





Environmental Monitoring Summary ReportPort Kembla Gas Terminal

Infrastructure Approval SSI-9471 EPL Licence Number: 21529

Reporting period: 1 February 2024 – 29 February

Date published: 22 March 2024



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 Liquified Natural Gas (LNG) Carrier to berth alongside the Floating Storage and Regasification 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							
	Australian Industrial Energy Pty Ltd							
Licensee:	PO Box 3155 Broadway							
	Nedlands WA 6009							
Premises:	Port Kembla Gas Terminal, Port Kembla NSW 2505							
	Contaminated soil treatment							
Scheduled Activity	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:
	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
DPIE		Access to information – From the commencement of development under this approval, the Proponent shall:	the Project Website.
SSI-9471		(a) Make copies of the following information publicly available on its website:	
	Sch. 4 Cond. 12	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

- Ongoing management / handling of rock fill material and emplacement cell materials at the Outer Harbour.
- Ongoing emplacement cell construction in the Outer Harbour.
- Decomissioning of the sheet pile coffer dam, completion works for the stormwater channel culvert works and tie in at Outer Harbour.
- Deconstruction of the Temporary Load-out Facility (TLF) at the Outer Harbour.
- Trenching activities at Berth 101.
- Ongoing wharf construction and wharf rectification works at Berth 101.
- Ongoing installation of ORF underground services / utilities at Berth 101.



3.3 Project activities for the upcoming month

- Ongoing management / handling of rock fill material and emplacement cell fill materials at the Outer Harbour.
- Final grading of the seabed at B101 and OH.
- Removal of Silt curtain at B101 and OH
- Complete the bund section in place of the TLF, install geofabric and rock armour.
- Ongoing emplacement cell construction in the Outer Harbour
- Ongoing installation of ORF underground services / utilities.
- Ongoing wharf construction / rectification works at Berth 101.



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	Particulates -	Monthly	
10	Southern boundary of Berth 101	Gauge	Deposited Matter	Wiorithly	
12	Southern side of emplacement area, Outer Harbour	Ambient Air Monitoring -	(gm/m²/month) Total suspended	Special Frequency 1	
14	Eastern side of emplacement area, Outer Harbour	High Volume Air Sampler	particles (TSP) (ug/m³)	(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				
11	Southern boundary of Berth 101				
13	Southern side of emplacement area, Outer Harbour	Real time dust monitoring	PM10 (ug/m³)	Continuous	
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	parameter			
			Total Su	spended Pa	rticulate		PM10		
		Particulates	(High V	olume Air Sa	ampler)	(Real-time			
Monitorin Location (EPL Refer		Deposited Matter	Average	Min.	Max.	Average	Min.	Max.	Events above
		(Depositional dust gauge) ²							criteria ¹
Unit		g/m²/month	mg/m³	mg/m³	mg/m³	μg/m³/24 hr average	μg/m³/24 hr average	μg/m³/24 hr average	No.
Performance	Criteria ³	NA	NA	NA	NA	NA	NA	200	NA
Berth	EPL 8	5.60	0.19	0.11	0.27	No PM10 i	NA		
101 North	EPL 9	No Dust Depos		ion Gauge or HiVol required at this EPL Point			28.13	111.65	0
Berth	EPL 10	3.10	0.23	0.07	0.55	No PM10 monitoring required at this EPL Point			NA
101 South	EPL 11	No Dust Depos	ition Gauge or HiVol required at this EPL Point			54.64	19.00	200.21	1
Outer	EPL 12	0.50	0.07	0.03	0.15		monitoring re his EPL Point	•	NA
Harbour South	EPL 13	No Dust Depos	ition Gauge this EPL P		quired at	30.39	12.40	58.36	0
Outer Harbour	EPL 14	0.50	0.06	0.04	0.09		monitoring re his EPL Point		NA
East	EPL 15	No Dust Depos	ition Gauge this EPL P		quired at	49.90	24.25	92.54	0
Outer Harbour	EPL 22	0.80	0.05	0.04	0.07	No PM10 monitoring required at this EPL Point			NA
North	EPL 23	No Dust Depos	ition Gauge this EPL P		quired at	26.31	9.67	47.47	0

¹Includes individual number of times results recorded above Stage 2A and Stage 2B performance criteria (200 ug/m³/24 hour average). Refer to **Appendix B** for event above criteria reports. Note that the performance criteria is based on an internal criteria and is not a requirement under the EPL.

³Internal performance criteria as per the Port Kembla Gas Terminal Air Quality Management Plan - Stage 2A and 2B Marine Berth Construction and Dredging – Land and Marine Based (May 2022).

²Assessed 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			Paramete	ers
Ref.	Monitoring location	Type of monitoring	Continuous monitoring at 15 min intervals	Weekly grab sample
1	WQM1 - North of Berth 101	Primary- impact works area receiver		- Aluminium - Arsenic
16	WQM2 - North of the emplacement cell, Outer Harbour.	Primary- impact works area receiver	- Turbidity	- Cadmium - Chromium (total) - Cobalt
17	WQM3 - South West of Berth 101	Primary- impact works area receiver	- Temperature - pH	- Copper - Lead - Mercury
18	WQM4 - Near the Pacific Ocean entrance to Outer Harbour	Background water quality	- Salinity (EC) - Dissolved oxygen	- Nickel - Total PAHs - Tributyltin
19	WQM5 - Near entrance to Allans Creek, near BlueScope Steel	Background water quality		- TSS - Turbidity - Zinc

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. No dredging works were undertaken at Berth 101 during this reporting period; therefore, water quality monitoring was not undertaken 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	Monitoring location	Type of monitoring	Parameters					
Ref.	Ref.	Type of monitoring	Prior to discharge	Daily grab sample	during discharge			
20	Sediment basin discharge point at the southern end of Berth 101	Wet weather discharge quality	Oil and grease (visual)Total suspended solids (TSS)	 Aluminium Arsenic Cadmium Chromium Cobalt Copper Lead Mercury 	 Nickel Oil and grease (visual) pH Total PAHs Tributyltin TSS Zinc 			



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

			Results - based	on individual 15-	minute median	
	Statistic	Turbidity (NTU)	Temperature (Deg. C)	Hd	Electrical conductivity (uS/cm2)	Dissolved Oxygen (%sat)
Performance Criteria ⁴		35 + BG ¹	N/A	6.5 – 8.5	N/A	70 – 110
	Average	3.0	23.5	8.1	52275.3	94.6
WQM1	Minimum	1.2	20.4	7.9	42937.7	75.4
EPL 1	Maximum	23.9	27.4	8.3	53584.9	129.9
	Events above criteria ²	0	=	0	=	12
	Average	2.8	23.0	8.3	53365.3	101.1
WQM2	Minimum	1.8	21.1	8.0	50453.4	85.6
EPL 16	Maximum	11.1	25.3	8.4	53856.6	121.2
	Events above criteria ²	0	-	0	-	10
	Average	1.6	23.5	8.1	52706.6	97.0
WQM3	Minimum	0.8	18.2	8.0	45273.2	74.8
EPL 17	Maximum	8.0	27.5	8.3	53608.3	129.6
	Events above criteria ²	0	=	0	=	12
WQM4	Average	2.7	23.0	8.6	53047.9	100.9
EPL 18	Minimum	0.0	21.5	8.4	49273.3	84.2
(Background)	Maximum	30.8	25.6	8.8	53724.2	124.4
WQM5	Average	5.0	27.3	8.1	50600.1	97.4
EPL 19	Minimum	1.0	22.6	7.8	18784.2	84.2
(Background)	Maximum	19.9	31.1	8.2	53519.8	113.4
Mobile WQM /	Average	NA				
EPL 24	Minimum	NA		Not required a	at this EPL point	
(Ambient) ³	Maximum	NA	ļ	Not required a	it tills Er E pollit	
	Events above criteria ²	NA				

¹Total 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.

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

³Complete results for this point are included as **Appendix C**. Data at this point is collected daily during dredging.

⁴Internal performance criteria as per the Port Kembla Gas Terminal Water Quality Monitoring Plan - Stage 2A and 2B Marine Berth Construction and Dredging – Land and Marine Based (May 2022), with the exception of NTU criteria set for EPL 24 which is based on EPL criteria.









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

Monitor ing Location	Statistic ²	Aluminium	Ammonia³	Arsenic	Cadmium	Chromium (total)	Cobalt	Copper	lron³	Lead	Mercury	Nickel	Reactive Phosphorus ³	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
Perform ance Criteria ⁴		200	-	50	5.5	4.4	1	8	-	12	0.4	70	-	50	50	6	21
	Average	<5	0.22	1.68	<0.2	0.60	<0.2	<1	<5	<0.2	<0.1	0.93	0.01	<0.05	<5	<2	<5
WQM1	Minimum	<5	0.22	1.50	<0.2	0.60	<0.2	<1	<5	<0.2	<0.1	0.80	0.01	<0.05	<5	<2	<5
EPL 1	Maximum	<5	0.22	1.90	<0.2	0.60	<0.2	<1	<5	<0.2	<0.1	1.20	0.01	<0.05	<5	<2	<5
	Events above criteria ¹	0	-	0	0	0	0	0	-	0	0	0	-	0	0	0	0
	Average	<5	0.13	1.56	<0.2	0.80	<0.2	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
WQM2	Minimum	<5	0.13	1.40	<0.2	0.80	<0.2	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
EPL 16	Maximum	<5	0.13	1.80	<0.2	0.80	<0.2	<1	<5	<0.2	<0.1	<0.5	<0.01	<0.05	<5	<2	<5
	Events above criteria ¹	0	-	0	0	0	0	0	-	0	0	0	-	0	0	0	0
	Average	<5	0.19	1.62	<0.2	0.90	<0.2	<1	<5	<0.2	<0.1	0.77	<0.01	<0.05	<5	<2	<5
WQM3	Minimum	<5	0.19	1.40	<0.2	0.90	<0.2	<1	<5	<0.2	<0.1	0.50	<0.01	<0.05	<5	<2	<5
EPL 17	Maximum	<5	0.19	1.80	<0.2	0.90	<0.2	<1	<5	<0.2	<0.1	1.10	<0.01	<0.05	<5	<2	<5
	Events above criteria ¹	0	-	0	0	0	0	0	-	0	0	0	-	0	0	0	0
WQM4	Average	<5	0.14	1.56	<0.2	0.80	<0.2	<1	<5	<0.2	<0.1	0.65	<0.01	<0.05	<5	<2	<5
EPL 18	Minimum	<5	0.14	1.30	<0.2	0.60	<0.2	<1	<5	<0.2	<0.1	0.60	<0.01	<0.05	<5	<2	<5
11110	Maximum	<5	0.14	1.70	<0.2	1.00	<0.2	<1	<5	<0.2	<0.1	0.70	<0.01	<0.05	<5	<2	<5
WQM5	Average	<5	0.25	1.60	<0.2	0.80	<0.2	1.00	<5	<0.2	<0.1	1.28	0.01	<0.05	<5	<2	<5
EPL 19	Minimum	<5	0.25	1.40	<0.2	0.80	<0.2	1.00	<5	<0.2	<0.1	1.00	0.01	<0.05	<5	<2	<5
21 2 13	Maximum	<5	0.25	1.80	<0.2	0.80	<0.2	1.00	<5	<0.2	< 0.1	1.60	0.01	<0.05	<5	<2	<5

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

²Only 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.

³These analytes are only sampled for once a month per the project's ASSMP.

Internal performance criteria as per the Port Kembla Gas Terminal Water Quality Monitoring Plan - Stage 2A and 2B Marine Berth Construction and Dredging – Land and Marine Based (May 2022), with the exception of NTU criteria set for EPL 24 which is based on EPL criteria.









4.2.4 Water Quality Monitoring Results – Sediment basin discharge

During the reporting month, there were no discharge events due to sufficient capacity in the basin and / or lack of rainfall. Refer to Section 4.3 for site weather monitoring details.

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	Hd	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	-	mg/L	μg/L	-	mm
Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	Visible	NA	NA	NA
N/A	-	-	-	=	-	-	-	-	-	-	-	=	ı	-	ı	-	-



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
		Average	3.86
Wind velocity	m/s (15min average)	Minimum	0.07
		Maximum	10.50
Wind direction at 10m	Degrees (1 hour averaging period)	See Wind Rose cl	nart (Figure 4-1)
		Average	0.01
Rainfall (Hour)	mm/hr (1 hour averaging period)	Minimum	0.00
	репои)	Maximum	0.83
		Average	2.32
Rainfall (Daily)	mm/day	Minimum	0.00
		Maximum	24.00
Rainfall (Month)	mm/month	Total	72.00
		Average	22.55
Temperature	Degrees Celsius	Minimum	16.60
		Maximum	33.00
		Average	82.89
Humidity	%	Minimum	42.60
		Maximum	100.00



rare68/Port Kembla/Air Quality/EPL 21 - Met Station/Wind Rose Chart [2024-02-01 00:00:00 - 2024-02-29 23:59:59]

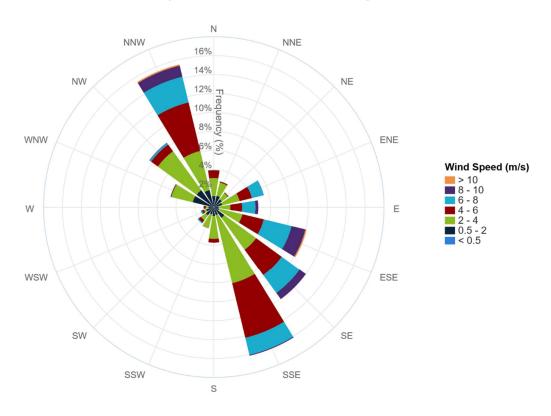


Figure 4-1 Wind Rose chart for the reporting period.



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
N/A	=	No complaints received during the reporting month	NA





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/m³/24 hours)	Action Taken & Investigation Outcomes
February 12 th 2024	EPL 11	200.21	This exceedance was related to high winds and the water cart being on stand down due to an interruption to the site's water supply. The supply was restored within 24 hrs and no further exceedances were observed.

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

Date	Max. Background Buoy Value (Turbidity NTU) Background (BG)	Max. Receiver Buoy Value Turbidity (NTU) Performance criteria - 35 + BG¹	Action Taken & Investigation Outcomes		
N/A	N/A	N/A	N/A		
No NTU exceedances recorded during the reporting period					

¹Total 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.

Water Monitoring Events Above Criteria: Harbour water quality – Continuous monitoring results – Dissolved Oxygen

Date	Max. Background Buoy Value (DO%)	Max. Receiver Buoy Value (DO%) Performance	Action Taken & Investigation Outcomes
	Background (BG)	criteria - 70 - 110	
		WQM1 / EPL 1: 12 exceedances between data range of 113.62 -129.9	
February 1 st to February 29 th 2024	WQM4 / EPL 18: 140.31 WQM5 / EPL 19: 123.38	WQM2 / EPL 16: 10 exceedances between data range of 110.43 - 121.2	Dissolved Oxygen is a measure of the amount of oxygen available to living aquatic organisms. Generally, the colder water is, the more oxygen it can hold. As the water becomes warmer the less oxygen can be dissolved in it. Aeration of the water will also increase DO levels. As elevated DO levels were observed at both receiver and background buoys, these levels reflect wider trends in the harbour and are unrelated to project activities.
		WQM3 / EPL 17: 12 exceedances between data range of 112.22 - 129.6	
140		Water Quality Monitoring	Vater Quality/Dissolved Oxygen ng Buoys - Dissolved Oxygen (%) — EPL 17 — EPL 18 — EPL 19
130 120 110 100 90			
70 2. Feb	4. Feb 6. Feb 8. Feb	10. Feb 12. Feb 14. Fe	A Part of the second of the se
	art shows DO observation	s across all buoys fo	

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. For this reporting period an NTU-TSS correlation of 35 NTU being equivalent to 50 mg/L TSS has been adopted.

Date	Turbidity (NTU) ¹
1/02/2024	N/A
2/02/2024	N/A
3/02/2024	N/A
4/02/2024	N/A
5/02/2024	N/A
6/02/2024	N/A
7/02/2024	N/A
8/02/2024	N/A
9/02/2024	N/A
10/02/2024	N/A
11/02/2024	N/A
12/02/2024	N/A
13/02/2024	N/A
14/02/2024	N/A
15/02/2024	N/A
16/02/2024	N/A
17/02/2024	N/A
18/02/2024	N/A
19/02/2024	N/A
20/02/2024	N/A
21/02/2024	N/A
22/02/2024	N/A
23/02/2024	N/A
24/02/2024	N/A
25/02/2024	N/A
26/02/2024	N/A
27/02/2024	N/A
28/02/2024	N/A
29/02/2024	N/A

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

 $^{^{\,1}}$ An average of a series of results are taken to obtain a representative sample.