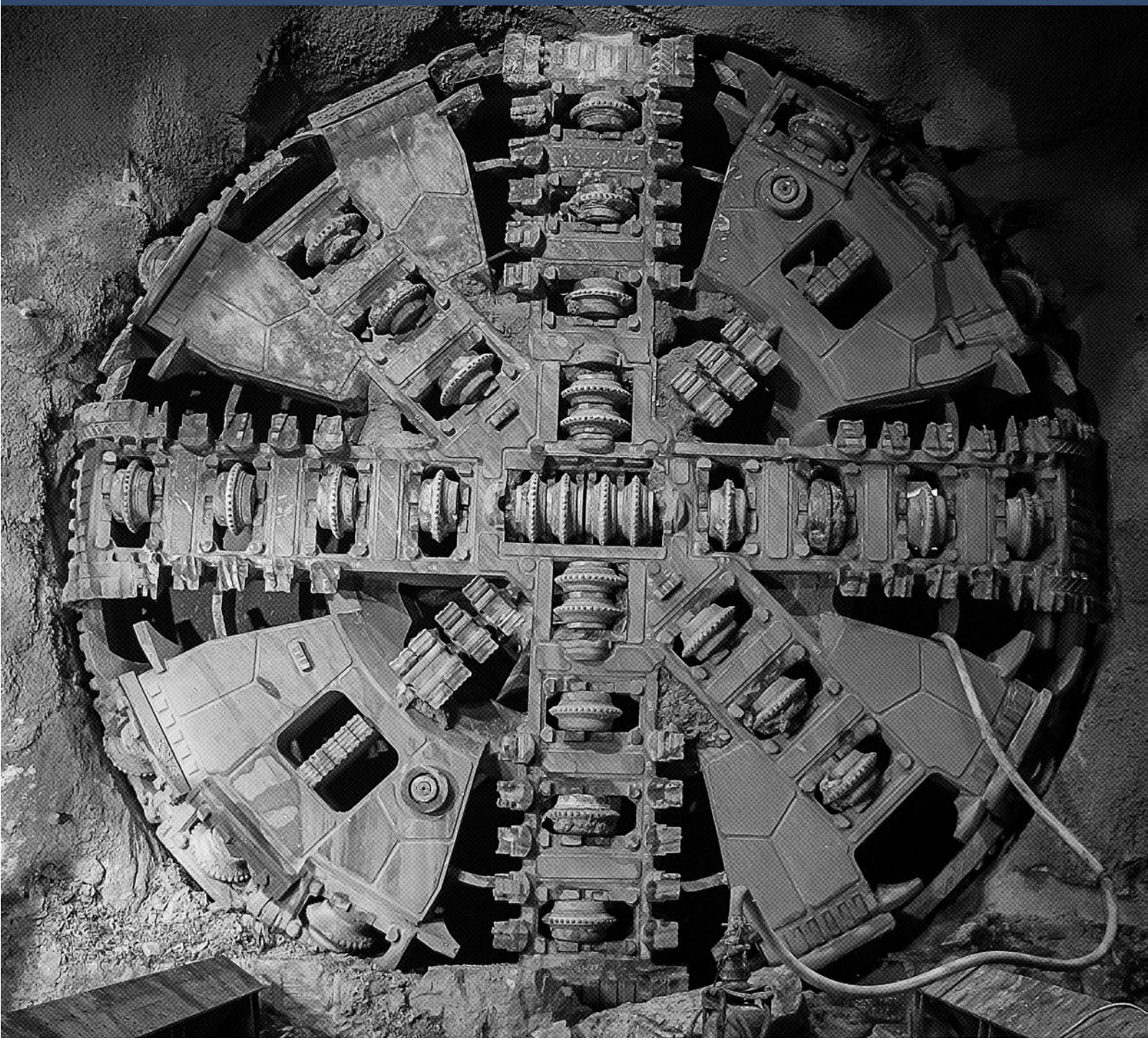


# EPL 21784 POLLUTION MONITORING REPORT

## December 2023



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December 2023

Project number	7040
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## Document approval

Rev	Date	Prepared by	Reviewed by	Comments	Approved by
1	15/12/2023				
Signature:					

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## 1. Introduction

### 1.1. Project overview

Sydney Metro West (SMW) is a new 24-kilometre metro line with nine new stations confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont, and Hunter Street in the Sydney CBD.

The planning process for Sydney Metro West was assessed as a staged infrastructure application under section 5.20 of the *Environment Planning and Assessment Act 1979 (EP&A Act)*.

Stage 1 of the development, the Sydney Metro West Concept and major civil construction work for Sydney Metro West between Westmead and The Bays (SSI-10038 Schedule 2), was approved on 11 March 2021 and includes:

- Construction and operation of new passenger rail infrastructure between Westmead and the central business district of Sydney, including:
  - Tunnels, stations (including surrounding areas) and associated rail facilities
  - Stabling and maintenance facilities (including associated underground and overground connections to tunnels)
- Modification of existing rail infrastructure, including stations and surrounding areas
- Ancillary development.

The Eastern Tunnelling Package (ETP or this Project) is addressed under the Stage 2 Planning Approval (SSI 19238057). This Project includes all major civil construction work including station excavation (at the Pyrmont Station and Hunter Street Station (Sydney CBD) construction sites) and tunnelling between The Bays and Sydney CBD (Figure 1).

It is noted that the existing Sydney Metro West precast facility at Eastern Creek will be utilised in the delivery of the ETP Works. The facility, which was assessed by Sydney Metro in a Review of Environmental Factors (REF) and approved on 11 March 2021, is outside of the scope of the SWMP.

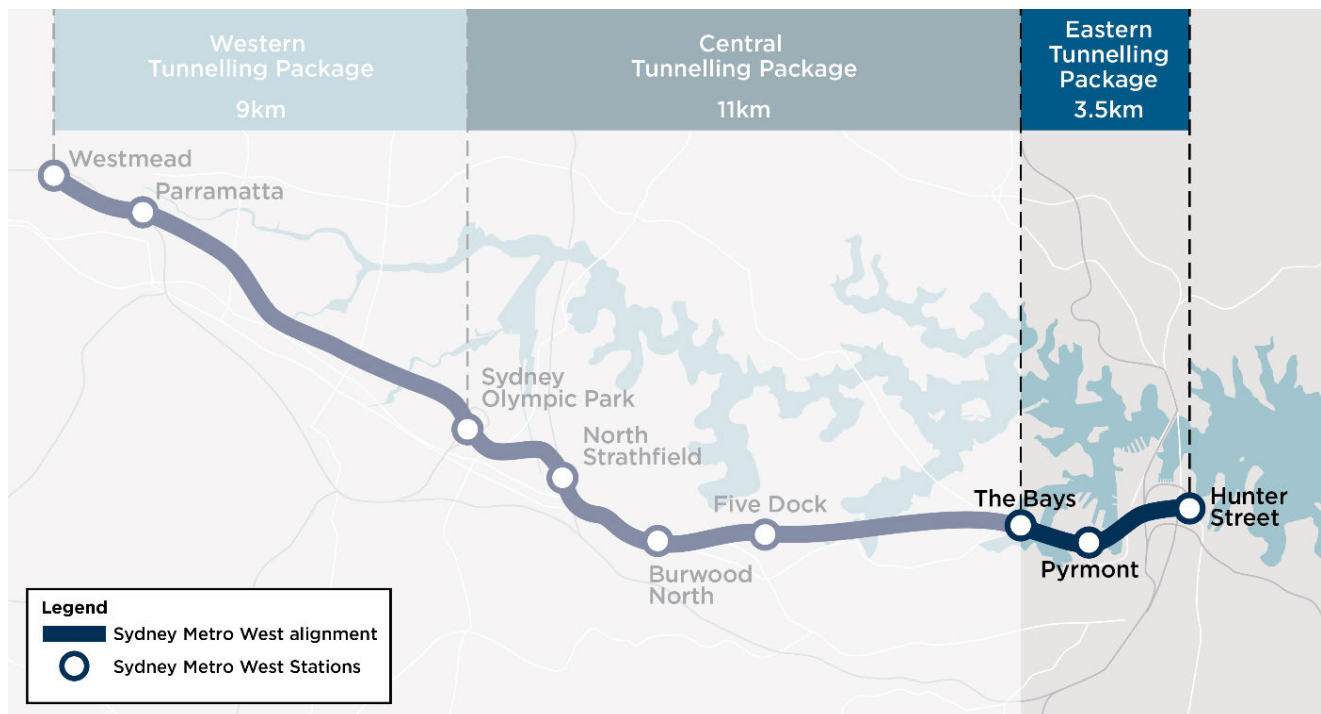


Figure 1: Sydney Metro West alignment

## 1.2. Project Scope

The ETP Works include design and construction of:

- Demolition of existing buildings at Pymont East and West shaft sites and at Hunter Street East and West shaft sites
- Tunnel Boring Machine (TBM) assembly, launch, tunnelling support from an existing shaft at The Bays
- Approximately 2.5 km twin underground eastbound and westbound bored railway tunnels between The Bays and Hunter Street and six cross passages spaced up to 500 metres apart
- Pymont Station excavation, including two shaft excavations, associated access adits and nozzle enlargements, including temporary ground support and cast in situ cavern linings
- Excavation and lining of a mined crossover cavern to allow trains to cross from one track to the other
- Hunter Street station mined cavern excavation, including:
  - Two shaft excavations, associated access adits
  - Nozzle enlargements
  - Conversion of an existing temporary connection adit at Bligh Street linking Hunter Street Station to Martin Place Station into a permanent pedestrian connection linking the stations (including temporary ground support and cast in situ linings)
- A turnback extension tunnel, of approximately 675 metres, east of the Hunter Street Station works to enable Sydney Metro train storage and to change tracks and travel direction (eastbound to westbound)
- TBM disassembly and retrieval from Hunter Street East.

## 1.3. Scope of this report

John Holland CPB Contractors Ghella (JCG) have been issued an Environmental Protection Licence (EPL No. 21784) from the NSW Environment Protection Authority (EPA) for the Sydney Metro West Eastern Tunnelling Package (ETP) Project.

The EPL applies to the works approved under the Infrastructure Approval SSI-19238057 associated with the delivery of the Sydney Metro West Eastern Tunnelling Package (ETP) Project.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21784 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 provides a summary of the EPL 21784 details.

Table 1: Licence Details

Licence Details	
Number	21784
Copy of Licence	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=266460&amp;SYSUID=1&amp;LICID=21784">https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=266460&amp;SYSUID=1&amp;LICID=21784</a>
Anniversary Date	16 March
Licensee	John Holland Pty Ltd
Premises	Sydney Metro West – Eastern Tunnelling Package
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 Sydney Metro West Eastern Tunnelling Package 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 is possible from time to time that incorrect data may be 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 1 provides a summary of the pollution monitoring requirements of EPL 21784.

Table 1 EPL 21784 Pollution Monitoring Requirements

EPL Condition	Requirement	Report Reference																								
Weather																										
M5.1	<p>The licensee must monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australia Bureau of Meteorology. Monitoring must:</p> <p>a) be representative of each catchment area;</p> <p>b) commence prior to any works that may cause sediment to leave the premises; and</p> <p>c) continue to be operated until soil disturbance activities cease at the premises and the site has been stabilised.</p>	Section 3.1 Appendix A3.1																								
Noise																										
L5.9	<p>In undertaking any works and activities outside of standard construction hours under condition L5.8, the licensee must comply with the following:</p> <p>a) Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC,2009) that is to include:</p> <p>i. a description of the proposed works and activities outside of standard constructions hours;</p> <p>ii. predictions of LAeq(15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and</p> <p>iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts.</p> <p>b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.9(a)(iii).</p>	Section 3.2 Appendix B																								
M4.4	<p>The licensee must undertake noise and vibration monitoring as directed by an authorised officer of the EPA. If a licensee is unable to obtain permission, they must provide the response to the EPA.</p>	N/A																								
Water																										
P1.1	<p>The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p> <table><tr><th>EPA Identification no.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr><tr><td>1</td><td>Discharge &amp; Monitoring</td><td>Discharge &amp; Monitoring</td><td>Discharge from the Hunter St Station WTP to Sydney Harbour</td></tr><tr><td>2</td><td>Discharge &amp; monitoring</td><td>Discharge &amp; monitoring</td><td>Discharge from the Eastern Creek Precast Facility sediment basin</td></tr><tr><td>3</td><td>Discharge &amp; monitoring</td><td>Discharge &amp; monitoring</td><td>Discharge from The Bays temporary WTP to White Bay</td></tr><tr><td>4</td><td>Discharge &amp; Monitoring</td><td>Discharge &amp; Monitoring</td><td>Discharge from the Pyrmont Station WTP to Sydney Harbour</td></tr><tr><td>5</td><td>Discharge &amp; Monitoring</td><td>Discharge &amp; Monitoring</td><td>Discharge from the Eastern Tunnelling Package Eastern Creek Precast Facility Water Treatment Plant into Ropes Creek</td></tr></table>	EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Hunter St Station WTP to Sydney Harbour	2	Discharge & monitoring	Discharge & monitoring	Discharge from the Eastern Creek Precast Facility sediment basin	3	Discharge & monitoring	Discharge & monitoring	Discharge from The Bays temporary WTP to White Bay	4	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Pyrmont Station WTP to Sydney Harbour	5	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Eastern Tunnelling Package Eastern Creek Precast Facility Water Treatment Plant into Ropes Creek	Section 3.3
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																							
1	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Hunter St Station WTP to Sydney Harbour																							
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3	Discharge & monitoring	Discharge & monitoring	Discharge from The Bays temporary WTP to White Bay																							
4	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Pyrmont Station WTP to Sydney Harbour																							
5	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Eastern Tunnelling Package Eastern Creek Precast Facility Water Treatment Plant into Ropes Creek																							
M2.1	<p>For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns.</p>	Section 3.3																								



M2.2

## POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	micrograms per litre	Monthly during discharge	Grab sample
Arsenic	micrograms per litre	Monthly during discharge	Grab sample
Manganese	micrograms per litre	Monthly during discharge	Grab sample
Nitrogen (total)	micrograms per litre	Monthly during discharge	Grab sample
Oil and Grease	Visible	Monthly during discharge	Visual Inspection
pH	pH	Daily during any discharge	Probe
Phosphorus (total)	micrograms per litre	Monthly during discharge	Grab sample
TSS	milligrams per litre	Monthly during discharge	Grab sample

## POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Special Frequency 1	Visual Inspection
pH	pH	Special Frequency 1	Probe
TSS	milligrams per litre	Special Frequency 1	Grab sample

## POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic (III)	micrograms per litre	Monthly during discharge	Grab sample
Manganese	micrograms per litre	Monthly during discharge	Grab sample
Nitrate + nitrite (oxidised nitrogen)	micrograms per litre	Monthly during discharge	Grab sample
Oil and Grease	Visible	Monthly during discharge	Visual Inspection
pH	pH	Daily during any discharge	Probe
Phosphorus (total)	micrograms per litre	Monthly during discharge	Grab sample
TSS	milligrams per litre	Monthly during discharge	Grab sample

## POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	micrograms per litre	Monthly during discharge	Grab sample
Ammonia	micrograms per litre	Monthly during discharge	Grab sample
Arsenic (III)	micrograms per litre	Monthly during discharge	Grab sample
Cadmium	micrograms per litre	Monthly during discharge	Grab sample
Chromium (hexavalent)	micrograms per litre	Monthly during discharge	Grab sample
Cobalt	micrograms per litre	Monthly during discharge	Grab sample
Copper	micrograms per litre	Monthly during discharge	Grab sample
Iron	micrograms per litre	Monthly during discharge	Grab sample
Manganese	micrograms per litre	Monthly during discharge	Grab sample
Nitrate	micrograms per litre	Monthly during discharge	Grab sample
Nitrogen (total)	micrograms per litre	Monthly during discharge	Grab sample
Oil and Grease	Visible	Monthly during discharge	Visual Inspection
pH	pH	Daily during any discharge	Probe
Phosphorus (total)	micrograms per litre	Monthly during discharge	Grab sample
TSS	milligrams per litre	Monthly during discharge	Grab sample
Zinc	micrograms per litre	Monthly during discharge	Grab sample

## POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Monthly during discharge	Visual Inspection
pH	pH	Daily during any discharge	Probe
TSS	milligrams per litre	Monthly during discharge	Grab sample

Section 3.3



### 3. Monitoring

Section 3 presents a summary of the monitoring programs completed in the reporting period from 17 November 2023 to 16 December 2023. Some meteorological data was unavailable on the Bureau of Meteorology at the time of report submission.

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

#### 3.1. Meteorological Data

Meteorological data for the Project has been mostly taken from the Observatory Hill but some has also been taken from Fort Denison and Sydney Airport, Bureau of Meteorology Weather Station.

The total rainfall recorded during the reporting period was 100.6 mm with 10 days exceeding one millimetre of rain and 4 days of rain exceeding 10mm.

During the reporting period, there were 26 days where the maximum wind gust recorded was greater than 25km/h, 9 days where the maximum wind gust recorded was greater than 50km/h and 4 days where the maximum wind gust recorded was greater than 60km/h. Winds recorded during the reporting period in the mornings had no prevailing direction and easterly into the afternoons, with some variability throughout the month.

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 2.

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

Table 2 Weather summary and trigger weather events for the reporting period

Weather Event	Observation
Minimum temperature	14.6 °C
Maximum temperature	40 °C
Total rainfall	100.6 mm
Number of days with rain (>1 mm)	10 days
Number of days with rain (>10 mm)	4 days
>25 km/hr wind	26 days
>50 km/hr wind	9 days
>60 km/hr wind	4 day

#### 3.2. Noise

Noise monitoring is a requirement of the following conditions of EPL 21784:

- L5.9 Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment
- M7.5(c) Noise or vibration monitoring following noise and vibration complaints
- M4.4 Noise and vibration monitoring as directed by an authorised officer of the EPA.

Table 3 Summary of noise and vibration monitoring completed during the reporting period

Date	Monitoring Location	Method	Description
06/12/23	2 Hunter St – A by Adina	Sound Level Meter	Removal of Signage on Hunter St
06/12/23	17 Hunter St Sydney	Sound Level Meter	Removal of Signage on Hunter St
01/12/23	170 Harris St Pyrmont	Sound Level Meter	Drilling to install inclinometer
01/12/23	230 Harris St Pyrmont	Sound Level Meter	Drilling to install inclinometer
22/11/23	2 Hunter St	Sound Level Meter	Structural Demo (daytime)

Date	Monitoring Location	Method	Description
22/11/23	30 Hunter St	Sound Level Meter	Structural Demo (daytime)

No noise and vibration monitoring was undertaken as a result of a direction by the EPA.

### 3.3. Discharge to water

Discharge water quality monitoring is a requirement of the following conditions of EPL 21784:

- M2.1 Monitoring the concentration of each pollutant specified using the specified sampling method, units of measure and frequency

During the reporting period sampling was undertaken from Point 1 – Discharge from the Hunter St Station WTP, Point 2 – Eastern Creek Precast Facility and Point 3 – Discharge from The Bays temporary WTP. The Pymont Station water treatment plant is yet to be commissioned. As such no water sampling or discharge has occurred in this recording period.

Table 4, 5 & 6 provide the details of the concentration of pollutants discharged during the reporting period. There were no exceedances of the discharge criteria specified in L2.4 for all discharge points.

Table 4 Concentration of pollutants discharged from Point 1 during the reporting period

Date			29/11/23
Type	Units	Criteria	Discharge
Ammonia	(µg/L)	910	21
Arsenic (III)	(µg/L)	8	3
Manganese	(µg/L)	80	9
Nitrogen (Total)	(µg/L)	1720	400
Oil and Grease	Visible	Not Visible	Not visible
pH	pH	7.0-8.5	7.5
Phosphorus (total) (µg/L)	(µg/L)	140	<50
TSS	(mg/L)	15	<5

Table 5 Concentration of pollutants discharged from Point 2 during the reporting period

Date			30/11/23
Type	Units	Criteria	Discharge
Oil and Grease	Visible	Not Visible	Not visible
pH	pH	6.5-8.5	8.46
TSS	(mg/L)	50	<5

Table 6 Concentration of pollutants discharged from Point 3 during the reporting period

Date			20/11/23
Type	Units	Criteria	Discharge
Arsenic (III)	(µg/L)	90	<1
Manganese	(µg/L)	1900	710
Nitrate + Nitrite (oxidised nitrogen)	(µg/L)	200	160

Date			20/11/23
Oil and Grease	Visible	Not Visible	Not Visible
pH	pH	6.5-8.5	7.5
Phosphorus (total) (µg/L)	(µg/L)	1000	<50
TSS (mg/L)	(mg/L)	50	15

#### 4. Correction Log

It is possible from time to time for incorrect data to 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.



## Appendix A Weather Data

Table 7 Weather Observations. Temperature and Relative Humidity. Observatory Hill BOM Station.

Date	Min temperature (°C)	Max temperature (°C)	Rainfall (mm)	9am Temperature (°C)	9am relative humidity (%)	3pm Temperature (°C)	3pm relative humidity (%)
17/11/2023	15.7	22.8	12.6	18.3	66	21.5	56
18/11/2023	14.6	24.4	0.6	20.6	69	23.4	56
19/11/2023	15.6	26.1	0	21.4	69	25.2	63
20/11/2023	19.4	24.8	0	21.6	85	23.8	79
21/11/2023	18.6	25.8	3.4	19.5	98	23.6	75
22/11/2023	18.8	26.6	0	23.4	75	25.7	63
23/11/2023	19.1	24.7	0.8	21.1	91	20.7	97
24/11/2023	18.7	23.6	14.8	20.1		22.5	89
25/11/2023	18.3	23.3	6	20.2	100	21.4	93
26/11/2023	18.5	32	1.8	22.6	89	26.4	65
27/11/2023	20.4	26.8	0.2	23.3	83	24.3	77
28/11/2023	20.2	21.3	0	21	88	20.6	93
29/11/2023	19.6	25.7	9.4	21.1	99	22.3	90
30/11/2023	16.8	27.3	33.8	20.3	92	27	54
1/12/2023	17.9	26.6	0.4	22.9	75	25.6	63
2/12/2023	19.8	27.2	0	21.4	83	24	81
3/12/2023	15.6	26.7	12.6	20.3	87	25.6	61
4/12/2023	18.7	26.2	0.6	19.4	87	25	60
5/12/2023	17.2	28.5	0.2	23.6	73	27.5	64
6/12/2023	21.4	26.8	0	23.7	76	25.7	64
7/12/2023	18.9	26.5	0	23.2	79	25.8	72
8/12/2023	20.3	29.5	0	25.5	77	27.5	76
9/12/2023	22.6	40	0	29	70	31.2	54
10/12/2023	20.3	27.6	1.2	21	100	26.8	76
11/12/2023	20.7	29.4	0	24.8	84	28.7	68
12/12/2023	21.5	29.3	0	25.9	79	28.8	64
13/12/2023	20.4	29.2	0	25.4	83	29.1	69
14/12/2023	21.9	38.9	2.2	27.1	77	38.7	23
15/12/2023	21.1	nd	0	25.1	69	nd	nd
16/12/2023	nd	nd	nd	nd	nd	nd	nd

Note: nd = not data available

Table 8 Wind Observations. Observatory Hill BOM Station.

Date	Direction of max wind gust	Speed of max wind gust (km/h)	Time of max wind gust	9am wind direction	9am wind speed (km/h)	3pm wind direction	3pm wind speed (km/h)
17/11/2023	SSE	54	15:23	S	26	S	30
18/11/2023	NE	44	15:13	N	15	NE	26
19/11/2023	NE	54	17:28	NE	15	NE	26
20/11/2023	NNE	44	18:12	NW	9	NE	13
21/11/2023	ENE	48	0:58	ESE	6	SSW	15
22/11/2023	SSE	50	12:51	SSW	19	SSE	31
23/11/2023	SSW	43	13:05	SSW	19	S	20
24/11/2023	NE	35	20:21	W	4	E	15
25/11/2023	NE	37	16:03	NNE	13	NE	19
26/11/2023	NE	37	15:46	ESE	2	ESE	24
27/11/2023	SSE	33	6:18	SSE	26	ESE	24
28/11/2023	E	50	19:22	E	20	E	33
29/11/2023	NE	56	12:19	NE	20	NE	26
30/11/2023	nd	nd	nd	ESE	6	N	20
1/12/2023	S	35	18:07	SW	7	ESE	20
2/12/2023	WNW	46	20:41	S	7	ESE	15
3/12/2023	E	52	16:24	WNW	9	SSE	26
4/12/2023	E	28	15:56	WNW	11	E	19
5/12/2023	E	31	16:48	NNE	13	E	15
6/12/2023	S	57	3:49	S	17	SE	19
7/12/2023	ENE	31	10:42	NNE	13	E	17
8/12/2023	nd	nd	nd	ESE	9	ENE	20
9/12/2023	S	72	22:58	E	11	SE	15
10/12/2023	S	65	23:06	SSW	20	S	15
11/12/2023	ESE	28	12:55	E	2	ESE	19
12/12/2023	E	33	15:42	ESE	11	E	22
13/12/2023	WSW	65	21:56	NE	13	ENE	28
14/12/2023	W	65	13:37	N	9	W	33
15/12/2023	nd	nd	nd	SE	11	nd	nd
16/12/2023	nd	nd	nd	nd	nd	nd	nd

Note: nd = no data available

## Appendix B Noise Monitoring Results

Table 9 Noise Monitoring Results

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Recorded Leq, 15min (dBA)	LAmx	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
Attended noise monitoring												
06/12/23	22:00	Night	Removal of signs along hunter St using EWP and power tools	Hunter Street West	2 Hunter St	60	66	66.2	87.3	0.2	Yes	Almost no construction noise audible. Majority of noise produced from non-construction sources
06/12/23	21:30	Night	Removal of signs along hunter St using EWP and power tools	Hunter Street West	17 Hunter St	60	78	72.3	91.3	-	No	Minimal noise from construction activities, significant noise produced from The Grand Hotel
01/12/23	00:26	Night	I&M inclinometer installation on corner of Pymont Bridge Rd and Harris St	Pymont West	170 Harris St	50	53	61.6	79.6	8.6	Yes	Drill rig measured at 48dB noise measured was largely due to traffic passing by.
01/12/23	00:01	Night	I&M inclinometer installation on corner of Pymont Bridge Rd and Harris St	Pymont West	230 Harris St	51	67	63.7	85.2	-	No	Drill rig measured at 57-63 dB, site team implemented proper controls. Majority of noise measured was due to traffic.
22/11/23	11:38	Day	Structural Demolition at Hunter St West	Hunter Street West	2 Hunter St	71	93	70.7	88.4	-	No	Hammering recorded at 75dB. Non-construction noise measured up to 84dB
22/11/23	12:02	Day	Structural Demolition at Hunter St West	Hunter Street West	30 Hunter St	71	88	67.9	84	-	No	Hammering recorded at 68 dB, cars trucks and bikes were recorded at 74-83 dB.
Real time noise and vibration monitoring												
	Continuous		Construction – Noise	Hunter Street	The Ivy (Level 5 External)	*	*	*	*	*	*	Real time noise and vibration monitoring data is available on request.
	Continuous		Construction – Noise	Hunter Street	The Ivy (Level 2 Office Printer Room)	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Hunter Street	The Ivy (Basement Carpark)	*	*	*	*	*	*	
	Continuous		Construction – Noise	Hunter Street	The Radisson Blu Plaza Hotel (Basement) 27 O’Connell Street, Sydney, 2000	*	*	*	*	*	*	



Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Recorded Leg. 15min (dBA)	LAmx	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
	Continuous		Construction – Noise	Hunter Street	The Radisson Blu Plaza Hotel (Level 1) 27 O'Connell Street, Sydney, 2000	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Hunter Street	The Radisson Blu Plaza Hotel (Basement) 27 O'Connell Street, Sydney, 2000	*	*	*	*	*	*	
	Continuous		Construction – Noise	Hunter Street	Tank Stream Hotel (Level 1 Office) 97-99 Pitt Street, Sydney, 2000	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Hunter Street	Tank Stream Hotel (Basement) 97-99 Pitt Street, Sydney, 2000	*	*	*	*	*	*	
	Continuous		Construction – Noise	Pymont East	63 Edwards Street, Pymont, 2009	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Pymont East	63 Edwards Street, Pymont, 2009	*	*	*	*	*	*	
	Continuous		Construction – Noise	Pymont West	28 Paternoster Row, Pymont, 2009	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Pymont West	28 Paternoster Row, Pymont, 2009	*	*	*	*	*	*	
	Continuous		Construction – Vibration	Pymont	13A Union Street, Pymont, 2009	*	*	*	*	*	*	

\* Data is available upon request