring. Construction noise audible at most times. Birds were dominant noise source.
19/05/2021	10:59	Standard Hours	Active Transport Link/Capping	Dudley Street	14 Dudley Street	55	65	-	80.8	64.7	-0.3	No	Verification noise monitoring. Construction noise is dominant noise source.
19/05/2021	9:46	Standard Hours	Loading Bogie	Teloepa Station	Teloepa Station	53	65	-	84.9	62.9	-2.1	No	Verification noise monitoring. Construction noise audible at most times.
20/05/2021	14:28	Standard Hours	Monthly Ambient Noise Monitoring	Arthur Phillip High School	Corner Macquarie/Smith Street	69	75	-	86.2	70.6	-4.4	No	Verification noise monitoring. No works occurring at time of monitoring. Construction noise inaudible. Dominant noise source was T-light generator next to monitoring location.
20/05/2021	14:50	Standard Hours	Excavator, Rolling	George Street	1 Noller Parade	68	65	-	76.8	56.4	-8.6	No	Verification noise monitoring. Construction noise audible at most times. Traffic was the dominant noise source.
26/06/2020 - ongoing	Continuous monitoring	Construction works	Hawkesbury Road works	Westmead Institute for Medical Research (Sleep Lab)		65	*	*	*	*	*	No	Activities are reviewed in response to exceedance alerts. Where the exceedance is attributed to construction, a review is undertaken of works and plant/equipment or methodology is modified where necessary.
26/06/2020 - ongoing	Continuous monitoring	Construction works	Hawkesbury Road works	Westmead Institute for Medical Research		65	*	*	*	*	*	No	

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML Predicted (dBA)	Predicted (dBA)	Additional Mitigation Measures	L _{Amax}	Recorded L _{eq, 15min} (dBA)	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
					(Brain Dynamics Centre)								
26/06/2020 - ongoing	Continuous monitoring	Construction works	Hawkesbury Road works	Children's Medical Research Institute (Microscopy Labs)		65	*	*	*	*	*	No	No exceedances were attributed to Parramatta Connect construction activities.
26/06/2020 - ongoing	Continuous monitoring	Construction works	Cumberland Hospital	Cumberland Hospital (Clinical psychology rooms)		55	*	*	*	*	*	No	Continuous monitoring values are available on request.

*Sound Pressure Level (SPL) used instead of NML

Notes:

Standard hours:

- a) All areas excluding Eat Street and Camellia – Monday to Friday 7:00 am to 7:00 pm. Saturday 8:00 am to 6:00 pm
- b) Eat Street (Church Street between Palmer Street and George Street) – Monday to Friday 7:00 am to 6:00 pm. Saturday 8:00 am to 12:00 pm
- c) Camellia, Rosehill and Rydalmere (east of James Ruse Drive to Victoria Road) – 24 hours a day and seven days a week provided that sensitive receivers are not affected by noise levels of greater than 5 dBA above the rating background level at any residence

OOHW Period 1 is defined as:

- a) 6:00pm to 10:00pm (evenings) Monday to Saturday
- b) 7:00am to 8:00am and 1:00pm to 10:00pm (day & evening) Saturday and
- c) 8:00am to 6:00pm Sunday and public holidays (days).

OOHW Period 2 is defined as:

- a) 10:00pm to 7:00am (nights) Monday to Saturday and 6:00pm to 8:00am (nights) Sundays and public holidays.

Additional Mitigation Measures

- PN = Project Notification
- V = Verification Monitoring
- RP = Respite Period
- AA = Alternate Accommodation
- SN = Specific Notification / individual briefing or phone call
- DR = Duration Reduction
- RO = Project Specific Respite Offer

Table A-2-2 Vibration Monitoring Results

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	Trigger Value (mm/s)	95 th Percentile PPV (mm/s)	Maximum PPV (mm/s)	Exceedance of Target	Construction Vibration Exceedance	Comments
26/06/2020	Continuous monitoring	Hawkesbury Road works	Hawkesbury Road	Westmead Institute for Medical Research (HAL incubators)	0.1 mm/s	*	No	No	Activities are reviewed in response to exceedance alerts. Where the exceedance is attributed to construction, a review is undertaken of works and plant/equipment or methodology is modified where necessary.		
26/06/2020	Continuous monitoring	Hawkesbury Road works	Hawkesbury Road	Westmead Institute for Medical Research (Microscopy Labs)	0.1 mm/s	*	No	No	No exceedances were attributed to PLR construction activities.		
26/06/2020	Continuous monitoring	Hawkesbury Road works	Hawkesbury Road	Children's Medical Research Institute (Microscopy Labs)	0.1 mm/s	*	No	No	Continuous monitoring values are available on request.		

A-3 Water Sampling and Discharge Results

Table A-3-1 Water Quality Monitoring - Comments and observations

Location	Waterway	Upstream/ Downstream of Works	Type ³	Date	Time	pH 5.5- 8.5 ²	Elec. Conduct. (µS/cm) LR ¹ : 125– 2200 ² E: None	Turbidity (NTU) 6-50 ²	Comments and Observations
AC1	A'becketts Creek	Upstream	Wet	10/05/2021	14:53	7.89	1530	9.2	Sunny weather, large amount of rubbish, moderate turbidity, moderate leaf litter and vegetation.
AC2	A'becketts Creek	Downstream	Wet	10/05/2021	15:06	8.01	1440	12.8	Sunny weather, large amount of rubbish, moderate turbidity, moderate leaf litter and vegetation.
CC1	Clay Cliff Creek	Upstream	Wet	10/05/2021	12:55	8.56	2110	7.1	Sunny weather, moderate rubbish, clear water, moderate vegetation, and minimal leaf litter. Exceedance of ANZECC Guideline Trigger Value for pH noted; location is upstream and not affected by Parramatta Connect works.
CC2	Clay Cliff Creek	Downstream	Wet	10/05/2021	13:15	8.23	4480	5.4	Fine weather, large amount of rubbish, clear water, moderate leaf litter. CC2 is noted to be an estuarine environment and as such there is not a trigger value for electrical conductivity.
DC1	Domain Creek	Upstream	Wet	10/05/2021	11:08	7.33	291	6.1	Sunny weather, no rubbish, clear water, moderate vegetation and minimal leaf litter.
PR1	Parramatta River	Upstream	Wet	10/05/2021	11:50	7.57	378	10.1	Sunny weather, no rubbish, slightly turbid, minimal leaf litter.
PR2	Parramatta River	Downstream	Wet	10/05/2021	12:05	7.57	357	10.4	Sunny weather, no rubbish, slightly turbid, minimal leaf litter.
PR3	Parramatta River	Upstream	Wet	10/05/2021	10:00	7.45	277	10.3	Sunny weather, no rubbish, moderate leaf litter, clear water
PR4	Parramatta River	Downstream	Wet	10/05/2021	10:15	7.57	303	11.4	Sunny weather, no rubbish, no leaf litter, clear water.



PR5	Parramatta River	Upstream	Wet 10/05/2021	13:38	7.67	25700	5.6	Clear sky, no rubbish, clear water, no leaf litter. PR5 is noted to be an estuarine environment and as such there is not a trigger value for electrical conductivity.
PR6	Parramatta River	Downstream	Wet 10/05/2021	15:45	7.69	26600	6.2	Sunny weather, minimal rubbish, clear water, no leaf litter. PR6 is noted to be an estuarine environment and as such there is not a trigger value for electrical conductivity.
SC1	Subiaco Creek	Upstream	Wet 10/05/2021	16:35	7.61	16200	9.7	Fine weather, no rubbish, slightly turbid water, moderate leaf litter and vegetation. SC1 is noted to be an estuarine environment and as such there is not a trigger value for electrical conductivity.
VY1	Vineyard Creek	Upstream	Wet 10/05/2021	16:05	7.58	718	20.7	Sunny weather, no rubbish, slightly turbid, minimal vegetation, and leaf litter.
VY2	Vineyard Creek	Downstream	Wet 10/05/2021	16:15	7.46	584	18	Sunny weather, no rubbish, slightly turbid, minimal vegetation, and leaf litter, lots of algae visible under water surface.

1. ANZECC Waterway types: Fresh water (PR1, PR2, PR3, PR4, VY1 and VY2); E: Estuarine (CC1, CC2, AC1, AC2, PR5, PR6 and SC1).
2. Trigger values were established by Parramatta Connect within the Pre-Construction Sampling (Baseline Review) Water Quality Monitoring Report (PLR1INF-CPBD-ALL-WA-RPT-000003). **Red text** indicates values outside of the baseline trigger values.
3. Charles Street Weir separates Parramatta River from up and downstream.



Table A-3-2 Discharge Water Quality

Discharge monitoring Point ID	Type of Monitoring Point	Type of Discharge Point	Date	Discharge Permit #	Oil and Grease (Not visible)	pH (6.5 - 8.5)	Turbidity (NTU)	Comments
A1.43, A1.44	Basins and settling containers	Stormwater inlet, Vac Truck	7/05/2021	DW-A1-038	Not visible	7.1	0	Discharge to stormwater 1.43, 1.44
A1.43, A1.44	Basins and settling containers	Stormwater inlet, Vac Truck	7/05/2021	DW-A1-039	Not visible	7.1	0	Discharge to stormwater 1.43, 1.44
A1.41	Basins and settling containers	Stormwater inlet	7/05/2021	DW-A1-040	Not visible	8.1	0	Discharge to stormwater 1.41
A1.41	Basins and settling containers	Stormwater inlet	10/05/2021	DW-A1-041	Not visible	8.1	0	Discharge to stormwater 1.41
A1.43, A1.44	Basins and settling containers	Stormwater inlet	7/05/2021	DW-A1-042	Not visible	7.1	0	Discharge to stormwater 1.43,1.44
A1.43, A1.44	Basins and settling containers	Stormwater inlet	11/05/2021	DW-A1-043	Not visible	7.4	0	Discharge to stormwater 1.43, 1.44

A-4 Air Quality Monitoring Results

Table A-4-1 Summary of Dust Deposition Data (Ash Content)

Date	Monitoring Location	Ash Content g/m ² /month	Total Insoluble Matter (g/m ² /month)
April	13a Grand Avenue	1.0	1.4
April	Rydalmere Station	0.4	0.5
April	Dundas Station	0.7	0.9
April	Telopea	0.7	2.5
April	Carlingford	0.2	0.3



Table A-4-2 Summary of Asbestos Fibre Monitoring

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR232	26-Apr	CAMELLIA JUNCTION - EAST OF SITE SHEDS	7:32	15:40	0/100	<0.01
AMR232	26-Apr	CAMELLIA JUNCTION - SOUTH OF STORMWATER TRENCHING	7:33	15:42	0/100	<0.01
AMR232	26-Apr	CAMELLIA JUNCTION - NORTH OF STORMWATER TRENCHING	7:35	15:43	0/100	<0.01
AMR232	26-Apr	CAMELLIA JUNCTION - NORTH EAST OF STORMWATER TRENCHING	7:37	15:45	1/100	<0.01
AMR232	26-Apr	CAMELLIA JUNCTION - EAST BOUNDARY FENCE ADJ HAUL ROAD	7:51	15:49	0/100	<0.01
AMR232	26-Apr	13A GRAND AVE - CAMELLIA JUNCTION - NORTH BOUNDARY FENCE	7:53	15:51	1/100	<0.01
AMR232	26-Apr	13A GRAND AVE -NORTH BOUNDARY	7:00	16:00	0/100	<0.01
AMR232	26-Apr	13A GRAND AVE - EAST BOUNDARY	7:01	16:01	0/100	<0.01
AMR232	26-Apr	13A GRAND AVE - SOUTH BOUNDARY	7:02	16:02	0/100	<0.01
AMR232	26-Apr	13A GRAND AVE - WEST BOUNDARY	7:03	16:03	0/100	<0.01
AMR233	27-Apr	CAMELLIA JUNCTION, SOUTH BOUNDARY APPROX 40M WEST OF SE GATE	7:26	15:45	0/100	<0.01
AMR233	27-Apr	CAMELLIA JUNCTION, EAST BOUNDARY APPROX 10M NORTH OF SE GATE	7:27	15:46	0/100	<0.01
AMR233	27-Apr	CAMELLIA JUNCTION, EAST BOUNDARY ADJACENT TO START OF RETAINING WALL 3M	7:28	15:47	0/100	<0.01
AMR233	27-Apr	CAMELLIA JUNCTION, SOUTH WEST CORNER	7:29	15:48	0/100	<0.01
AMR233	27-Apr	RETAINING WALL 1, WEST BOUNDARY OPPOSITE MIDDLE GATE	7:40	15:52	0/100	<0.01



AMR233	27-Apr	RETAINING WALL 1, EAST BOUNDARY APPROX 10M NORTH OF MIDDLE GATE	7:41	15:53	0/100	<0.01
AMR233	27-Apr	RETAINING WALL 1, EAST BOUNDARY APPROX 30M NORTH OF MIDDLE GATE	7:42	15:54	0/100	<0.01
AMR233	27-Apr	RETAINING WALL 1, WEST BOUNDARY APPROX 30M NORTH OF MIDDLE GATE	7:43	15:55	0/100	<0.01
AMR233	27-Apr	13A GRAND AVE - S BOUNDARY OF WORKS	7:42	15:36	0/100	<0.01
AMR233	27-Apr	13A GRAND AVE - W SITE BOUNDARY	7:43	15:37	0/100	<0.01
AMR233	27-Apr	13A GRAND AVE - N BOUNDARY OF WORKS	7:45	15:38	0/100	<0.01
AMR233	27-Apr	13A GRAND AVE - E SITE BOUNDARY	7:46	15:40	1/100	<0.01
AMR234	28-Apr	13A GRAND AVE - S BOUNDARY OF WORKS	7:14	14:42	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - E BOUNDARY OF WORKS	7:17	14:45	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - N BOUNDARY OF WORKS	7:19	14:46	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - W BOUNDARY OF WORKS	7:21	14:48	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - S BOUNDARY OF WORKS	7:14	14:42	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - E BOUNDARY OF WORKS	7:17	14:45	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - N BOUNDARY OF WORKS	7:19	14:46	0/100	<0.01
AMR234	28-Apr	13A GRAND AVE - W BOUNDARY OF WORKS	7:21	14:48	0/100	<0.01
AMR234	28-Apr	CAMELLIA JUNCTION, SOUTH BOUNDARY AT SW CORNER	7:29	16:08	0/100	<0.01
AMR234	28-Apr	CAMELLIA JUNCTION, SE CORNER	7:30	16:07	0/100	<0.01
AMR234	28-Apr	CAMELLIA JUNCTION, EAST BOUNDARY APPROX 40M NORTH OF SE CORNER	7:31	16:06	0/100	<0.01


AMR234	28-Apr	CAMELLIA JUNCTION, APPROX 40M NORTH OF SW CORNER	7:32	16:05	0/100	<0.01
AMR234	28-Apr	RETAINING WALL 1, EAST BOUNDARY AT MIDDLE GATE	7:37	15:54	1/100	<0.01
AMR234	28-Apr	RETAINING WALL 1, EAST BOUNDARY APPROX 40M NORTH OF MIDDLE GATE	7:38	15:55	0/100	<0.01
AMR235	28-Apr	CAMELLIA JUNCTION, WEST OF SITE SHED, FENCE LINE	19:26	5:21	0/100	<0.01
AMR235	28-Apr	CAMELLIA JUNCTION, ON NORTH OF SOUTH EAST GATE, ATTACHED TO FENCE	19:28	5:22	0/100	<0.01
AMR235	28-Apr	CAMELLIA JUNCTION, ON EAST OF SOUTH EAST GATE, ATTACHED TO ELECTRICITY POLE	19:31	5:23	0/100	<0.01
AMR235	28-Apr	OVERPASS AREA, INTERNAL FENCING, EASTERN SIDE	19:34	5:24	0/100	<0.01
AMR235	28-Apr	CAMELLIA JUNCTION, 15M NORTH EAST OF SOUTH WEST GATE, ATTACHED TO ELECTRICITY POLE	20:29	5:25	0/100	<0.01
AMR236	29-Apr	CAMELLIA JUNCTION - WEST BOUNDARY	7:16	15:31	0/100	<0.01
AMR236	29-Apr	CAMELLIA JUNCTION - SOUTH BOUNDARY	7:17	15:32	0/100	<0.01
AMR236	29-Apr	CAMELLIA JUNCTION - SE BOUNDARY	7:18	15:33	0/100	<0.01
AMR236	29-Apr	CAMELLIA JUNCTION - NE BOUNDARY	7:19	15:34	0/100	<0.01
AMR236	29-Apr	CAMELLIA JUNCTION - APPROX 50M NORTH OF NE CORNER	7:20	15:35	0/100	<0.01
AMR236	29-Apr	OVERPASS STOCKPILE - WEST GATE	7:21	15:36	0/100	<0.01
AMR236	29-Apr	OVERPASS STOCKPILE - EAST GATE	7:22	15:37	0/100	<0.01

AMR236	29-Apr	13A GRAND AVE - S BOUNDARY OF WORKS	7:30	15:30	0/100	<0.01
AMR236	29-Apr	13A GRAND AVE - E SITE BOUNDARY	7:31	15:31	0/100	<0.01
AMR236	29-Apr	13A GRAND AVE - N BOUNDARY OF WORKS	7:32	15:32	0/100	<0.01
AMR236	29-Apr	13A GRAND AVE - W SITE BOUNDARY	7:33	15:33	0/100	<0.01
AMR237	29-Apr	CAMELLIA JUNCTION, APPROX 10M NORTH OF SE GATE	19:23	13:02	0/100	<0.01
AMR237	29-Apr	ADJACENT TO GATE OF BUILDING CARPARK	19:24	13:03	0/100	<0.01
AMR237	29-Apr	STOCKPILE AREA, EAST BOUNDARY, APPROX 10M SOUTH OF ROAD	19:25	13:04	0/100	<0.01
AMR237	29-Apr	ADJACENT TO CRIB SHED	19:26	13:05	0/100	<0.01
AMR238	30-Apr	CAMELLIA JUNCTION, WEST SECTION, SOUTHERN BOUNDARY FENCING	7:28	15:09	0/100	<0.01
AMR238	30-Apr	CAMELLIA JUNCTION, WEST SECTION, NORTH BOUNDARY SECTION	7:29	15:10	0/100	<0.01
AMR238	30-Apr	CAMELLIA JUNCTION, EAST SECTION, ATTACHED TO FENCE 20M NORTH OF SOUTH EAST GATE	7:31	15:11	0/100	<0.01
AMR238	30-Apr	CAMELLIA JUNCTION, EAST SECTION, ATTACHED TO FENCE 3M NORTH OF SOUTH EAST GATE	7:33	15:12	0/100	<0.01
AMR238	30-Apr	RETAINING WALL 1, EAST BOUNDARY, ATTACHED TO FENCE ADJACENT TO MIDDLE GATE	7:40	15:00	0/100	<0.01
AMR238	30-Apr	RETAINING WALL 1, EAST BOUNDARY, ATTACHED TO FENCE 30M NORTH OF MIDDLE GATE	7:48	15:01	0/100	<0.01
AMR238	30-Apr	RETAINING WALL 1, WEST BOUNDARY, ATTACHED TO POLE 60M NORTH OF MIDDLE GATE	7:49	15:02	0/100	<0.01
AMR238	30-Apr	OVERPASS AREA, INTERNAL FENCING, WEST SIDE	8:00	15:14	0/100	<0.01

AMR238	30-Apr	OVERPASS AREA, INTERNAL FENCING, EAST SIDE	8:01	15:15	0/100	<0.01
AMR238	30-Apr	OVERPASS AREA, INTERNAL FENCING, NORTH EAST SIDE	8:02	15:16	0/100	<0.01
AMR238	30-Apr	13A GRAND AVE - S BOUNDARY OF WORKS	7:12	14:42	0/100	<0.01
AMR238	30-Apr	13A GRAND AVE - E SITE BOUNDARY	7:14	14:43	0/100	<0.01
AMR238	30-Apr	13A GRAND AVE - N BOUNDARY OF WORKS	7:17	14:45	0/100	<0.01
AMR238	30-Apr	13A GRAND AVE - W SITE BOUNDARY	7:19	14:46	0/100	<0.01
AMR239	30-Apr	CAMELLIA JUNCTION, APPROX 10M NORTH OF SE GATE	19:17	4:51	0/100	<0.01
AMR239	30-Apr	OVERPASS AREA, APPROX 10M SOUTH OF EAST GATE	19:18	4:52	0/100	<0.01
AMR239	30-Apr	CARPARK AREA, APPROX 10M SOUTH OF ACCESS ROAD	19:19	4:53	0/100	<0.01
AMR239	30-Apr	BLANK	19:20	4:54	0/100	<0.01
AMR240	1-May	ACCESS POINT TO STOCKPILE AREA, UNDERPASS	7:10	14:00	0/100	<0.01
AMR240	1-May	WEST BOUNDARY OF EXCAVATION, ACCESS ROAD	7:12	14:02	0/100	<0.01
AMR240	1-May	NORTH BOUNDARY OF EXCAVATION, ACCESS ROAD	7:14	14:04	0/100	<0.01
AMR240	1-May	NORTH END OF SITE, EAST BOUNDARY FENCE	7:20	14:10	0/100	<0.01
AMR241	1-May	SW OF TRENCH EXCAVATION	20:00	2:45	0/100	<0.01
AMR241	1-May	SE OF TRENCH EXCAVATION - ADJACENT CARPARK	20:01	2:47	0/100	<0.01
AMR241	1-May	NE OF TRENCH EXCAVATION	20:03	2:49	0/100	<0.01
AMR241	1-May	NW OF TRENCH EXCAVATION	20:04	2:51	0/100	<0.01
AMR242	3-May	CAMELLIA JUNCTION, SOUTH BOUNDARY APPROX 40M WEST OF SE GATE	7:47	15:58	0/100	<0.01
AMR242	3-May	CAMELLIA JUNCTION, SOUTH BOUNDARY APPROX 20M WEST OF SE GATE	7:48	15:57	0/100	<0.01
AMR242	3-May	CAMELLIA JUNCTION, EAST BOUNDARY APPROX 20M WEST OF SE GATE	7:49	15:56	1/100	<0.01
AMR242	3-May	CAMELLIA CUNTION, ADJACENT TO START OF RETAINING WALL 3A	7:50	15:55	0/100	<0.01

AMR242	3-May	RETAINING WALL 1, EAST BOUNDARY APPROX 40M SOUTH OF MIDDLE GATE	7:54	15:51	1/100	<0.01
AMR242	3-May	RETAINING WALL 1, WEST BOUNDARY AT MIDDLE GATE	7:55	15:50	0/100	<0.01
AMR242	3-May	RETAINING WALL 1, EAST BOUNDARY APPROX 30M NORTH OF MIDDLE GATE	7:56	15:49	0/100	<0.01
AMR242	3-May	RETAINING WALL 1, WEST BOUNDARY APPROX 50M NORTH OF MIDDLE GATE	7:57	15:48	2/100	<0.01
AMR242	3-May	RETAINING WALL 2, EAST BOUNDARY AT JAMES HARDIE BRIDGE	8:12	15:44	0/100	<0.01
AMR242	3-May	RETAINING WALL 2, WEST BOUNDARY APPROX 20M NORTH OF JHB	8:13	15:43	0/100	<0.01
AMR242	3-May	RETAINING WALL 2, EAST BOUNDARY APPROX 40M NORTH OF JHB	8:14	15:42	0/100	<0.01
AMR242	3-May	13A GRAND AVE - S BOUNDARY OF WORKS	7:19	15:10	0/100	<0.01
AMR242	3-May	13A GRAND AVE - E BOUNDARY OF WORKS	7:21	15:11	1/100	<0.01
AMR242	3-May	13A GRAND AVE - N BOUNDARY OF WORKS	7:23	15:13	2/100	<0.01
AMR242	3-May	13A GRAND AVE - W BOUNDARY OF WORKS	7:24	15:15	0/100	<0.01
AMR243	4-May	OVERPASS AREA, INTERNAL FENCING, NORTH SIDE	7:13	15:20	0/100	<0.01
AMR243	4-May	OVERPASS AREA, INTERNAL FENCING, EAST SIDE	7:14	15:21	1/100	<0.01
AMR243	4-May	OVERPASS AREA, INTERNAL FENCING, WEST SIDE	7:15	15:22	1/100	<0.01
AMR243	4-May	CAMELLIA JUNCTION, SOUTHERN BOUNDARY, ADJACENT CRIB ROOM	7:22	15:30	0/100	<0.01
AMR243	4-May	CAMELLIA JUNCTION, WESTERN SIDE NEAR BRIDGE, SOUTH FENCE LINE	7:23	15:31	1.5/100	<0.01

AMR243	4-May	CAMELLIA JUNCTION, NORTH WEST SIDE, ATTACHED TO SUPPORT POLE	7:27	15:32	0/100	<0.01
AMR243	4-May	CAMELLIA JUNCTION, NORTH EAST SIDE, ATTACHED TO FENCING	7:28	15:33	0/100	<0.01
AMR243	4-May	RETAINING WALL 1, ADJACENT MIDDLE GATE, EAST BOUNDARY FENCING	7:29	15:34	2/100	<0.01
AMR243	4-May	RETAINING WALL 1, 15M NORTH OF MIDDLE GATE, EAST BOUNDARY FENCING	7:51	15:23	0/100	<0.01
AMR243	4-May	ADJACENT BRIDGE OVER RIVER, EAST SIDE, ATTACHED TO METAL CONTAINER ADJACENT STOCKPILE	7:59	15:27	1/100	<0.01
AMR243	4-May	EASTERN BOUNDARY, ADJACENT GATE 22, ATTACHED TO POLE	8:02	15:28	0/100	<0.01
AMR243	4-May	13A GRAND AVE - NORTH CORNER	6:57	14:45	0/100	<0.01
AMR243	4-May	13A GRAND AVE - EAST CORNER	6:59	14:51	1.5/100	<0.01
AMR243	4-May	13A GRAND AVE - SOUTH EAST CORNER	7:01	14:53	0/100	<0.01
AMR243	4-May	13A GRAND AVE - NORTH WEST CORNER	7:03	14:48	2/100	<0.01
AMR244	10-May	13A GRAND AVE - NORTH CORNER	6:51	14:30	0/100	<0.01
AMR244	10-May	13A GRAND AVE - NORTH WEST CORNER	6:53	14:33	0/100	<0.01
AMR244	10-May	13A GRAND AVE - NORTH EAST CORNER	6:57	14:40	0/100	<0.01
AMR244	10-May	13A GRAND AVE - SOUTH CORNER	6:59	14:41	0/100	<0.01
AMR244	10-May	STOCKPILE AREA, EAST GATE	7:32	15:58	0/100	<0.01
AMR244	10-May	STOCKPILE AREA, WEST GATE	7:33	15:57	0/100	<0.01
AMR244	10-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 30M WEST OF SE GATE	7:35	15:56	2.5/100	<0.01



AMR244	10-May	CAMELLIA JUNCTION, EAST BOUNDARY, APPROX 10M NORTH OF SE GATE	7:36	15:55	0/100	<0.01
AMR244	10-May	CAMELLIA JUNCTION, EAST BOUNDARY, APPROX 40M NORTH OF SE GATE	7:37	15:54	0/100	<0.01
AMR244	10-May	CAMELLIA JUNCTION, EAST BOUNDARY AT START OF RETAINING WALL 3A	7:38	15:53	0/100	<0.01
AMR244	10-May	RETAINING WALL 3A, APPROX 50M NORTH OF SOUTH END	7:42	15:51	0/100	<0.01
AMR244	10-May	RETAINING WALL 3A, APPROX 20M SOUTH OF MIDDLE GATE	7:43	15:50	1/100	<0.01
AMR244	10-May	MIDDLE GATE, EAST BOUNDARY	7:44	15:49	0/100	<0.01
AMR244	10-May	APPROX 50M NORTH OF MIDDLE GATE	7:45	15:48	0/100	<0.01
AMR244	10-May	RETAINING WALL 2, EAST ADJACENT TO PARRAMATTA RIVER	7:59	15:43	0/100	<0.01
AMR244	10-May	RETAINING WALL 2, WEST, ADJACENT TO PARRAMATTA RIVER	8:00	15:42	0/100	<0.01
AMR244	10-May	RETAINING WALL 2, EAST, APPROX 30M SOUTH OF BRIDGE	8:01	15:41	0/100	<0.01
AMR245	11-May	13A GRAND AVENUE, EASTERN BOUNDARY FENCING	7:07	15:08	0/100	<0.01
AMR245	11-May	13A GRAND AVENUE, SOUTHERN BOUNDARY FENCING	7:09	15:07	0/100	<0.01
AMR245	11-May	13A GRAND AVENUE, WESTERN BOUNDARY FENCING	7:11	15:06	0/100	<0.01
AMR245	11-May	13A GRAND AVENUE, NORTHERN BOUNDARY FENCING	7:13	15:05	2/100	<0.01
AMR245	11-May	OVERPASS AREA, EASTERN GATE	7:12	15:18	2/100	<0.01
AMR245	11-May	OVERPASS AREA, WESTERN GATE	7:13	15:19	0/100	<0.01

AMR245	11-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 10M WEST OF SE CORNER	7:14	15:20	0/100	<0.01
AMR245	11-May	CAMELLIA JUNCTION, EAST BOUNDARY, APPROX 10M NORTH OF SE CORNER	7:15	15:21	1/100	<0.01
AMR245	11-May	RETAINING WALL 3A, SOUTH END	7:18	15:22	1/100	<0.01
AMR245	11-May	RETAINING WALL 3A, APPROX 20M NORTH OF SOUTH END	7:19	15:23	0/100	<0.01
AMR245	11-May	RETAINING WALL 3A, APPROX 40M NORTH OF SOUTH END	7:20	15:24	0/100	<0.01
AMR245	11-May	RETAINING WALL 3A, APPROX 60M NORTH OF SOUTH END	7:21	15:25	0/100	<0.01
AMR245	11-May	SOUTHEAST OF PARRAMATTA RIVER BRIDGE, ADJACENT TO BRIDGE	7:25	15:28	0/100	<0.01
AMR245	11-May	SOUTHEAST OF PARRAMATTA RIVER BRIDGE, APPROX 10M EAST OF BRIDGE	7:26	15:29	0/100	<0.01
AMR245	11-May	SOUTHEAST OF PARRAMATTA RIVER BRIDGE, APPROX 20M SE OF BRIDGE	7:27	15:30	1/100	<0.01
AMR246	12-May	NORTH CORNER	6:55	14:47	0/100	<0.01
AMR246	12-May	NORTH EAST CORNER	6:59	14:50	0/100	<0.01
AMR246	12-May	NORTH WEST CORNER	6:53	14:53	0/100	<0.01
AMR246	12-May	SOUTH CORNER	7:01	14:41	1/100	<0.01
AMR246	12-May	OVERPASS AREA, EAST GATE	7:18	16:08	1/100	<0.01
AMR246	12-May	OVERPASS AREA, WEST GATE	7:19	16:07	0/100	<0.01
AMR246	12-May	RETAINING WALL 3A, APPROX 20M NORTH OF SOUTH END	7:22	16:06	0/100	<0.01
AMR246	12-May	RETAINING WALL 3A, APPROX 40M NORTH OF SOUTH END	7:23	16:05	0/100	<0.01
AMR246	12-May	RETAINING WALL 3A, APPROX 60M NORTH OF SOUTH END	7:24	16:04	0/100	<0.01

AMR246	12-May	MIDDLE GATE, EAST BOUNDARY	7:25	16:03	0/100	<0.01
AMR246	12-May	NORTHERN SITE GATE, NEAR JAMES HARDIE BRIDGE	7:32	15:49	0/100	<0.01
AMR246	12-May	APPROX 20M SOUTH OF PARRAMATTA RIVER BRIDGE, ADJACENT TO HAUL ROAD	7:33	15:50	0/100	<0.01
AMR246	12-May	SOUTH EAST OF PARRAMATTA RIVER BRIDGE, APPROX 40M SOUTHWEST OF BRIDGE AT EAST BOUNDARY	7:34	15:51	1/100	<0.01
AMR247	13-May	RETAINING WALL 3A - SOUTH END	7:34	15:30	1/100	<0.01
AMR247	13-May	RETAINING WALL 3A - APPROX 15M NORTH OF SOUTH END	7:35	15:31	0/100	<0.01
AMR247	13-May	RETIANING WALL 3A - ADJACENT MIDDLE GATE	7:36	15:32	0/100	<0.01
AMR247	13-May	RETAINING WALL 3A - APPROX 10M NORTH OF MIDDLE GATE	7:37	15:33	0/100	<0.01
AMR247	13-May	PARAMATTA RIVER BRIDGE - ON BRIDGE	7:41	15:35	1/100	<0.01
AMR247	13-May	PARAMATTA RIVER BRIDGE - APPROX 15M SE OF BRIDGE	7:42	15:36	0/100	<0.01
AMR247	13-May	PARAMATTA RIVER BRIDGE - APPROX 30M SE OF BRIDGE, ADJACENT STOCKPILE	7:43	15:37	0/100	<0.01
AMR247	13-May	CAMELLIA JUNCTION - SE CORNER ADJACENT GATE	7:47	15:40	0/100	<0.01
AMR247	13-May	CAMELLIA JUNCTION - SE CORNER, EAST BOUNDARY	7:48	15:41	0/100	<0.01
AMR247	13-May	13A GRAND AVE - NORTH CORNER	6:49	14:49	0/100	<0.01
AMR247	13-May	13A GRAND AVE - NORTH EAST CORNER	6:52	14:56	0/100	<0.01
AMR247	13-May	13A GRAND AVE - NORTH WEST CORNER	6:57	14:59	0/100	<0.01
AMR247	13-May	13A GRAND AVE - SOUTH CORNER	6:58	15:00	0/100	<0.01
AMR248	14-May	OVERPASS AREA, EAST GATE	7:20	16:06	0/100	<0.01

AMR248	14-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 20M WEST OF SE CORNER	7:21	16:05	0/100	<0.01
AMR248	14-May	CAMELLIA JUNCTION, SE CORNER	7:22	16:04	0/100	<0.01
AMR248	14-May	CAMELLIA JUNCTION, EAST BOUNDARY APPROX 20M NORTH OF SE CORNER	7:23	16:03	0/100	<0.01
AMR248	14-May	RETAINING WALL 1 AREA, WEST BOUNDARY APPROX 50M SOUTH OF MIDDLE GATE	7:25	15:59	1.5/100	<0.01
AMR248	14-May	RETAINING WALL 1 AREA, EAST BOUNDARY APPROX 20M SOUTH OF MIDDLE GATE	7:26	15:58	0/100	<0.01
AMR248	14-May	RETAINING WALL 1 AREA, WEST BOUNDARY AT MIDDLE GATE	7:27	15:57	2/100	<0.01
AMR248	14-May	RETAINING WALL AREA, EAST BOUNDARY APPROX 40M NORTH OF MIDDLE GATE	7:28	15:56	1/100	<0.01
AMR248	14-May	NORTH EAST CORNER OF SITE, RAMP TO BRIDGE, 20M SOUTH OF BRIDGE	7:31	15:51	0/100	<0.01
AMR248	14-May	NORTH EAST CORNER OF SITE, EAST BOUNDARY, 50M SE OF BRIDGE	7:32	15:52	0/100	<0.01
AMR248	14-May	13A GRAND AVE - NORTH CORNER	6:53	14:53	0/100	<0.01
AMR248	14-May	13A GRAND AVE - NORTH EAST CORNER	6:55	14:57	2/100	<0.01
AMR248	14-May	13A GRAND AVE - NORTH WEST CORNER	7:01	14:59	1/100	<0.01
AMR248	14-May	13A GRAND AVE - SOUTH CORNER	7:03	15:01	0/100	<0.01
AMR249	15-May	GATE 22 - ADJ STOCKPILE	7:00	13:35	0/100	<0.01
AMR249	15-May	GATE 22 - ADJ EXCAVATION	7:04	13:33	0/100	<0.01
AMR249	15-May	MIDDLE GATE - NE OF EXCAVATION	7:08	13:39	0/100	<0.01
AMR249	15-May	MIDDLE GATE - EAST OF EXCAVATION	7:10	13:37	0/100	<0.01
AMR249	15-May	MIDDLE GATE - SE OF EXCAVATION	7:12	13:35	0/100	<0.01



AMR249	15-May	TOP GATE - NORTH OF EXCAVATION	7:15	13:22	0/100	<0.01
AMR249	15-May	TOP GATE - SOUTH OF EXCAVATION	7:17	13:20	0/100	<0.01
AMR249	15-May	13A - ADJ STOCK PILE LOADOUT	7:25	13:12	0/100	<0.01
AMR249	15-May	13A - ADJ EGRESS GATE	7:27	13:10	0/100	<0.01
AMR250	17-May	CAMELLIA JUNCTION - SE CORNER, SOUTH BOUNDARY	7:15	15:21	0/100	<0.01
AMR250	17-May	CAMELLIA JUNCTION - SE CORNER, EAST BOUNDARY	7:16	15:22	0/100	<0.01
AMR250	17-May	RETAINING WALL 3A - APPROX 40M SOUTH OF MIDDLE GATE	7:18	15:23	0/100	<0.01
AMR250	17-May	RETAINING WALL 3A - AT MIDDLE GATE	7:19	15:24	0/100	<0.01
AMR250	17-May	RETAINING WALL 3A - APPROX 20M NORTH OF MIDDLE GATE	7:20	15:25	0/100	<0.01
AMR250	17-May	PARRAMATTA RIVER BRIDGE - SOUTH OF EXCAVATION	7:23	15:28	0/100	<0.01
AMR250	17-May	PARRAMATTA RIVER BRIDGE - NORTH OF EXCAVATION	7:24	15:29	0/100	<0.01
AMR250	17-May	13A GRAND AVE - NORTH CORNER	6:40	14:00	0/100	<0.01
AMR250	17-May	13A GRAND AVE - NORTH EAST CORNER	6:42	14:10	0/100	<0.01
AMR250	17-May	13A GRAND AVE - NORTH WEST CORNER	6:44	14:12	0/100	<0.01
AMR250	17-May	13A GRAND AVE - SOUTH CORNER	6:46	14:13	0/100	<0.01
AMR251	17-May	NORTH	6:59	14:45	0/100	<0.01
AMR251	17-May	SOUTH	7:01	14:50	0/100	<0.01
AMR251	17-May	EAST, ENTRANCE GATE	7:02	14:59	0/100	<0.01
AMR251	17-May	WEST	7:07	14:51	0/100	<0.01
AMR252	18-May	NORTH CORNER	7:20	15:10	0/100	<0.01
AMR252	18-May	NORTH WEST CORNER	7:23	15:13	0/100	<0.01
AMR252	18-May	NORTH EAST CORNER	7:19	15:25	0/100	<0.01
AMR252	18-May	SOUTH CORNER	7:25	15:29	0/100	<0.01
AMR252	18-May	RETAINING WALL 3A, APPROX 80M SOUTH OF MIDDLE GATE	7:30	15:58	0/100	<0.01
AMR252	18-May	RETAINING WALL 3A, APPROX SOUTH OF MIDDLE GATE	7:31	15:57	0/100	<0.01
AMR252	18-May	RETAINING WALL 3A, APPROX AT MIDDLE GATE	7:32	15:56	0/100	<0.01
AMR252	18-May	RETAINING WALL 3A, APPROX 20M NORTH OF MIDDLE GATE	7:33	15:55	0/100	<0.01

AMR252	18-May	JAMES HARDIE BRIDGE, APPROX 20M SOUTH OF BRIDGE	7:45	15:50	0/100	<0.01
AMR252	18-May	JAMES HARDIE BRIDGE APPROX 30M EAST OF BRIDGE	7:46	15:49	0/100	<0.01
AMR252	18-May	JAMES HARDIE BRIDGE, APPROX 20M WEST OF BRIDGE	7:47	15:48	0/100	<0.01
AMR253	18-May	NORTH	6:49	14:53	0/100	<0.01
AMR253	18-May	SOUTH	6:51	14:50	0/100	<0.01
AMR253	18-May	EAST GATE	6:54	14:49	0/100	<0.01
AMR253	18-May	WEST ROADWAY	6:57	14:43	0/100	<0.01
AMR254	19-May	RETAINING WALL 3A, APPROX 80M SOUTH OF MIDDLE GATE	7:24	16:01	0/100	<0.01
AMR254	19-May	RETAINING WALL 3A, APPROX 40M SOUTH OF MIDDLE GATE	7:25	16:00	0/100	<0.01
AMR254	19-May	RETAINING WALL 3A, AT MIDDLE GATE	7:26	15:59	0/100	<0.01
AMR254	19-May	APPROX 20M NORTH OF MIDDLE GATE	7:27	15:58	0/100	<0.01
AMR254	19-May	NORTHERN GATE, WEST SIDE	7:38	15:54	0/100	<0.01
AMR254	19-May	NORTHERN GATE, EAST SIDE	7:39	15:53	0/100	<0.01
AMR254	19-May	BASE OF RAMP TO RIVER BRIDGE	7:40	15:52	0/100	<0.01
AMR254	19-May	13A, EAST BOUNDARY FENCING	7:06	14:40	0/100	<0.01
AMR254	19-May	13A, SOUTH BOUNDARY FENCING	7:09	14:43	0/100	<0.01
AMR254	19-May	13A, WEST BOUNDARY FENCING	7:11	14:47	0/100	<0.01
AMR254	19-May	13A, SOUTH BOUNDARY FENCING	7:14	14:49	0/100	<0.01
AMR255	20-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 20M WEST OF SE CORNER	7:23	16:01	1/100	<0.01
AMR255	20-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 20M SW OF SE CORNER	7:24	16:02	0/100	<0.01
AMR255	20-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 20M NORTH OF SE CORNER	7:25	16:03	0/100	<0.01
AMR255	20-May	RETAINING WALL 3A, APPROX 40M SOUTH OF MIDDLE GATE	7:39	15:58	0/100	<0.01
AMR255	20-May	RETAINING WALL 3A, APPROX AT MIDDLE GATE	7:40	15:57	1.5/100	<0.01



AMR255	20-May	EAST BOUNDARY, APPROX 20M NORTH OF MIDDLE GATE	7:41	15:56	0/100	<0.01
AMR255	20-May	EAST BOUNDARY, APPROX 50M NORTH OF MIDDLE GATE	7:42	15:55	2/100	<0.01
AMR255	20-May	NORTHERN GATE, WEST SIDE OF GATE, NEAR RAMP TO BRIDGE ABUTMENT	8:04	15:51	0/100	<0.01
AMR255	20-May	NORTHERN GATE, EAST SIDE OF GATE NEAR PARKING AREA	8:05	15:50	0/100	<0.01
AMR255	20-May	BASE OF RAMP UP TO RIVER BRIDGE	8:06	15:49	0/100	<0.01
AMR255	20-May	13A GRAND AVE - NORTH	6:53	14:53	2/100	<0.01
AMR255	20-May	13A GRAND AVE - SOUTH	6:55	14:45	0/100	<0.01
AMR255	20-May	13A GRAND AVE - EAST	6:57	14:49	0/100	<0.01
AMR255	20-May	13A GRAND AVE - WEST	7:00	14:57	1/100	<0.01
AMR256	21-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 15M WEST OF SE CORNER	7:23	16:06	0/100	<0.01
AMR256	21-May	CAMELLIA JUNCTION, SOUTH BOUNDARY, APPROX 20M NW OF SE CORNER	7:24	16:05	0/100	<0.01
AMR256	21-May	CAMELLIA JUNCTION, EAST BOUNDARY, APPROX 10M NORTH OF SE CORNER	7:25	16:04	0/100	<0.01
AMR256	21-May	RETAINING WALL 3A, APPROX 50M SOUTH OF MIDDLE GATE	7:30	16:01	0/100	<0.01
AMR256	21-May	RETAINING WALL 3A, APPROX AT MIDDLE GATE	7:31	16:00	0/100	<0.01
AMR256	21-May	EAST BOUNDARY, APPROX 20M NORTH OF MIDDLE GATE	7:32	16:59	0/100	<0.01
AMR256	21-May	EAST BOUNDARY, APPROX 50M NORTH OF MIDDLE GATE	7:33	16:58	0/100	<0.01
AMR256	21-May	NORTH GATE, WEST SIDE OF GATE, NEAR JAMES HARDIE ABUTMENT	7:36	16:53	0/100	<0.01
AMR256	21-May	NORTH GATE, EAST SIDE OF GATE NEAR PARKING AREA	7:37	16:52	0/100	<0.01
AMR256	21-May	RAMP UP TO RIVER BRIDGE, ON CONCRETE BARRIER	7:38	16:51	0/100	<0.01
AMR256	21-May	13A GRAND AVE - NORTH CORNER	6:49	14:45	0/100	<0.01
AMR256	21-May	13A GRAND AVE - NORTH EAST CORNER	6:53	14:48	0/100	<0.01
AMR256	21-May	13A GRAND AVE - NORTH WEST CORNER	6:51	14:51	0/100	<0.01
AMR256	21-May	13A GRAND AVE - SOUTH CORNER	7:01	14:55	0/100	<0.01

AMR257	22-May	CAMELLIA JUNCTION, SOUTH BOUNDARY FENCE	7:05	12:50	0/100	<0.01
AMR257	22-May	CAMELLIA JUNCTION, EAST BOUNDARY FENCE	7:07	12:51	0/100	<0.01
AMR257	22-May	CAMELLIA JUNCTION, NORTH SECTION ADJACENT OPEN FENCE	7:08	12:52	0/100	<0.01
AMR257	22-May	CAMELLIA JUNCTION, WEST SECTION FENCE	7:09	12:53	0/100	<0.01
AMR257	22-May	MIDDLE GATE, 10M SOUTH OF GATE ON EASTERN FENCING	7:15	12:55	0/100	<0.01
AMR257	22-May	MIDDLE GATE, ADJACENT FENCING	7:17	12:56	0/100	<0.01
AMR257	22-May	GATE 22, ADJACENT EXCAVATION	7:20	13:05	0/100	<0.01
AMR257	22-May	GATE 22, ADJACENT STOCKPILE	7:22	13:08	0/100	<0.01
AMR258	24-May	CAMELLIA JUNCTION, ADJACENT TO LUNCH SHED	7:48	15:31	0/100	<0.01
AMR258	24-May	CAMELLIA JUNCTION, SE CORNER	7:49	15:30	0/100	<0.01
AMR258	24-May	CAR PARK AREA, EASTERN FENCE OF OVERPASS AREA	7:50	15:29	0/100	<0.01
AMR258	24-May	RETAINING WALL 3A, APPROX 40M SOUTH OF MIDDLE GATE, EAST BOUNDARY	7:53	15:27	0/100	<0.01
AMR258	24-May	RETAINING WALL 3A, APPROX 20M SOUTH OF MIDDLE GATE, WEST BOUNDARY	7:54	15:26	0/100	<0.01
AMR258	24-May	RETAINING WALL 3A, AT MIDDLE GATE, EAST BOUNDARY	7:55	15:27	0/100	<0.01
AMR259	25-May	CAMELLIA JUNCTION, CARPARK AREA, BOUNDARY FENCE TO OVERPASS AREA	7:18	16:05	0/100	<0.01
AMR259	25-May	CAMELLIA JUNCTION, ADJACENT TO CRIB SHED	7:19	16:04	0/100	<0.01
AMR259	25-May	CAMELLIA JUNCTION, SE CORNER	7:20	16:03	0/100	<0.01
AMR259	25-May	NORTHERN AREA, EAST SIDE OF GATE	7:27	15:54	0/100	<0.01
AMR259	25-May	NORTHERN AREA, WEST SIDE OF GATE	7:28	15:53	0/100	<0.01
AMR259	25-May	NORTHERN AREA, JAMES HARDIE ABUTMENT, NORTH CORNER	7:29	15:52	0/100	<0.01
AMR259	25-May	NORTHERN AREA, EASTERN BOUNDARY, ADJACENT TO BALLAST STOCKPILE	7:30	15:51	0/100	<0.01
AMR259	25-May	NORTHERN AREA, APPROX 30M SOUTH OF SE CORNER OF PARRAMATTA RIVER BRIDGE	7:31	15:50	0/100	<0.01
AMR259	25-May	NORTHERN AREA, SOUTH WEST CORNER OF PARRAMATTA RIVER BRIDGE	7:32	15:49	0/100	<0.01