



# **Environmental Monitoring Summary Report**

Port Kembla Gas Terminal

Infrastructure ApprovalSSI-9471EPL Licence Number:21529

Reporting period: **1 January 2022 – 31 January 2022** 

Date published: 03 March 2022



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#### **Project background** 1

AIE is developing 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 (the Approval) from the Minister for Planning and Public Spaces on 29 of April 2019, approval SSI-9471.

The construction of the Project is primarily associated with the establishment of a new berth facility at Port Kembla to enable an 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 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.

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			
	Chemical storage			
Scheduled Activity	Contaminated soil treatment			
	Crushing, grinding or separating			

Table 1-1 EPL Details





## 2 Report purpose

This Monthly Environmental Monitoring Report has been prepared to satisfy the monitoring data reporting requirements of the approval and environmental management plans as detailed further below in Table 2-1 for the reporting month of January 2022.

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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.	
DPIE SSI-9471	Sch. 4 Cond. 12	<ul> <li>Access to information – From the commencement of development under this approval, the Proponent shall:</li> <li>(a) Make copies of the following information publicly available on its website: <ul> <li>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</li> </ul></li></ul>	This report to be made available on the Project Website.
AIE Air Quality Management Plan	Section 11.4.2	A summary of monthly data will be published on the Project's webpage, noting any exceedance of EPL trigger value, investigation, and response.	This report
		<b>Regular reporting</b> A summary of monthly data will be published on the PKGT AIE website in the form of a report. The report will note details for:	This report which will be made available on the Project Website.
		- Any exceedance of trigger values, the subsequent investigation and response/resolution	Section 4 and Appendix B
AIE		- Complaint summary (if applicable)	Section 4.4
Water Quality Management Plan	Section 9.4.2	<ul> <li>Statistics related to productivity of work (actual workflow vs planned) including details on any delays encountered</li> </ul>	Section 3.1
		- Forecasting for future works	Section 3.3
		- Activities completed for the month	Section 3.2
		- Activities planner for the next month	Section 3.3
		<ul> <li>Current risks and issues, including impact level and mitigation measures.</li> </ul>	Section 0





## 3 Project activities

### 3.1 Project status

Early Enabling works was completed this month. The works included:

- Excavation to allow removal of existing structures and services and facilitate construction of the quay wall
- Demolition/removal of Berth 101 and aboveground structures
- Demolition/removal of aboveground and underground services
- Relocation of existing stockpiles onsite
- Transport of spoil via road from the Marine Berth and Dredging Site Compound to the Emplacement Cell Construction Site in the Outer Harbour
- Platform excavation and stockpiling
- Processing demolished materials (for re-use or recycling) by others.
- Cone Penetration Testing in the Outer Harbour

The project has progressed to Stage 2A: Marine Berth Construction – Land Based. The Stage 2A works include:

- Quay wall construction
- Installation of communications conduit, potable water line, and 11kV power cable and Padmount Substation within MBD Site Compound
- Construction of the 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
- 3.2 Project activities for the reporting month
  - Concrete processing
  - Completion of Berth 101 pile removal
  - Mobilization of Piling contractor for new wharf construction
  - Construction of piling pad within northern excavation
- 3.3 Project activities for the upcoming month
  - Completion of piling pad
  - Installation of new wharf piles





### 3.4 Current project environmental risks and controls

The identified environmental risk and proposed mitigation measures and controls for the current and foreseeable construction activities are presented in Table 3-1.

#### Table 3-1 Project environmental risks

Ref.	Environmental risk		Associated activity	Mitigation measure	
Ner.	Aspect	Impact	Associated activity	Witigation measure	
				Implementation of the Construction Water Quality Monitoring Plan (CWQMP)	
2106_01	Water quality	Water pollution	Construction works adjacent to the Port Kembla	Water quality monitoring and reporting	
			Harbour	Implementation of water discharge permit procedure for sediment basin discharge.	
2106_02	Air quality	Generation of nuisance	Demolition works	Implementation of the Air Quality Management Plan	
2106_02		dust levels	Demontion works	Continuous air quality monitoring	
				Establishment and implementation of environmental procedures and processes	
2106_03	Environmental compliance	Breach of legislation and or Management Plan requirements	Commencement of and ongoing works	Liaisons with regulatory authorities and seek clarification where required	
				Regular site inspections and coordination meetings with contractor	



### 4 Environmental monitoring data

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

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

https://ausindenergy.com/environmental-information/

### 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 demolition area (Berth 101), and to the east, west and central portion of the Outer Harbour stockpile area.

A summary of the air quality monitoring locations are 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/m²/month)	Monthly	
10	Southern boundary of Berth 101				
12	Southern side of emplacement area, Outer Harbour	and	and		
14	Eastern side of emplacement area, Outer Harbour	Ambient Air Monitoring - High Volume Air	Total Suspended Particles (TSP)	Special Frequency 1 (24-hour period every 6 days)	
22	Northern side of emplacement area, Outer Harbour	Sampler	(ug/m³)		
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	PM <sub>10</sub> (ug/m <sup>3</sup> )	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 **Error! Reference source not found.**.

Table 4-2 Air quality	monitoring results
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Monitoring Location			Monitoring parameter							
(EPL Reference	e)		Total Suspended Particles			PM10				
			(High	Volume Air S	ampler)		(Real-time tr	acker)		
		Particulates Deposited Matter (Depositional dust gauge) <sup>2</sup>	Average	Minimum	Maximum	Average	Minimum	Maximum	Events above criteria <sup>1</sup>	
Unit		g/m²/month	ug/m³	ug/m³	ug/m³	ug/m³/24 hours	ug/m³/24 hours	ug/m³/24 hours	No.	
Criteria		NA	NA	NA	NA	90 <sup>3</sup>	NA	200	NA	
Berth 101	EPL 8	4.40	0.23 0.06 0.52			No PM10 monitoring required at this EPL Point			NA	
North	EPL 9	No Dust Dep	Io Dust Deposition Gauge or HiVol required at this EPL Point			54.79	19.67	117.13	0	
Berth 101	EPL 10	1.80	0.17	0.04	0.34	No PM10 monitoring required at this EPL Point		NA		
South	EPL 11	No dust gauge or HiVol required at this EPL Point			36.12	15.50	118.96	0		
Outer Harbour	EPL 12	0.20	0.04	0.01	0.06	No PM10	) monitoring EPL Poir	required at this nt	NA	
South	EPL 13	No dust gauge	e or HiVol re	equired at thi	s EPL Point	16.74	6.64	34.77	0	
Outer Harbour	EPL 14	0.10	0.08	0.05	0.13	No PM10	) monitoring EPL Poir	required at this nt	NA	
East	EPL 15	No dust gauge	auge or HiVol required at this EPL Point			27.98	12.14	74.38	0	
Outer Harbour	EPL 22	0.20	0.04	0.00	0.08	No PM10	) monitoring EPL Poir	required at this nt	NA	
North	EPL 23	No dust gauge	e or HiVol re	equired at thi	s EPL Point	18.36	5.48	37.59	0	

<sup>1</sup>Includes individual number of times results recorded above criteria. Refer to Appendix B for event above criteria reports.

<sup>2</sup>Assessed as Total Insoluble.

<sup>3</sup>Criteria uses an averaging period of a year, data presented is averaged over the month.





#### Water quality 4.2

#### Water quality monitoring locations and frequency 4.2.1

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 licence reference is provided below in Table 4-3.

#### Table 4-3 Harbour water quality monitoring locations

EPL			Parameters			
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		
16	WQM2 - North of the emplacement cell, Outer Harbour. No more than 20m from emplacement cell silt curtain	Primary- impact works area receiver	- Turbidity - Temperature	<ul> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium (total)</li> <li>Cobalt</li> <li>Copper</li> </ul>		
17	<b>WQM3</b> - South West of Berth 101	Primary- impact works area receiver	- pH - Electrical Conductivity	- Lead - Mercury		
18	WQM4 - Near the Pacific Ocean entrance to Outer Harbour	Background water quality	- Dissolved oxygen	- Nickel - Tributyltin - TSS - Zinc		
19	WQM5 - Near entrance to Allans Creek, near Bluescope Steel	Background water quality		- PAH		

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 bas	in discharge monitoring
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EPL	Monitoring	Monitoring location Type of monitoring	Parameters			
Ref.			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> <li>Ensure water is free of oil &amp; grease (visual) and can meet EPL requirement for TSS level (50mg/L)</li> </ul>	<ul> <li>Aluminium</li> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium</li> <li>Chromium</li> <li>PH</li> <li>Cobalt</li> <li>PAHs</li> <li>Copper</li> <li>Tributyltin</li> <li>Lead</li> <li>TSS</li> <li>Mercury</li> <li>Zinc</li> </ul>		





With the variation of the EPL in August 2021, a new ambient water quality monitoring point was added, Point 24. 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 pile removal activities. Turbidity can be used in place of TSS to enable real time readings. The correlation utilised during this reporting period is a turbidity value equivalent of 50 NTU to 50 mg/L TSS. Details of the monitoring requirements associated with EPL Point 24 are included below in Table 4-5 Silt curtain monitoring

#### Table 4-5 Silt curtain monitoring

EPL Ref.	Monitoring location	Type of monitoring	Parameter	Frequency
24	Mobile monitoring point within 5m of the outermost silt curtain near Berth101	Ambient water quality	<ul> <li>TSS (via grab sample or determined using turbidity reading and appropriate correlation)</li> </ul>	Daily during pile removal activities

The piling barge arrived 9<sup>th</sup> September 2021, with monitoring undertaken at Point 24 thereafter during pile removal activities. Piling removal was completed on the 16<sup>th</sup> January 2022, with monitoring at Point 24 suspended. Monitoring will resume with the commencement of dredging.

#### 4.2.2 Continuous water quality monitoring results

A summary of the results for the continuous water quality monitoring in the harbour is presented below in Table 4-6. Further details for events above criteria as indicated below are provided in Appendix B.





#### Table 4-6 Harbour water quality – Continuous monitoring results

		Results - based on individual 15-minute median							
Monitoring location	Statistic	Turbidity (NTU)	Temperature (Deg. C)	Hd	Electrical conductivity (uS/cm)	Dissolved Oxygen (%sat)			
Criteria		25 <sup>1</sup> /50 <sup>3</sup>	N/A	N/A	N/A	N/A			
	Average	35.9	23.1	8.2	49793.5	94.4			
	Minimum	0.9	18.2	8.0	115.8	66.9			
WQM1 / EPL 1	Maximum	981.4	26.9	8.4	52951.9	159.3			
	Events above criteria <sup>2</sup>	0	-	-	-	-			
	Average	5.6	22.8	8.2	51367.7	103.5			
	Minimum	1.2	19.7	8.1	70.6	84.0			
WQM2 / EPL 16	Maximum	672.6	25.9	8.3	52738.5	136.8			
	Events above criteria²	0	-	-	-	-			
	Average	2.8	23.2	8.1	50051.5	99.3			
	Minimum	0.9	18.9	7.8	78.2	72.1			
WQM3 / EPL 17	Maximum	30.8	27.6	8.3	52886.4	157.9			
	Events above criteria <sup>2</sup>	0	-	-	-	-			
	Average	3.0	22.6	8.1	45076.7	97.9			
WQM4 / EPL 18 (Background)	Minimum	1.2	19.3	7.3	0.6	40.9			
	Maximum	1632.9	30.5	8.8	53038.4	141.9			
	Average	13.9	26.0	8.7	48255.0	95.2			
WQM5 / EPL 19 (Background)	Minimum	1.4	19.5	8.0	90.5	71.0			
	Maximum	451.0	32.8	9.1	52780.3	125.6			
Mobile WQM /	Average	3.04							
EPL 24	Minimum	0.63							
(Ambient)	Maximum	12.75		No monitoring re	equired at this EPL I	Point			
	Events above criteria <sup>2</sup>	0							

<sup>1</sup>Indicative value based on previous EPL's issued at Port Kembla indicate that 50 mg/l of suspended sediment is equal to 25 NTU (as per CWQMP).

<sup>2</sup>Includes individual number of times results exceeded background. Refer to Appendix B for report on results above criteria.

<sup>3</sup>Criteria applies to EPL 24 only based on the correlation of 50 mg/l of suspended sediment equal to 50 NTU as specified in the EPL.



#### 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 Error! Not a valid bookmark self-reference.

#### Table 4-7 Harbour water quality – Weekly grab sample results summary

Monitoring Location	Statistic	Aluminium	Arsenic	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Nickel	Total PAHs <sup>3*</sup>	Total Suspended Solids (TSS)	Tributyltin	Zinc
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Ug/L	ug/L	ug/L	mg/L	ug/L
Criteria <sup>2</sup>		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50 + BG	N/A	N/A
	Average <sup>3</sup>	54.25	3.90	<1	3.50	<1	4.25	2.88	<0.1	3.05	<0.05	4.25	<0.002	17.00
WQM1/	Minimum	5.00	1.70	<1	0.50	<1	1.00	0.20	<0.1	0.50	<0.05	2.00	<0.002	5.00
EPL 1	Maximum <sup>3</sup>	100.00	10.00	<1	10.00	<1	10.00	10.00	<0.1	10.00	<0.05	5.00	<0.002	50.00
	Events above criteria <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	0	-	-
	Average <sup>3</sup>	44.75	3.88	<1	3.50	<1	4.00	2.95	<0.1	3.00	<0.05	4.75	<0.002	15.75
WQM2/	Minimum	5.00	1.70	<1	0.50	<1	1.00	0.20	<0.1	0.50	<0.05	1.00	<0.002	3.00
EPL16	Maximum <sup>3</sup>	100.00	10.00	<1	10.00	<1	10.00	10.00	<0.1	10.00	<0.05	8.00	<0.002	50.00
	Events above criteria <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	0	-	-
	Average <sup>3</sup>	49.75	3.95	<1	3.50	<1	4.00	2.90	<0.1	3.00	<0.05	4.75	<0.002	16.25
WQM3/	Minimum	5.00	1.90	<1	0.50	<1	1.00	0.20	<0.1	0.50	<0.05	1.00	<0.002	4.00
EPL17	Maximum <sup>3</sup>	100.00	10.00	<1	10.00	<1	10.00	10.00	<0.1	10.00	<0.05	8.00	<0.002	50.00
	Events above criteria <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	0	-	-
	Average <sup>3</sup>	42.50	3.85	<1	3.50	<1	4.00	2.98	<0.1	3.00	<0.05	4.00	<0.002	16.00
WQM4/ EPL18	Minimum	5.00	1.60	<1	0.50	<1	1.00	0.20	<0.1	0.50	<0.05	1.00	<0.002	4.00
	Maximum <sup>3</sup>	100.00	10.00	<1	10.00	<1	10.00	10.00	<0.1	10.00	<0.05	5.00	<0.002	50.00
	Average <sup>3</sup>	60.25	4.00	<1	3.50	<1	5.50	2.98	<0.1	3.33	<0.05	4.25	<0.002	18.50
WQM5/ EPL19	Minimum	5.00	1.80	<1	0.50	<1	2.00	0.20	<0.1	0.70	<0.05	2.00	<0.002	5.00
	Maximum <sup>3</sup>	100.00	10.00	<1	10.00	<1	10.00	10.00	<0.1	10.00	<0.05	5.00	<0.002	50.00

<sup>1</sup>Includes individual number of times results detected above criteria. Refer to Appendix B for report on results on criteria.

<sup>2</sup>BG = Background (WQM4 / WQM5)

<sup>3</sup>In place of a non-detect, the Limit Of Reporting (LOR) for that analyte and method has been substituted in calculating these statistics.

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4.2.4 Water quality monitoring results – sediment basin discharge

During the reporting month, there were eleven (11) authorised discharge events and zero (0) discharge events as a result of excessive rainfall (>43.5 mm in any 5-day period). Refer to Section 4.3 for site weather monitoring details. The date of the discharge event is provided below in Table 4-8.

A summary of the water quality results for the authorised discharge event from the sediment basin is included below in Table 4-8 (continues over next page).

Table 4-8 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
	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
Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	Visible	NA
06/01/2022	<10	<10	<1	<10	<10	<10	<10	<0.2	<10	<1	<2	<5	7.09	Not visible	<0.05
08/01/2022	8	0.6	<0.05	1.8	<0.1	1.2	<0.1	<0.1	<0.5	<0.05	<2	<5	7.45	Not visible	<0.05
10/01/2022	30.00	<1	<0.1	0.20	<0.1	0.20	<1	<0.1	<1	<0.1	<2	<5	7.19	Not visible	<0.05
11/01/2022	70	0.5	<0.05	2.4	<0.1	8.6	0.6	<0.0001	4.6	<0.05	2	<5	7.33	Not visible	<0.05
12/01/2022	80.00	<1	<1	2.00	<0.1	4.00	<1	<0.1	<1	<1	2	<5	7.52	Not visible	<0.05
13/01/2022	97	0.5	<0.05	2.7	<0.1	6.9	1.2	<0.0001	2.4	<0.05	2	9	7.57	Not visible	<0.05
14/01/2022	452	0.9	<0.2	3.0	<0.2	25	1.6	<0.0001	5.2	<0.2	<2	8	8.50	Not visible	<0.05
15/01/2022	245	0.9	<0.05	3.0	<0.1	5.0	0.3	<0.0001	1.2	<0.05	<2	<5	7.82	Not visible	<0.05
16/01/2022	642	1.3	<0.05	2.7	<0.1	6.6	0.7	<0.0001	3.3	<0.05	<2	<5	8.25	Not visible	<0.05
17/01/2022	274	0.4	<0.05	3.0	2.8	15.5	0.7	<0.0001	5.3	<0.05	<2	<5	-	Not visible	<0.05
18/01/2022	80	0.4	<0.05	3.1	<0.1	13.0	0.6	<0.0001	0.7	<0.05	<2	<5	-	Not visible	<0.05

NA = No licence limit



### 4.3 Weather station results

Under the EPL (Condition M5), 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.

AlE 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 the Monitoring Location Plan in Appendix A. The monthly data obtained from the onsite weather station is provided below in Table 4-9.



Parameter	Unit of measure	Monthly statistic	Result EPL Point 21		
		Average	4.10		
Wind velocity	m/s (15min average)	Minimum	0.10		
	(15min average)		12.00		
Wind direction at 10m	Degrees (1hr average)	Average	162.34		
		Average	0.02		
Rainfall rate	mm/hr (1hr average)	Minimum	0.00		
	(IIII average)	Maximum	1.30		
Rainfall (Total)	mm	Monthly total	12.39		
		Average	22.59		
Temperature	Degrees Celsius	Minimum	18.40		
		Maximum	27.10		
		Average	84.00		
Humidity	%	Minimum	58.60		
		Maximum	100.00		



### 4.4 Drone Survey

A monthly drone flyover was undertaken to obtain visual photographs of the Early Enabling Works footprint and wider harbour area. The survey of the MBD Site Compound and Emplacement Cell Construction Site produces high-resolution imagery. This allows for a qualitative assessment of visible impacts of sediment plumes (if any) and silt curtain condition and position amongst other markers.

The drone footage provides a visual representation of the ecological health of Port Kembla and will indicate if there are any visual issues requiring investigation, such as sediment plumes or excessive runoff. No issues were noted in this month's survey. Select photos are provided in Appendix C from the January 2022 survey.



## 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.

Table 5-1 Environmental complaints summary

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



# Appendices



## **Appendix A** – Monitoring Location Plan

# Appendix B – Summary of Events Above Criteria

Each exceedance triggers an investigation including the 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)	Investigation & Actions
No events abo	ove criteria ir	reporting perio	od

Water Monitoring Events Above Criteria

Date	Location	Recorded Value	Action Taken	Investigation Outcomes
No events at	oove criteria in	reporting period		

# Appendix C – Drone Survey Images



Photograph 1: View of removed wharf piles at Berth 101 and construction of piling pad for new wharf pile installation.



Photograph 2: View of Outer Harbour stockpiles showing polymer application and sediment controls in place.