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## 1. Introduction

### 1.1. Background

Parramatta Light Rail is one of the NSW Government's major infrastructure projects being delivered to serve a growing Sydney.

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.

In summary, the 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.

An overview of Parramatta Light Rail Stage 1 route is shown in Figure 1-1.



Figure 1-1 Parramatta Light Rail Stage 1 Route

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



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.

#### 1.2.3 Stage 1 Delivery Strategy

Delivery of Stage 1 is achieved through the following five packages of work:

- **Enabling Works** (Package 1) Local road network improvements including O'Connell Street and George Street (off-alignment)
- **Westmead Precinct Works** (Package 2) Hawkesbury Road widening and demolition at Cumberland Hospital (east and west Campus)
- Early Works (Package 3) Remediation of the Stabling and Maintenance (SaM) Facility
- Infrastructure Works (Package 4) (the subject of this Report) Design and construction
  of civil works, public domain and light rail infrastructure up to road level/top of rail and to the
  top of the concrete slab at stops, including provision of utility services (excluding highvoltage power supply and cabling for rail systems), and decommissioning of the T6
  Carlingford Line)
- Supply, Operate and Maintain Works (Package 5) Design and construction of the light rail systems, high-voltage power supply and stops above slab level, the supply of light rail vehicles, and the design and construction of the SaM Facility, including all light rail operations, customer service and asset management.

Each package of work is to be delivered under separate contracts on behalf of the proponent Transport for NSW (TfNSW). While the packages will commence at different times under separate construction approvals, there will be periods during which the package works will overlap. The interactions between the packages are shown in **Figure 1-2**.

Parramatta Connect (the CPB Contractors and Downer EDI Works Joint Venture) has been engaged to deliver the Infrastructure Works. For construction, the Infrastructure Works are divided into portions and sub-portions, each of which is described in Table 1-1 together with significant environmental issues. The portions, light rail stops and precincts are depicted in **Figure 1-3.** 

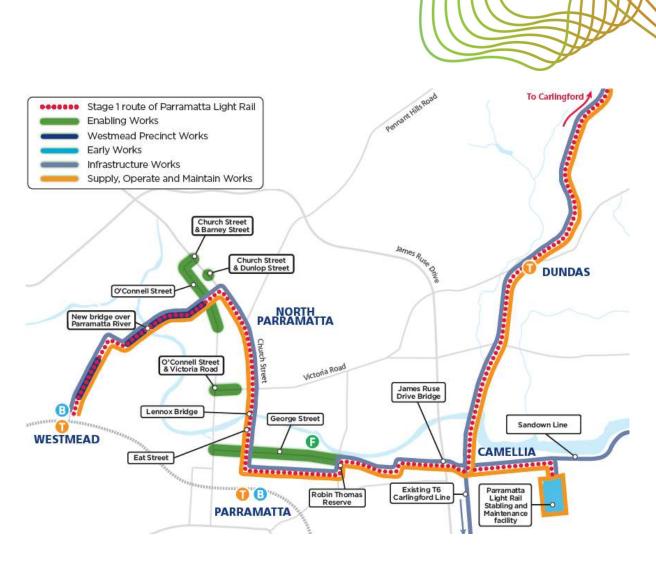


Figure 1-2 Parramatta Light Rail Stage 1 Delivery Strategy

ı	Portior	n 1A Portion 1B			Porti	ion 1C Portion 1D			Portion 2						
	Westm Precin			Parrai Precint		Par	ramatta	CBD Pr	ecinct		hill & ellia	Carl	ingford	d Preci	nct
Westmead Station	Westmead Hospital	Children's Hospital at Westmead	Cumberland Hospital	Factory Street	Fennell Street	Prince Alfred Square	Eat Street	Parramatta Square	Harris Street	Tramway Avenue	Camellia	Rydalmere	Dundas	Telopea	Carlingford

Figure 1-3 Infrastructure Works Portions, Precincts and Stations



### 1.2. Scope of this report

CPB Contactors Pty Limited have been issued an Environmental Protection Licence (EPL No. 21347) from the NSW Environment Protection Authority (EPA) for the Parramatta Light Rail Package 4 - Infrastructure Works on behalf of Parramatta Connect.

The EPL applies to the works approved under the Infrastructure Approval SSI-8285 associated with the delivery of Parramatta Light Rail Stage 1 Infrastructure Works (Package 4) under the operational control of Parramatta Connect. The EPL does not apply to other Parramatta Light Rail Stage 1 works packages.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21347 as required by Section 66 of the *Protection of the Environment Operations Act 1997 (POEO Act)* and with reference to EPA Publication Requirements for publishing pollution monitoring data (Environment Protection Authority, 2013).

Table 1-1 provides a summary of the EPL 21347 details.

Table 1-1 Licence details

Licence Details	
Number:	21347
Copy of License	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=17 7484&SYSUID=1&LICID=21347
Anniversary Date	03-January
Licensee	CPB Contractors Pty Limited
Premises	Parramatta Light Rail Stage 1 – Westmead to Carlingford, Package 4 Parramatta NSW 2123
Scheduled Activity	Railway activities - railway infrastructure construction



## 2. Reporting Requirements

Under the *POEO Act*, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The POEO Act Section 66 requires

"66 Conditions requiring monitoring, certification or provision of information, and related offences

- (1) Monitoring The conditions of a licence may require—
  - (a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to—
    - (i) the operation or maintenance of premises or plant, and
    - (ii) discharges from premises, and
  - (iii) relevant ambient conditions prevailing on or outside premises, and
    - (iv) anything required by the conditions of the licence, and
  - (b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and
  - (c) the analysis, reporting and retention of monitoring data.
- (2) **False or misleading information** A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect."

The primary objective of the pollution monitoring reporting requirements is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them. Data for the Parramatta Light Rail Infrastructure Works is presented on a monthly sampling period.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

An upfront note will be included on the licensee's website or in this report to explain why any data may appear to be missing because there is no discharge or the level of pollutant being below the detection level of the measurement instrument.

It's possible from time to time that incorrect data may get published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading (refer to **Section 4**).



Table 2-1 provides a summary of the pollution monitoring requirements of EPL 21347.

**EPL 21347 Pollution Monitoring Requirements** Table 2-1

EPL Condition	Requirement	Report Reference
M1.1	Monitor and record hourly temperature, humidity, wind velocity and rainfall	Section 3.1 Appendix A-1
L4.8	Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment	Section 3.2 Appendix A-2
M4.2	Noise monitoring of noise and vibration complaints	Section 3.2 Appendix A-2
M3.3	Noise and vibration monitoring as directed by an authorised officer of the EPA	Section 3.2 Appendix A-2
P1	Discharge of pollutants to water from nominated discharge points	Section 3.3 Appendix A-3
L2.4	Discharge from sediment basins solely as a result of rainfall measured as a result of rainfall exceeding the rainfall depth value	Section 3.3 Appendix A-3



## 3. Monitoring

Section 3 presents summaries of the monitoring programs completed in the reporting period from the 26 January to 25 February 2020.

Detailed monitoring results for each program are presented in the Appendices.

### 3.1. Meteorological Data

EPL Condition M1.1 requires Parramatta Connect to collect and store meteorological data. Meteorological data is not considered to be pollution data and therefore does not have to be published. However, the meteorological data is published with the pollution monitoring data to provide additional context to the water discharge pollution.

The meteorological observations are based data from Sydney Olympic Park AWS (Archery Centre) (station 066212) and Parramatta North (Masons Drive) (station 066124) from the 26 January to 25 February (31 days).

The total rainfall for the month of February was 434.6 mm with 12 rain day (days with >1mm of rain). 4 rain days exceeded the 80<sup>th</sup> percentile (25.8mm) and the 85<sup>th</sup> percentile (33.1mm) design rainfall events.

A summary of the month's meteorological observations summarised in **Table 3-2**. A comparison between long term monthly means and recorded values can be found in **Figure 3-1** for rainfall and **Figure 3-2** for rain days >1mm. Detailed weather observations are presented in **Appendix A-1**.

Table 3-1 Weather Summary and Trigger Weather Events for February 2020

Weather event	Forecast	Observation
Minimum temperature	-	14.4 °C
Maximum temperature	-	44.5 °C
Total rainfall	-	434.6 mm
Number of days with rain (>1mm)	-	12 days
>80 <sup>th</sup> percentile (25.8mm) rain events	-	4
>85 <sup>th</sup> percentile (33.1mm) rain events	-	4
Flood warning / events	07/02/2020 - Flood Watch for localised flooding of the Parramatta River	Localised flooding of the Parramatta River
>25km/hr wind <sup>2</sup>	10 days	29 days
>50km/hr wind	0 days	4 days

<sup>1.</sup> Weather summary based on data from the 26 January to 25 February (31 days).



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

Note: Red text in Observation column indicates observation greater than forecast.

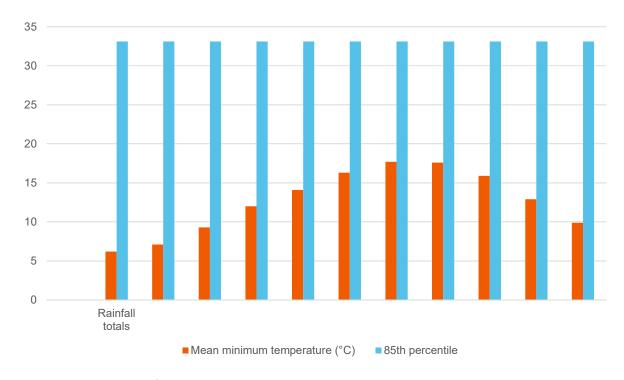


Figure 3-1 Monthly rainfall comparison

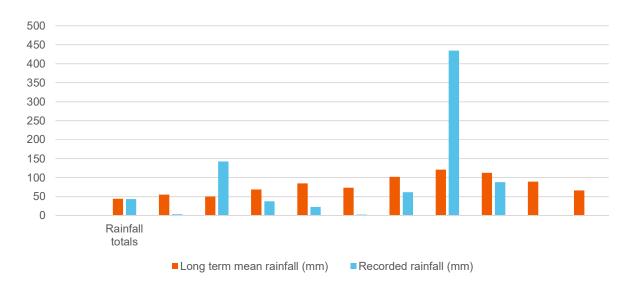


Figure 3-2 Monthly rain days comparison



### 3.2. Noise and Vibration

Noise monitoring is required by the follow conditions of EPL 21347:

- L4.8 Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment
- M4.2 Noise monitoring of noise and vibration complaints
- M3.3 Noise and vibration monitoring as directed by an authorised officer of the EPA

**Table 3-3** provides a summary of noise monitoring events completed in February 2020. Detailed noise monitoring results and comments are presented in **Appendix A-2**.

Table 3-2 Summary of noise monitoring February 2020

Date	Monitoring Location	Description
29/01/2020	101c James Ruse Drive, Camellia	OOHW Period 2: Tree removal and mulching for utility relocations in Camellia
30/01/2020	Between Alex + Co and Bay Vista	OOHW Period 2: Excavator and non-destructive digging for utility relocations in Parramatta CBD
30/01/2020	Novotel	OOHW Period 2: Excavator and non-destructive digging for utility relocations in Parramatta CBD
30/01/2020	Riverside Theatre	OOHW Period 2: Non-destructive digging, backfill and compacting for utility relocations in Parramatta CBD
31/01/2020	Meriton (330 Church)	OOHW Period 2: Excavator and non-destructive digging for utility relocations in Parramatta CBD
31/01/2020	Novotel	OOHW Period 2: Traffic Management Plan Implementation in Parramatta CBD
17/02/2020	Skye Hotel Suites - Corner Marsh and Macquarie	OOHW Period 2: Non-destructive digging for utility relocations in Parramatta CBD
18/02/2020	Centenary Square	OOHW Period 2: Rock hammering and non-destructive digging for utility relocations in Parramatta CBD

## 3.3. Discharge to water

The EPL discharge criteria apply to the sediment basins and settling containers referred to in condition P1.2 are the active basins and discharge points identified and located in the document titled "Parramatta Light Rail Package 4 Discharge Point Register" and maintained on electronic file EF19/29672. The active basins and discharge points during the reporting period are summarised in **Table A-3-1**.

**Table A-3-2** provides a summary of the discharges by Parramatta Connect at the current active monitoring/discharge point or utilisation area that complied with condition L2.1. There were no discharges from these points during the reporting period.

**Table A-3-3** provides a summary discharge events that occurred solely as a result of rainfall measured at the premises exceeding the design rainfall depth value for the corresponding discharge point. There were no discharge events as a result of rainfall exceeding the design rainfall depth value during the reporting period.



# 4. Correction log

It's possible from time to time that incorrect data may get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.



# **Appendices**

## **A-1 Weather Observations**

Table A-1-1 Weather Observations: Parramatta North (Masons Drive) {station 0066124}.

Temps 9:								
Date	Min	Max	Rain	Temp	RH	Cld	Dir	Spd
	°C	°C	mm	°C	%	8th	km	
26/01/2020	22.6	37.3	0	28	78	2	NW	2
27/01/2020	23	30.2	5.6	25.5	80	8	SW	2
28/01/2020	21.4	33.1	0	26	80	7	SSW	2
29/01/2020	22.2	28.7	0	23.9	73	7	SE	4
30/01/2020	16.8	31.5	0	23.3	79	5	NE	4
31/01/2020	20.2	36	0	25.2	85	5	W	2
1/02/2020	22	44.5	0	30.5	64			
2/02/2020	25	32	0	26	80	6	ENE	6
3/02/2020	22	33.8	16.0	23.2	98	8	SW	4
4/02/2020	16.5	22.9	1.2	19	54	6	SSW	6
5/02/2020	14.4	26	0	22	62	4	E	6
6/02/2020	19	23	1.6	21.4	85	8	Е	7
7/02/2020	17.5	21.5	48	19.4	99	8	ENE	6
8/02/2020	18	23.5	51	21.3	97	8	SE	2
9/02/2020	18.5	22.5	102	19.5	98	8	SE	52
10/02/2020	17.5	29.5	158	22.3	98	8	ENE	2
11/02/2020	18.5	30.7	0	23	84	3	W	4
12/02/2020	21.2	26.6	0	24.7	83	6	SW	6
13/02/2020	21	26.2	13.4	23.2	98	8	ENE	4
14/02/2020	19	27.6	10.2	22.2	95	6	SSW	6
15/02/2020	17	28	0	22.1	79	2	NE	2
16/02/2020	17.8	26.5	15.0	22.5	78	3	SW	4
17/02/2020	19.6	24.5	0.2	22.5	87	7	W	2
18/02/2020	18.5	33.5	0.8	23.2	86	2	NW	6
19/02/2020	18.4	28.5	11.4	24.3	47	0	W	13
20/02/2020	14.8	24.5	0	20.5	70	2	E	11
21/02/2020	18.9	24.5	0	22	73	7	E	4
22/02/2020	18	22.8	0	20	79	8	S	4
23/02/2020	18.2	24.5	0.2	21	86	8	N	2
24/02/2020	16.6	27.9	0	24	69	5	NE	6



25/02/20	20 18.0	30.8	0	24	75	0	NE	7
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Table A-1-2 Wind observations: Sydney Olympic Park AWS (Archery Centre) {station 066212}.

	Ma	Max Wind Gust			AM	3:00 PM		
Date	Dir	Spd	Time	Dir	Spd	Dir	Spd	
	km	/h	local	km	/h	km	ı/h	
26/01/2020	W	35	15:06	NE	4	ENE	15	
27/01/2020	S	37	23:47	SSE	9	Е	15	
28/01/2020	SSE	35	18:23	SSE	6	ESE	15	
29/01/2020	Е	31	16:11	SSE	11	ESE	17	
30/01/2020	Е	35	15:01		Calm	ENE	11	
31/01/2020	ESE	33	15:22	NNE	4	ESE	22	
1/02/2020	ENE	33	17:12		Calm	E	15	
2/02/2020	SE	46	15:08	ESE	11	ESE	28	
3/02/2020	SSE	54	18:09	SE	4	WNW	9	
4/02/2020	SSE	39	0:05	S	11	SE	17	
5/02/2020	Е	31	16:14	NW	6	NE	13	
6/02/2020	Е	30	16:36	ENE	2	ESE	13	
7/02/2020	SE	44	9:55	ESE	11	SE	15	
8/02/2020	Е	54	14:20	SSE	6	SE	13	
9/02/2020	ESE	81	14:29	ESE	35	ESE	33	
10/02/2020	Е	43	23:07	E	2	ESE	7	
11/02/2020	NE	30	14:43	WNW	11	ENE	11	
12/02/2020	Е	31	16:20	SSE	9	ESE	17	
13/02/2020	E	35	9:41	Е	2	E	11	
14/02/2020	SE	33	14:46	SSE	11	SE	17	
15/02/2020	ESE	30	16:41	NW	6	ESE	13	
16/02/2020	SE	28	12:02	SSE	9	SE	15	
17/02/2020	NNE	19	11:19	W	2	E	7	
18/02/2020	WNW	80	21:47	NW	7	SE	15	
19/02/2020	NW	39	10:15	NW	15	NW	19	
20/02/2020	SE	31	14:54	SE	6	SSE	17	
21/02/2020	ESE	30	15:45		Calm	E	11	
22/02/2020	S	28	1:55	WNW	2	ESE	9	
23/02/2020	E	24	11:55		Calm	ENE	9	
24/02/2020	E	30	14:16		Calm	ENE	11	
25/02/2020	E	33	14:48	NW	2	ESE	17	



#### Notes:

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

Orange text indicates a rain event greater than the  $80^{th}$  percentile of 25.8mm, and a wind speed of greater than 25 km/hr

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



## **A-2 Noise Monitoring Results**

Table A-2-1 Noise monitoring results

Date	Time	Out of Hours Works Period	Construction Activity	Attended or Continuous	Parameter		Specified Noise Limit	Recorded Value	Analysation method	Construction noise exceedance	Comments
29/01/2020	22:26:00	OOHW Period 2	Tree removal and mulching for utility relocations in Camellia	Attended	Leq, 15min (dBA)	72	72	62.1	Monitor	No	Construction noise audible: Chainsaw; EWP; Mulcher; Crane active
30/01/2020	0:36:00	OOHW Period 2	Excavator and non- destructive digging for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	82	82	43.5	Monitor	No	Construction noise audible: Bay Vista - 58-64dBA; Excavator changing bucket - 70-72dBA; Moving equipment - 68dBA;
30/01/2020	1:00:00	OOHW Period 2	Excavator and non- destructive digging for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	80	80	30.7	Monitor	No	Construction noise audible: Pedestrian walking over metal pit cover - 80dBA; Car door slam - 65dBA; Vac truck and excavator - 54dBA; Talking - 70dBA; Clipboard noise - 70dBA.
30/01/2020	1:24:00	OOHW Period 2	Non-destructive digging, backfill and compacting for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	80	80	62.1	Monitor	No	Construction noise audible:  Tipper approaching worksite; NDD truck passing behind worksite; second vac truck starting up - 80dBA; Excavator starts up - no change in noise output.
31/01/2020	0:21:00	OOHW Period 2	Excavator and non- destructive digging for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	82	82	65.1	Monitor	No	Construction noise inaudible; Cars passing; workers leaving Bay Vista; pedestrians talking; air conditioner noise; background noise/music from Crown Hotel
31/01/2020	22:39:00	OOHW Period 2	Traffic Management Plan Implementation in Parramatta CBD	Attended	Leq, 15min (dBA)	81	81	56	Monitor	No	Construction noise audible:  Pedestrians walking past; Car entering Novotel; Car leaving Novotel; Water truck idle; Sound of grinding coming from basement of apartments; Pedestrian talking on phone
17/02/2020	23:52:00	OOHW Period 2	Non-destructive digging for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	89	89	63.6	Monitor	No	Construction noise sometimes audible:  Main noise source - public road traffic.  Construction noise faintly heard when there is no traffic - 55-56dBA.  Vac truck heard when no traffic - 58-61dBA
18/02/2020	0:16:00	OOHW Period 2	Rock hammering and non- destructive digging for utility relocations in Parramatta CBD	Attended	Leq, 15min (dBA)	90	90	80.7	Monitor	No	Construction noise dominant noise source: One excavator rock hammering: 80-83dBA; Two excavators rock hammering - 86 dBA; Two excavators and 2 vacuum trucks - 86 -87 dBA.

Notes:

Standard hours: Monday to Friday 7:00 am to 6:00 pm. Saturday 8:00 am to 1:00 pm

Standard hours:

#### 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:

d) 10:00pm to 7:00am (nights) Monday to Saturday and

e) 6:00pm to 8:00am (nights) Sundays and public holidays.



# A-3 Discharge to water

Table A-3-1 Parramatta Light Rail Package 4 Discharge Point Register (electronic file EF19/29672) (Rev 1, submitted 24 February 2020)

ID	Construction Status	Easting	Northing	AMG Zone	Reference System	Description of location of discharge point	Catchment name	Name of nearest waters	Direct discharge to waters	Total catchment area of basin (hectares)	Basin size (operational) m3	Blue Book Criteria	Location description	Date added	Revision Added
A2.01	Active	315250	6256918	56	MGA	Existing stormwater pit on Church St, 40m north of the Phillip St intersection	Parramatta River I	Parramatta River	No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A2.02	Active	315231	6256879	56	MGA	Existing stormwater pit on the northwest corner of the intersection of Phillip St and Church St	Parramatta River I	Parramatta River	No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A3.18	Active	317220	6256123	56	MGA	Discharges into existing stormwater line at Sandown Lane flowing towards Parramatta River.	Parramatta River I	Parramatta River	Yes	N/A	N/A		Connection of new drainage to existing stormwater	24/02/2020	Rev 2
A3.19	Active	317845	6256065	56	MGA	Discharges into existing stormwater line at Sandown Lane flowing towards Parramatta River.	Parramatta River I	Parramatta River	Yes	N/A	N/A		Connection of new drainage to existing stormwater	24/02/2020	Rev 2
A3.3	Active	317527	6257074	56	MGA	On eastern side of rail corridor adjacent to WSU. Discharges into Vineyard Creek.	Parramatta River	Vineyard Creek	Yes	N/A	N/A	N/A	Outlet headwall for new drainage	24/02/2020	Rev 2
A3.4	Active	317518	6257093	56	MGA	On western side of rail corridor adjacent to WSU. Discharges into Vineyard Creek.	Parramatta River	Vineyard Creek	Yes	N/A	N/A	N/A	Outlet headwall for new drainage	24/02/2020	Rev 2

### Table A-3-2 Discharge water quality

Discharge	P1.2	Type of Monitoring				Oil and Grease	рН	Total Suspended Solids	
monitoring Point ID	Identification Number	Point	Point	Date	Discharge Permit #	(Not visible)	(6.5 - 8.5)	(31 milligrams per litre)	
A2.01	1	basins and settling containers	Discharge water quality	nil	nil	-	-		
A2.02	1	basins and settling containers	Discharge water quality	nil	nil	-	-		
A3.18	1	basins and settling containers	Discharge water quality	nil	nil	-	-		
A3.19	1	basins and settling containers	Discharge water quality	nil	nil	-	-		
A3.3	1	basins and settling containers	Discharge water quality	nil	nil	-	-		
A3.4	1	basins and settling containers	Discharge water quality	nil	nil	-	-		

Table A-3-3 Discharge occurs solely as a result of rainfall measured at the premises exceeding the design rainfall depth value

Discharge monitoring Point ID	P1.2 Identification Number	Type of Monitoring T Point P	ype of Discharge Point	Date	Rainfall Event	Comments
A2.01	1	basins and settling containers	Discharge water quality	nil	-	-
A2.02	1	basins and settling containers	Discharge water quality	nil	-	-
A3.18	1	basins and settling containers	Discharge water quality	nil	-	-
A3.19	1	basins and settling containers	Discharge water quality	nil	-	-
A3.3	1	basins and settling containers	Discharge water quality	nil	-	-
A3.4	1	basins and settling containers	Discharge water quality	nil	-	-

