



# Environmental Monitoring Summary Report

## *Port Kembla Gas Terminal*

Infrastructure Approval      **SSI-9471**  
EPL Licence Number:      **21529**

Reporting period:              **1 May 2023 – 31 May 2023**

Date published:                **27 June 2023**



## 1 Project background

AIE is responsible for the development of a liquefied natural gas (LNG) import terminal at Port Kembla, south of Wollongong, NSW (the Project). The Project will be the first of its kind in NSW and will provide a simple and flexible solution to the state’s gas supply challenges.

The Project has been declared Critical State Significant Infrastructure (CSSI) in accordance with Section 5.13 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) (NSW) and Schedule 5 of the *State Environmental Planning Policy State and Regional Development* (SRD SEPP). The Project received Infrastructure Approval from the Minister for Planning and Public Spaces on 29 of April 2019.

The construction of the Project is primarily associated with the establishment of a new berth facility at Port Kembla to enable a Liquefied Natural Gas (LNG) Carrier to berth alongside the Floating Storage and Re-gasification Unit (FSRU) and new infrastructure to connect the terminal to the existing gas network. The location of the Project is shown on the Environmental Monitoring Location Plan provided as Appendix A.

An Environment Protection Licence (EPL) (EPL No. 21529) was issued for the Project by the NSW Environment Protection Authority (EPA) on 2 June 2021. The details of the EPL are provided below in Table 1-1.

Table 1-1 EPL Details

EPL No.	21529
Anniversary Date:	2 June
Licensee:	Australian Industrial Energy Pty Ltd
	PO Box 3155 Broadway
	Nedlands WA 6009
Premises:	Port Kembla Gas Terminal, Port Kembla NSW 2505
Scheduled Activity	Contaminated soil treatment
	Crushing, grinding or separating
	Petroleum products storage

## 2 Report purpose

This Monthly Environmental Monitoring Report has been prepared to provide an overview of project activities undertaken during the reporting period and those forecast for the next reporting period (refer to Section 3), and to satisfy the requirements associated with the reporting and publishing of monitoring data and results required under the relevant conditions of approval and environmental management plans as detailed further in Table 2-1.

Table 2-1 Environmental monitoring reporting requirements

Document	Clause or section	Requirement	Addressed:
DPIE SSI-9471	Sch. 4 Cond. 8	Regular Reporting – The Proponent must provide regular reporting on the environmental performance of the development on its website in accordance with the reporting requirements in any strategies, plans or programs approved under the conditions of this approval.	This report which will be made available on the Project Website.
	Sch. 4 Cond. 12	Access to information – From the commencement of development under this approval, the Proponent shall: (a) Make copies of the following information publicly available on its website:	
		- a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs	Section 4
		- a summary of complaints, which is to be updated monthly	Section 5
AIE Air Quality Management Plan (Stage 2A and 2B)	Section 11.4	A monthly environmental monitoring report will be developed for each calendar month which will include details of the monitoring results and frequencies and inclusion of any exceedance of EPL No. 21529 air monitoring limits / criteria. A copy of the monthly environmental monitoring report will be made available on the AIE Project website.	Air quality monitoring results and frequencies and inclusion of any exceedance provided in Section 4.1
AIE Water Quality Monitoring Plan (Stage 2A and 2B)	Section 9.4	A monthly environmental monitoring report will be developed for each calendar month which will include details of the monitoring results and frequencies and inclusion of any exceedance of EPL (No. 21529) water quality monitoring limits / criteria. A copy of the monthly environmental monitoring report will be made available on the AIE Project website.	Water quality monitoring results and frequencies and inclusion of any exceedance provided in Section 4.2
EPL 21529	Condition M6.2	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 Australian Bureau of Meteorology. Whilst there are no specific requirements to provide weather data in the monthly report, AIE has included the data for transparency and to assist with context for any monitoring results where required.	Section 4.3

## 3 Project activities

### 3.1 Project status

The project has progressed to Stage 2A, Stage 2B and Stage 3 as follows:

Stage 2A: Marine Berth Construction – Land Based. Associated works include:

- Quay wall construction.
- Installation of communications conduit, potable water line, and 11kV power cable and Pad-mount Substation within the Marine Berth Construction and Dredging (MBD) Site Compound.
- Construction of the Onshore Receiving Facilities (ORF), which comprises three areas: Wharf Topside Area; Utility Area; and Common Area.
- Pipeline construction and associated ancillary infrastructure within MBD Site Compound delivered as part of ORF scope.

Stage 2B: Marine Berth Construction – Marine Based. Associated works include:

- Continuation of Stage 2A works
- Excavation and dredging of the MBD Site Compound in the Inner Harbour and the Emplacement Cell in the Outer Harbour.
- Construction of the Emplacement Cell in the Outer Harbour.
- Marine based construction activities including installation of navigational aids and revetments at the MBD Site Compound.

Stage 3: Gas pipeline Construction. Associated works applicable to EPL No. 21529 include:

- Construction of gas pipeline section within Berth 101

### 3.2 Project activities for the reporting month

- Construction of trench drain at Berth 101.
- Ongoing importation, stockpiling and management of rock-fill material at the Outer Harbour for later use during construction of the emplacement cell bund.
- Commencement of jet grouting and coring of the capping beam at Berth 101 as part of the quay wall rectification works.
- Construction of the Darcy Road drain diversion.
- Commencement of emplacement cell bund construction at the Outer Harbour.

### 3.3 Project activities for the upcoming month

- Ongoing construction of Berth 101 trench drain.
- Commencement of the 11kV / utility installations along Seawall Road, Port Kembla.
- Ongoing importation, stockpiling and management of rock-fill material at the Outer Harbour.
- Ongoing jet grouting works and coring of the capping beam at Berth 101 as part of the quay wall rectification works.
- Ongoing construction of the emplacement cell bund at the Outer Harbour.

## 4 Environmental monitoring data

The following sections present a summary of the air quality, water quality and weather monitoring data for the reporting month.

A copy of this report will be made available on the Project website at the following web-address:

<https://www.squadronenergy.com/our-projects/port-kembla-energy-terminal>

### 4.1 Air quality

#### 4.1.1 Air Quality Monitoring Locations and Frequency

Air quality monitoring equipment is installed to the north and south of the MBD site compound (Berth 101), and to the east, to the west, and within the central portion of the Outer Harbour stockpile area.

A summary of the air quality monitoring locations is provided below in Table 4-1 and a monitoring location plan is provided in **Appendix A**.

Table 4-1 Air quality monitoring locations

EPL Ref.	Monitoring location	Monitoring type	Monitoring parameter	Monitoring frequency
8	Northern boundary of the premises, adjacent the southern boundary of Port Kembla Coal Terminal	Dust Deposition Gauge	Particulates - Deposited Matter (gm/m <sup>2</sup> /month)	Monthly
10	Southern boundary of Berth 101			
12	Southern side of emplacement area, Outer Harbour			
14	Eastern side of emplacement area, Outer Harbour	Ambient Air Monitoring - High Volume Air Sampler	Total suspended particles (TSP) (ug/m <sup>3</sup> )	Special Frequency 1 (24-hour period every 6 days)
22	Northern side of emplacement area, Outer Harbour			
9	Northern boundary of the premises, adjacent the southern boundary of Port Kembla Coal Terminal	Real time dust monitoring	PM10 (ug/m <sup>3</sup> )	Continuous
11	Southern boundary of Berth 101			
13	Southern side of emplacement area, Outer Harbour			
15	Eastern side of emplacement area, Outer Harbour			
23	Northern side of emplacement area, Outer Harbour			

#### 4.1.2 Air Quality Monitoring Results

The air quality monitoring results for the reporting month are presented below in Table 4-2.

Table 4-2 Air quality monitoring results

Monitoring Location (EPL Reference)		Monitoring parameter							
		Particulates Deposited Matter  (Depositional dust gauge)**	Total Suspended Particulate (High Volume Air Sampler)			PM10 (Real-time Dust Track or equiv.)			Events above criteria*
			Average	Min.	Max.	Average	Min.	Max.	
Unit	g/m <sup>2</sup> /month	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup> /24 hr average	µg/m <sup>3</sup> /24 hr average	µg/m <sup>3</sup> /24 hr average	No.	
Criteria	NA	NA	NA	NA	NA	NA	200	NA	
Berth 101 North	EPL 8	1.30	0.13	0.06	0.20	No PM10 monitoring required at this EPL Point			NA
	EPL 9	No Dust Deposition Gauge or HiVol required at this EPL Point				47.88	23.00	74.25	0
Berth 101 South	EPL 10	2.30	0.17	0.10	0.20	No PM10 monitoring required at this EPL Point			NA
	EPL 11	No Dust Deposition Gauge or HiVol required at this EPL Point				67.05	30.42	138.54	0
Outer Harbour South	EPL 12	1.20	0.04	0.02	0.08	No PM10 monitoring required at this EPL Point			NA
	EPL 13	No Dust Deposition Gauge or HiVol required at this EPL Point				18.94	5.10	50.38	0
Outer Harbour East	EPL 14	0.60	0.04	0.02	0.06	No PM10 monitoring required at this EPL Point			NA
	EPL 15	No Dust Deposition Gauge or HiVol required at this EPL Point				15.52	4.08	74.24	0
Outer Harbour North	EPL 22	0.60	0.04	0.01	0.08	No PM10 monitoring required at this EPL Point			NA
	EPL 23	No Dust Deposition Gauge or HiVol required at this EPL Point				20.35	4.83	58.69	0

\*Includes individual number of times results recorded above Stage 2A and Stage 2B performance criteria (200 µg/m<sup>3</sup>/24 hour average). Refer to **Appendix B** for event above criteria reports.

\*\*Assessed as Total Insoluble.

## 4.2 Water quality

### 4.2.1 Water Quality Monitoring Locations and Frequency

Water quality monitoring is undertaken at five (5) locations within the Port Kembla Harbour. Each water quality monitoring location is securely anchored/moored in its location. Details of each of the water quality monitoring locations and corresponding EPL monitoring point reference is provided below in Table 4-3.

Table 4-3 Port Kembla Harbour water quality monitoring locations

EPL Ref.	Monitoring location	Type of monitoring	Parameters	
			Continuous monitoring at 15 min intervals	Weekly grab sample
1	WQM1 - North of Berth 101	Primary- impact works area receiver	<ul style="list-style-type: none"> <li>- Turbidity</li> <li>- Temperature</li> <li>- pH</li> <li>- Salinity (EC)</li> <li>- Dissolved oxygen</li> </ul>	<ul style="list-style-type: none"> <li>- Aluminium</li> <li>- Arsenic</li> <li>- Cadmium</li> <li>- Chromium (total)</li> <li>- Cobalt</li> <li>- Copper</li> <li>- Lead</li> <li>- Mercury</li> <li>- Nickel</li> <li>- Total PAHs</li> <li>- TSS</li> <li>- Tributyltin</li> <li>- Zinc</li> </ul>
16	WQM2 - North of the emplacement cell, Outer Harbour.	Primary- impact works area receiver		
17	WQM3 - South West of Berth 101	Primary- impact works area receiver		
18	WQM4 - Near the Pacific Ocean entrance to Outer Harbour	Background water quality		
19	WQM5 - Near entrance to Allans Creek, near BlueScope Steel	Background water quality		

It is noted that the EPL 21529 also includes a mobile water quality monitoring point (EPL 24) for the undertaking of ambient water quality monitoring for turbidity within 5m of the outermost silt curtain near Berth 101 during dredging operations. As dredging works at Berth 101 did not occur during this reporting period, water quality monitoring was suspended at EPL 24.

In addition to the monitoring requirements listed above for the harbour, monitoring is also required for any discharge event from the on-site sedimentation basin located at the southern end of Berth 101. Details of the monitoring requirements associated with the sediment basin discharge point are included below in Table 4-4.

Table 4-4 Sediment basin discharge monitoring

EPL Ref.	Monitoring location	Type of monitoring	Parameters	
			Prior to discharge	Daily grab sample during discharge
20	Sediment basin discharge point at the southern end of Berth 101	Wet weather discharge quality	<ul style="list-style-type: none"> <li>- Oil and grease (visual)</li> <li>- Total suspended solids (TSS)</li> </ul>	<ul style="list-style-type: none"> <li>- Aluminium</li> <li>- Arsenic</li> <li>- Cadmium</li> <li>- Chromium</li> <li>- Cobalt</li> <li>- Copper</li> <li>- Lead</li> <li>- Mercury</li> <li>- Nickel</li> <li>- Oil and grease (visual)</li> <li>- pH</li> <li>- Total PAHs</li> <li>- Tributyltin</li> <li>- TSS</li> <li>- Zinc</li> </ul>

#### 4.2.2 Water Quality Monitoring Results

A summary of the results for the continuous water quality monitoring in Port Kembla Harbour is presented below in Table 4-5. Further details for exceedances as indicated below (if applicable) are provided in **Appendix B**.

Table 4-5 Port Kembla Harbour water quality – Continuous monitoring results

	Statistic	Results - based on individual 15-minute median				
		Turbidity (NTU)	Temperature (Deg. C)	pH	Electrical conductivity (uS/cm2)	Dissolved Oxygen (%sat)
Criteria		35 + BG <sup>1</sup>	N/A	6.5 – 8.5	N/A	70 – 110
WQM1 EPL 1	Average	2.4	20.1	8.3	52833.9	92.2
	Minimum	1.1	17.9	8.2	47421.0	85.2
	Maximum	88.4	22.7	8.3	53616.3	100.6
	Events above criteria <sup>2</sup>	1	-	0	-	0
WQM2 EPL 16	Average	2.1	19.8	8.2	53247.3	96.0
	Minimum	1.3	16.5	8.0	51526.6	90.0
	Maximum	56.0	21.6	8.2	53593.7	104.9
	Events above criteria <sup>2</sup>	1	-	0	-	0
WQM3 EPL 17	Average	2.1	20.1	8.2	53168.3	96.0
	Minimum	1.1	14.6	8.0	49898.4	89.6
	Maximum	11.8	22.5	8.3	53681.5	108.3
	Events above criteria <sup>2</sup>	0	-	0	-	0
WQM4 EPL 18 (Background)	Average	2.0	19.9	8.2	53190.8	94.8
	Minimum	1.2	18.1	8.2	49056.8	89.2
	Maximum	15.0	21.8	8.3	53656.5	101.1
WQM5 EPL 19 (Background)	Average	4.4	23.2	8.1	49951.2	98.1
	Minimum	1.4	18.5	8.0	16033.1	90.6
	Maximum	58.2	26.7	8.2	54200.5	104.9
Mobile WQM / EPL 24 (Ambient) <sup>3</sup>	Average	NA	Not required at this EPL point			
	Minimum	NA				
	Maximum	NA				

<sup>1</sup>Total suspended solids (TSS) is monitored in real time using turbidity in NTU and the NTU-TSS statistical correlation from an in-field study using *The Water Quality Monitoring Manual for Construction Sites*, as issued by the Alberta Ministry of Transportation. The NTU-TSS Correlation Study was issued to the EPA in email correspondence dated 01/03/2023. BG = Background, recorded at WQM4 and/or WQM5. For this reporting period an NTU-TSS correlation of 35 NTU being equivalent to 50 mg/L TSS has been adopted.

<sup>2</sup>Calculated as number of days where results exceeded performance criteria. Refer to Appendix B for exceedance reports.

<sup>3</sup>Complete results for this point are included as **Appendix C**.





4.2.3 Water Quality Monitoring Results – Port Kembla Harbour Grab Samples

A summary of the results for the Port Kembla Harbour weekly grab samples is presented below in Table 4-6. Further details for exceedances as indicated below (if applicable) are provided in **Appendix B**.

Table 4-6 Port Kembla Harbour water quality – Weekly grab sample results summary

Monitoring Location	Statistic <sup>2</sup>	Aluminium	Ammonia	Arsenic	Cadmium	Chromium (total)	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Reactive Phosphorus	Total PAHs	TSS	Tributyltin	Zinc
Unit		ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Ug/L	ug/L	mg/L	ug/L	mg/L	ngSn/L	ug/L
Criteria		200	-	50	5.5	4.4	1	8	-	12	0.4	70	-	50	50	6	21
WQM1 EPL 1	Average	28.00	0.36	1.68	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.67	<0.01	<0.05	<5	<2	<5
	Minimum	28.00	0.36	1.50	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.50	<0.01	<0.05	<5	<2	<5
	Maximum	28.00	0.36	2.00	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.90	<0.01	<0.05	<5	<2	<5
	Events above criteria <sup>1</sup>	0	-	0	0	0	0	0	0	-	0	0	-	0	0	0	0
WQM2 EPL 16	Average	47.00	0.30	1.73	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
	Minimum	47.00	0.30	1.50	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
	Maximum	47.00	0.30	2.00	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
	Events above criteria <sup>1</sup>	0	-	0	0	0	0	0	0	-	0	0	-	0	0	0	0
WQM3 EPL 17	Average	48.00	0.32	1.65	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.80	<0.01	<0.05	<5	<2	<5
	Minimum	48.00	0.32	1.50	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.80	<0.01	<0.05	<5	<2	<5
	Maximum	48.00	0.32	1.80	<1	<0.5	<1	1.00	<5	<0.2	<0.1	0.80	<0.01	<0.05	<5	<2	<5
	Events above criteria <sup>1</sup>	0	-	0	0	0	0	0	0	-	0	0	-	0	0	0	0
WQM4 EPL 18	Average	19.00	0.31	1.65	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	8.00	<2	<5
	Minimum	19.00	0.31	1.50	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	8.00	<2	<5
	Maximum	19.00	0.31	1.90	<1	<0.5	<1	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	8.00	<2	<5
WQM5 EPL 19	Average	22.00	0.38	1.73	<1	<0.5	<1	1.50	<5	<0.2	<0.1	1.70	<0.01	<0.05	6.00	<2	6.00
	Minimum	22.00	0.38	1.50	<1	<0.5	<1	1.00	<5	<0.2	<0.1	1.30	<0.01	<0.05	6.00	<2	6.00
	Maximum	22.00	0.38	2.00	<1	<0.5	<1	2.00	<5	<0.2	<0.1	2.10	<0.01	<0.05	6.00	<2	6.00

<sup>1</sup>Includes individual number of times results exceeded criteria. Refer to **Appendix B** for exceedance reports.

<sup>2</sup>Only results above the laboratory Limit of Reporting (LOR) have been used to calculate these data functions. Where an analyte has not been detected above the LOR throughout the monitoring period, the LOR has been listed.



4.2.4 Water Quality Monitoring Results – Sediment basin discharge

During the reporting month, there was one (1) authorised discharge event, and zero (0) discharge events as a result of excessive rainfall exceeding the design criteria of the basin (>43.5 mm in any 5-day period). Refer to Section 4.3 for site weather monitoring details. The date of the events and a summary of the water quality results for the authorised discharge events from the sediment basin is included below in Table 4-7.

Table 4-7 Sediment basin discharge water quality – Pre-discharge and daily grab sample results

Date of discharge/ sampling	Aluminium	Arsenic	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Zinc	Tributyltin	TSS	pH	Oil & Grease	Total PAH	Overflow Discharge?	Rainfall (mm) Roll. 5-Day Total
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	-	-	µg/L	-	mm
Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	Visible	NA	NA	NA
03/05/2023	141.00	1.40	<0.05	0.60	<0.1	1.40	<0.1	<0.1	<0.5	4.00	<2	11.00	7.33	<5	<0.05	N	21.8



### 4.3 Weather station results

Under the EPL (Condition M6.2), AIE is required to monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either a project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology.

AIE established and maintains a weather station for the project site located at the southern point of Berth 101 (EPL monitoring point 21) as shown in **Appendix A**. The data obtained from the onsite weather station for the reporting period is provided below in Table 4-8.

*Table 4-8 Site weather station monitoring results summary*

Parameter	Unit of measure	Monthly statistic	Result EPL 21
Wind velocity	m/s (15min average)	Average	4.35
		Minimum	0.37
		Maximum	12.13
Wind direction at 10m	Degrees (1 hour averaging period)	See Wind Rose chart (Figure 4-1)	
Rainfall (Hour)	mm/hr (1 hour averaging period)	Average	0.00
		Minimum	0.00
		Maximum	0.67
Rainfall (Daily)	mm/day	Average	1.01
		Minimum	0.00
		Maximum	15.20
Rainfall (Month)	mm/month	Total	31.2
Temperature	Degrees Celsius	Average	16.08
		Minimum	8.00
		Maximum	22.70
Humidity	%	Average	61.43
		Minimum	30.30
		Maximum	97.70

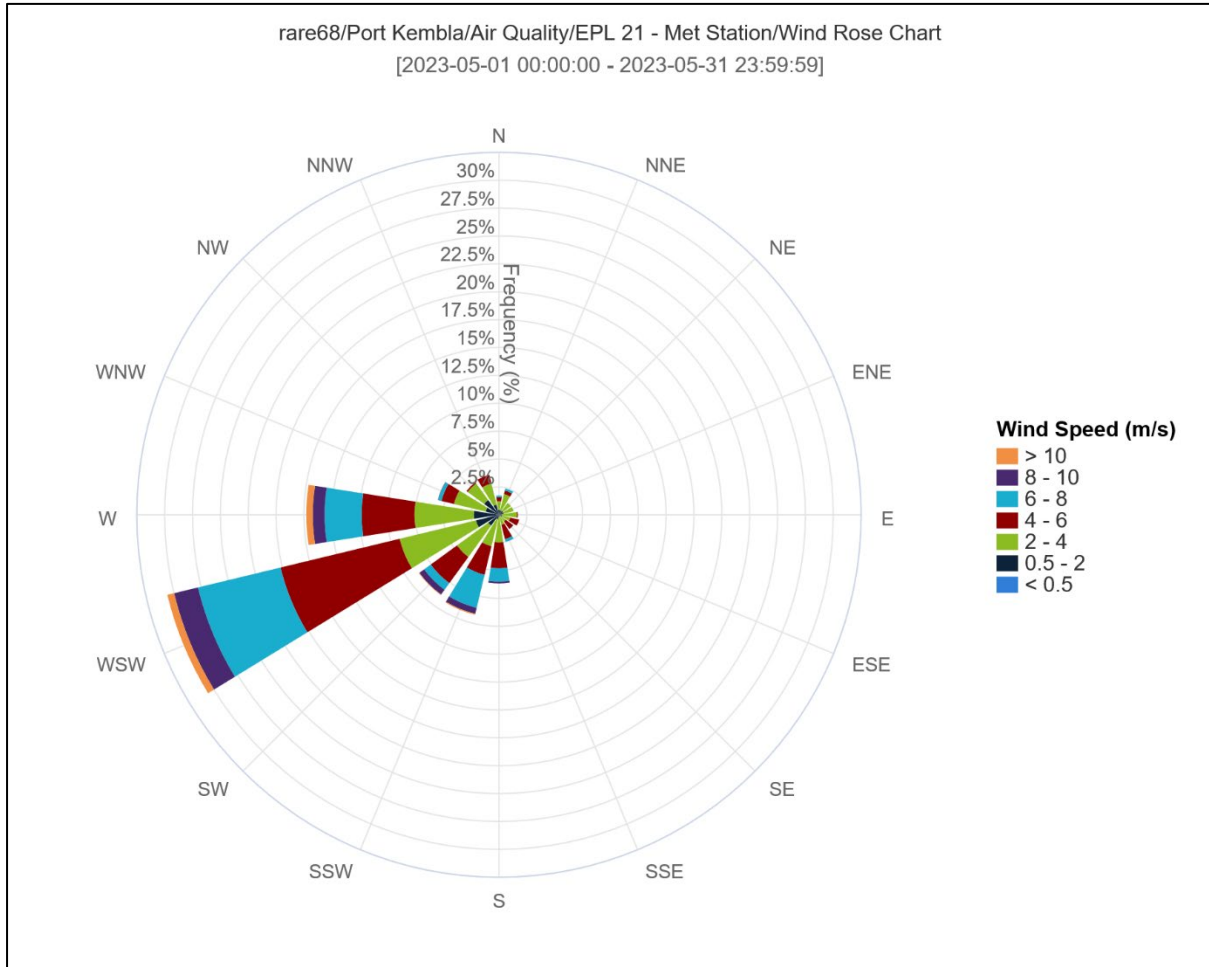


Figure 4-1 Wind Rose chart for the reporting period.



## 5 Environmental complaints

A summary of environmental complaints received during the reporting month and follow-up, close-out and or corrective actions are presented below in Table 5-1 where applicable.

*Table 5-1 Environmental complaints summary*

Date	Complaint No.	Nature of the complaint	Follow-up close-out and or corrective action
-	-	-	No complaints for the reporting period.



# Appendices

# Appendix A - Monitoring Location Plan



# Appendix B – Summary of Events Above Criteria

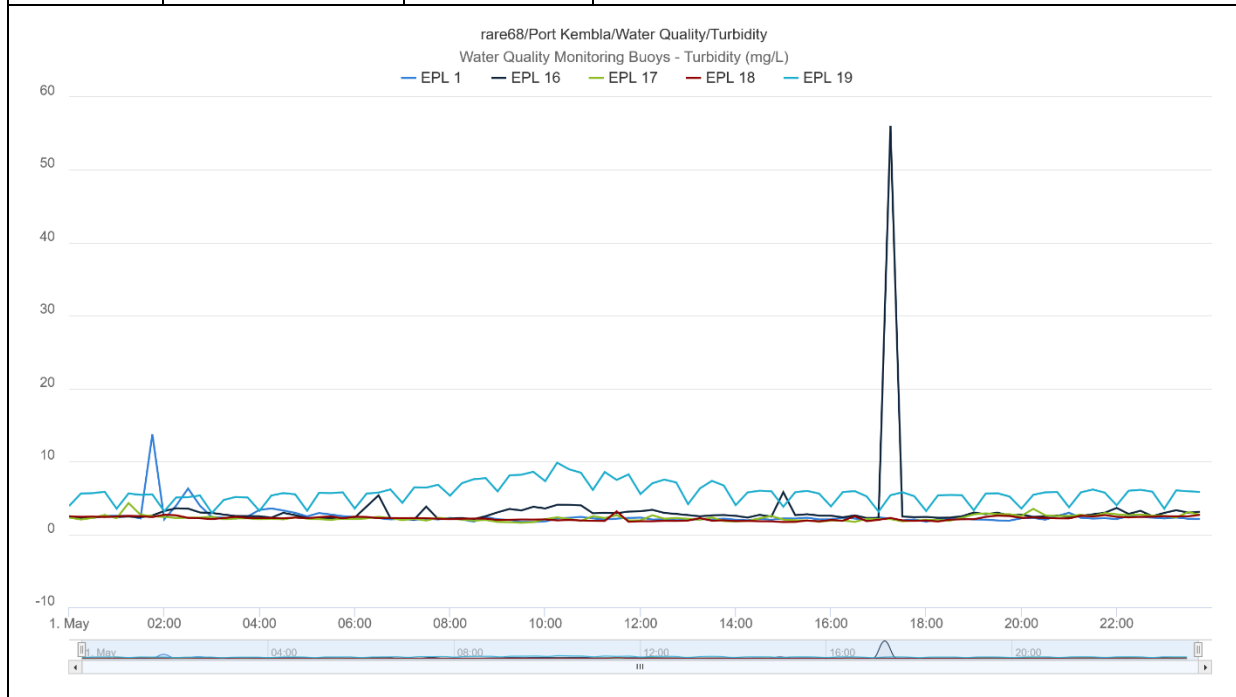
Each exceedance triggers an investigation including the nature of project activities being undertaken, evaluation of wind direction, comparison of upwind and downwind monitors at the time of the event. Dust prevention controls are continually being assessed to ensure their adequacy.

## Air Monitoring Events Above Criteria

Date	Location	Exceedance value (ug/m <sup>3</sup> /24 hours)	Action Taken & Investigation Outcomes
-	-	-	No exceedances for the reporting period.

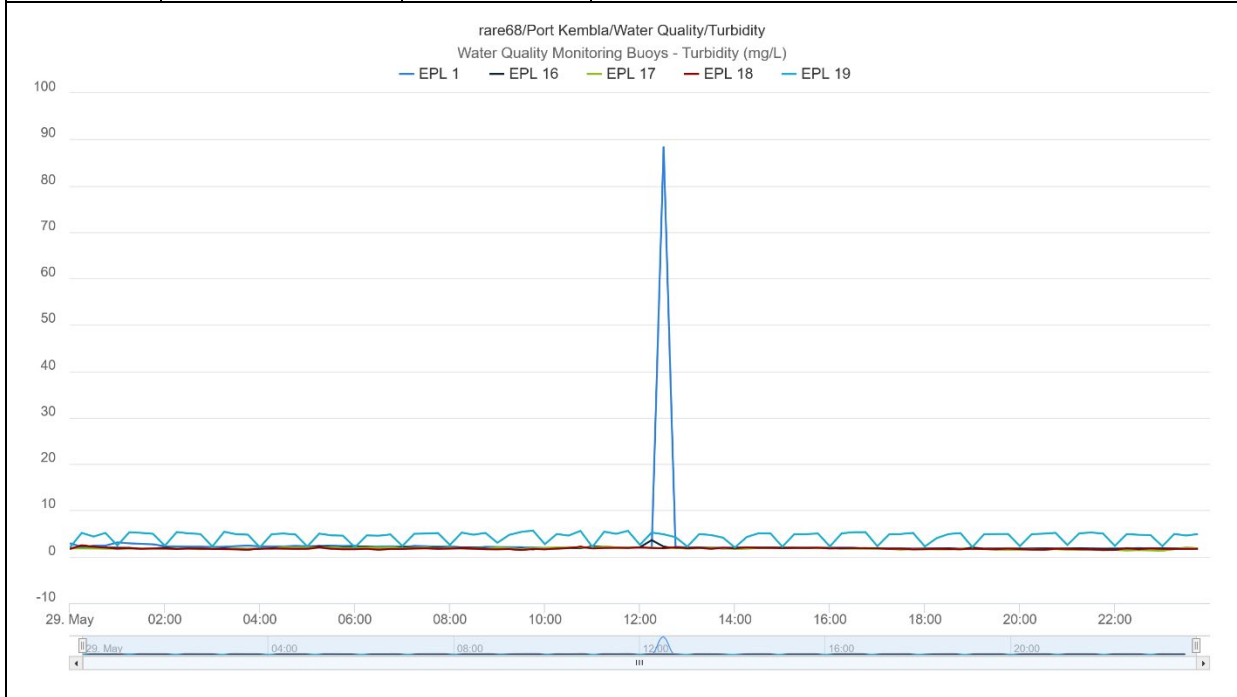
## Water Monitoring Events Above Criteria: Harbour water quality – Continuous monitoring results – Turbidity

Date	Max. Background Buoy Value (Turbidity NTU)	Max. Receiver Buoy Value Turbidity (NTU)	Action Taken & Investigation Outcomes
	<i>Performance Criteria</i>	<i>35 + BG</i>	
May 1 <sup>st</sup> 2023	WQM4 / EPL 18: 3.15 WQM5 / EPL 19: 9.83	WQM1 / EPL 1: 13.73 WQM2 / EPL 16: <b>54</b> WQM3 / EPL 17: 4.29	A chart showing turbidity readings for the day of the recorded exceedance is provided below. The exceedance was a one-off peak reading. Throughout the day there were consistent low-level readings observed at both the other impact and background buoys indicating this exceedance was most likely related to biofouling over the sensor. No dredging operations were occurring at the time.





Date	Max. Background Buoy Value (Turbidity NTU)	Max. Receiver Buoy Value Turbidity (NTU)	Action Taken & Investigation Outcomes
	<i>Performance Criteria</i>	<i>35 + BG</i>	
May 29 <sup>th</sup> 2023	WQM4 / EPL 18: 2.5 WQM5 / EPL 19: 5.67	WQM1 / EPL 1: <b>87</b> WQM2 / EPL 16: 2 WQM3 / EPL 17: 2.18	A chart showing turbidity readings for the day of the recorded exceedance is provided below. The exceedance was a one-off peak reading. Throughout the day there were consistent low-level readings observed at both the other impact and background buoys indicating this exceedance was most likely related to biofouling over the sensor. No dredging operations were occurring at the time.



# Appendix C – EPL 24 Data

This is a mobile monitoring point located five metres outside the silt curtain around Berth 101. Point 24 is required to be sampled daily for Total Suspended Solids (TSS) during dredging activities. TSS is monitored in real time using turbidity in NTU and the NTU-TSS correlation as recommended in the current EPL or from an in-field study approved by the EPA, whichever is more current at the time of measurement.

## *EPL 24 Daily Average Monitoring Results*

Date	Turbidity (NTU)
1/05/2023	NA
2/05/2023	NA
3/05/2023	NA
4/05/2023	NA
5/05/2023	NA
6/05/2023	NA
7/05/2023	NA
8/05/2023	NA
9/05/2023	NA
10/05/2023	NA
11/05/2023	NA
12/05/2023	NA
13/05/2023	NA
14/05/2023	NA
15/05/2023	NA
16/05/2023	NA
17/05/2023	NA
18/05/2023	NA
19/05/2023	NA
20/05/2023	NA
21/05/2023	NA
22/05/2023	NA
23/05/2023	NA
24/05/2023	NA
25/05/2023	NA
26/05/2023	NA
27/05/2023	NA
28/05/2023	NA
29/05/2023	NA
30/05/2023	NA
31/05/2023	NA

Note: For dates where no results are recorded, no dredging activities at Berth 101 were undertaken.