



PORT KEMBLA COAL TERMINAL LTD.



Licencee:	Port Kembla Coal Terminal Limited
Environment Protection Licence:	1625
Licence URL:	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106587&SYSUID=1&LICID=1625
PKCT EPA Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=1625&id=1625&option=licence&searchrange=general&range=POEOlicence&prp=no&status=Issued
Location:	Port Kembla Road, Port Kembla Inner Harbour, Wollongong
Postal Address:	PO Box 823, Wollongong East 2502





PORT KEMBLA COAL TERMINAL LTD.



EPL MONITORING SITES- INDUSTRIAL			Calendar Year 2021																Annual average: grams per square metre.month	
Monthly Analysis		MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Samples collected	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria
EPL No.	Location Gauge Number	analysis: grams/square metre.month																		
1	P1	Insoluble Solids	2.5	1.6	2.9	3.4	7.6	6.2							6	1.6	4.0	7.6		
	25m South	Ash	1.6	1.1	1.9	2.3	5.6	4.6							6	1.1	2.9	5.6		
	BPB Coal Berth	Combustible Matter	0.9	0.5	1.0	1.1	2.0	1.6							6	0.5	1.2	2.0		
2	P2	Insoluble Solids	1.6	1.3	3.2	1.6	5.1	5.5							6	1.3	3.1	5.5		
	40m South of	Ash	0.9	0.8	1.9	1.0	4.0	4.2							6	0.8	2.1	4.2		
	BPB Stockyard	Combustible Matter	0.7	0.5	1.3	0.6	1.1	1.3							6	0.5	0.9	1.3		
3	P3	Insoluble Solids	4.8	2.6	3.5	4.6	15.6	15.6	19.2	22.3					8	2.6	11.0	22.3	9.9	15.0
	40m East of	Ash	3.7	1.7	2.4	3.3	12.7	11.9	16.2	17.2					8	1.7	8.6	17.2		
	BPB Stockyard	Combustible Matter	1.1	0.9	1.1	1.3	2.9	3.7	3.0	5.1					8	0.9	2.4	5.1	2.2	12.0
4	P4	Insoluble Solids	2.3	2.3	1.9	2.4	3.3	5.7	3.5	6.3					8	1.9	3.5	6.3	3.7	15.0
	40m East Coal Berth	Ash	1.3	1.2	1.2	1.4	1.6	2.6	1.6	2.8					8	1.2	1.7	2.8		
	Stockyard	Combustible Matter	1.0	1.1	0.7	1.0	1.7	3.1	1.9	3.5					8	0.7	1.8	3.5	2.0	12.0
5	P5	Insoluble Solids	4.4	4.1	4.3	4.0	3.0	6.8	1.4	5.4					8	1.4	4.2	6.8	4.6	15.0
	Northern Pond	Ash	1.6	1.4	1.6	1.5	1.4	1.9	0.4	2.1					8	0.4	1.5	2.1		
	(No. 1)	Combustible Matter	2.8	2.7	2.7	2.9	1.6	4.9	1.0	3.3					8	1.0	2.7	4.9	3.0	12.0
6	P6	Insoluble Solids	5.4	4.0	4.9	4.7	7.5	5.8	3.8	10.0					8	3.8	5.8	10.0	5.3	15.0
	40m West Coal Berth	Ash	2.1	1.9	2.2	1.9	3.1	2.4	1.6	3.5					8	1.6	2.3	3.5		
	Stockyard	Combustible Matter	3.3	2.1	2.7	2.8	4.4	3.4	2.2	6.5					8	2.1	3.4	6.5	3.1	12.0
7	P7	Insoluble Solids	3.2	2.5	8.9	14.0	11.1	62.6	36.3	15.5					8	2.5	19.3	62.6	13.9	15.0
	260m West No.2	Ash	1.6	1.1	5.8	11.4	8.8	55.6	31.6	14.2					8	1.1	16.3	55.6		
	Coalberth	Combustible Matter	1.6	1.4	3.1	2.6	2.3	7.0	4.7	1.3					8	1.3	3.0	7.0	2.4	12.0
8	P8	Insoluble Solids	5.2	4.3	4.6	10.9	12.9	23.2	9.5	11.7					8	4.3	10.3	23.2	10.2	15.0
	PKCT North	Ash	1.9	1.7	1.5	2.2	3.9	4.3	2.1	2.8					8	1.5	2.6	4.3		
	Truckwash	Combustible Matter	3.3	2.6	3.1	8.7	9.0	18.9	7.4	8.9					8	2.6	7.7	18.9	7.6	12.0
9	P9	Insoluble Solids	3.0	2.4	2.7	1.9	3.0	2.1	1.0	1.8					8	1.0	2.2	3.0	2.5	6.0
	Wollongong	Ash	1.4	1.2	1.2	0.8	1.4	0.9	0.4	0.9					8	0.4	1.0	1.4		
	Wastewater TP.	Combustible Matter	1.6	1.2	1.5	1.1	1.6	1.2	0.6	0.9					8	0.6	1.2	1.6	1.4	4.0
15	P10	Insoluble Solids	5.3	5.6	5.7	5.0	7.3	6.5	3.7	6.3					8	3.7	5.7	7.3	6.2	15.0
	North of PKCT	Ash	2.2	2.2	2.3	2.2	4.1	3.6	1.9	3.7					8	1.9	2.8	4.1		
	Planning Office	Combustible Matter	3.1	3.4	3.4	2.8	3.2	2.9	1.8	2.6					8	1.8	2.9	3.4	3.2	12.0
17	P11	Insoluble Solids	2.0	2.9	2.7	2.1	4.8	4.0	2.9	2.9					8	2.0	3.0	4.8	3.1	6.0
	Entry Gate BlueScoop	Ash	1.5	2.3	2.0	1.6	3.5	3.0	2.1	2.5					8	1.5	2.3	3.5		
	RD.RD Berth (109)	Combustible Matter	0.5	0.6	0.7	0.5	1.3	1.0	0.8	0.4					8	0.4	0.7	1.3	0.7	4.0

MONTHLY REPORT: COMMENTARY ON RESULTS

Note 1: there are no EPL air quality limits in the EPL for industrial monitoring sites. Historical information provides baseline data and assessment criteria has been adopted to assess against actual results to facilitate performance improvement.

SAMPLE PERIOD	Date Sampled	Date Results Obtained	Date Published	COMMENTARY ON RESULTS
January 2021	2/02/2021	22/02/2021	23/02/2021	All sites within assessment criteria
February 2021	2/03/2021	31/03/2021	31/03/2021	All sites within assessment criteria
March 2021	1/04/2021	22/04/2021	4/05/2021	All sites within assessment criteria
April 2021	3/05/2021	18/05/2021	19/05/2021	All sites within assessment criteria
May 2021	1/06/2021	22/06/2021	23/06/2021	All sites within assessment criteria
June 2021	1/07/2021	23/07/2021	26/07/2021	All sites within assessment criteria
July 2021	2/08/2021	23/08/2021	23/08/2021	All sites within assessment criteria. Site P1 and Site P2 have ben relinquished with the handover of the southern portion of PKCT to the AIE Gas Terminal Project.
August 2021	1/09/2021	28/09/2021	28/09/2021	All sites within assessment criteria. Site P1 and Site P2 have ben relinquished with the handover of the southern portion of PKCT to the AIE Gas Terminal Project.



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EPL MONITORING SITES- RESIDENTIAL			Calendar Year 2021												Monthly Analysis				annual average: grams per square metre.month	
MONTH			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC						
EPL No.	Location Gauge Number	Analysis: grams/square metre.month													No. samples collected	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria
12	R1	Insoluble Solids	0.9	0.7	0.4	0.2	0.4	0.3	0.1	0.3					8	0.1	0.4	0.9	0.5	4.0
	157 Church St	Ash	0.7	0.4	0.3	0.2	0.3	0.2	0.1	0.3					8	0.1	0.3	0.7		
	Wollongong	Combustible Matter	0.2	0.3	0.1	<0.1	0.1	0.1	<0.1	<0.1					5	0.1	0.2	0.3	0.2	2.0
19	R2	Insoluble Solids	1.9	1.2	0.7	0.3	1.1	0.5	0.4	0.7					8	0.3	0.9	1.9	1.0	4.0
	Vikings Oval	Ash	0.9	0.4	0.4	0.2	0.6	0.3	0.2	0.4					8	0.2	0.4	0.9		
	Wollongong	Combustible Matter	1.0	0.8	0.3	0.1	0.5	0.2	0.2	0.3					8	0.1	0.4	1.0	0.6	2.0
TBA	R3	Insoluble Solids	1.2	1.6	1.4	0.5	1.1	2.0	0.9	1.2					8	0.5	1.2	2.0	1.2	4.0
	Ross Street	Ash	0.8	1.1	0.9	0.3	0.7	1.3	0.6	1.0					8	0.3	0.8	1.3		
	Wollongong	Combustible Matter	0.4	0.5	0.5	0.2	0.4	0.7	0.3	0.2					8	0.2	0.4	0.7	0.4	2.0
MONTHLY REPORT: COMMENTARY ON RESULTS																				
Note 1: Assessment criteria is based on an EPA guideline of annual average of 4 grams per square metre per month for residential areas. PKCT has adopted a level of 2 grams per square metre for combustible matter for assessment purposes.																				
SAMPLE PERIOD		Date Sampled	Date Results Obtained	Date Published	COMMENTARY															
January 2021		2/02/2021	22/02/2021	23/02/2021	All sites within assessment criteria.															
February 2021		2/03/2021	31/03/2021	31/03/2021	All sites within assessment criteria.															
March 2021		1/04/2021	22/04/2021	4/05/2021	All sites within assessment criteria.															
April 2021		3/05/2021	18/05/2021	19/05/2021	All sites within assessment criteria.															
May 2021		1/06/2021	22/06/2021	23/06/2021	All sites within assessment criteria.															
June 2021		1/07/2021	23/07/2021	26/07/2021	All sites within assessment criteria.															
July 2021		2/08/2021	23/08/2021	23/08/2021	All sites within assessment criteria.															
August 2021		1/09/2021	28/09/2021	28/09/2021	All sites within assessment criteria.															
September 2021																				
October 2021																				
November 2021																				
December 2021																				



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SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: Licenced Discharge POINT 16

Environment Protection Licence: 1625 Type of Monitoring: water quality Frequency: daily grab sample when discharging			water quality parameter		EPL Limit (100 percentile)	
			pH		monitoring only	
			total suspended solids (mg/L)		less than 50	
			oil/ grease (milligrams per litre)		not visible	
Sample Date	Date Results Obtained	Date Published	pH (pH units)	total suspended solids (milligrams per litre)	oil/ grease (milligrams per litre)	Commentary on Results
03/12/2020	21/01/2021	22/01/2021	7.5	7	not visible	EPL compliant
07/12/2020	21/01/2021	22/01/2021	7.0	<5	not visible	EPL compliant
11/12/2020	21/01/2021	22/01/2021	7.9	5	not visible	EPL compliant
14/12/2020	21/01/2021	22/01/2021	7.9	12	not visible	EPL compliant
15/12/2020	21/01/2021	22/01/2021	7.9	6	not visible	EPL compliant
16/12/2020	21/01/2021	22/01/2021	6.5	<5	not visible	EPL compliant
17/12/2020	21/01/2021	22/01/2021	8.0	<5	not visible	EPL compliant
18/12/2020	21/01/2021	22/01/2021	7.9	<5	not visible	EPL compliant
21/12/2020	21/01/2021	22/01/2021	7.1	5	not visible	EPL compliant
22/12/2020	21/01/2021	22/01/2021	7.2	<5	not visible	EPL compliant
27/12/2020	21/01/2021	22/01/2021	7.3	<5	not visible	EPL compliant
28/12/2020	21/01/2021	22/01/2021	7.4	<5	not visible	EPL compliant
29/12/2020	21/01/2021	22/01/2021	7.5	6	not visible	EPL compliant
30/12/2020	21/01/2021	22/01/2021	7.5	<5	not visible	EPL compliant
31/12/2020	21/01/2021	22/01/2021	7.4	6	not visible	EPL compliant
02/01/2021	22/02/2021	23/02/2021	6.8	<5	not visible	EPL compliant
03/01/2021	22/02/2021	23/02/2021	7.0	14	not visible	EPL compliant
04/01/2021	22/02/2021	23/02/2021	7.0	10	not visible	EPL compliant
05/01/2021	22/02/2021	23/02/2021	6.7	<5	not visible	EPL compliant
04/01/2021	22/02/2021	23/02/2021	7.0	<5	not visible	EPL compliant
06/01/2021	22/02/2021	23/02/2021	6.2	9	not visible	EPL compliant
07/01/2021	22/02/2021	23/02/2021	6.1	<5	not visible	EPL compliant
08/01/2021	22/02/2021	23/02/2021	6.7	<5	not visible	EPL compliant
28/01/2021	22/02/2021	23/02/2021	6.6	6	not visible	EPL compliant
29/01/2021	22/02/2021	23/02/2021	6.7	9	not visible	EPL compliant

* "Date Published" refers to this report.

NB TSS (total suspended solids) - under EPL, a TSS water quality limit of 50mg/litre pertains. Exceedance of this limit is permitted when discharge occurs solely as a result of rainfall measured at the premises. For discharge to be considered to occur solely as a result of rainfall, the rainfall must exceed a 5 day rainfall depth value of 90 mm over a consecutive 5 day period.



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SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: Licenced Discharge POINT 16						
Environment Protection Licence: 1625 Type of Monitoring: water quality Frequency: daily grab sample when discharging			water quality parameter		EPL Limit (100 percentile)	
			pH		monitoring only	
			total suspended solids (mg/L)		less than 50	
			oil/ grease (milligrams per litre)		not visible	
Sample Date	Date Results Obtained	Date Published	pH (pH units)	total suspended solids (milligrams per litre)	oil/ grease (milligrams per litre)	Commentary on Results
01/02/2021	31/03/2021	31/03/2021	7.2	8	not visible	EPL compliant
03/02/2021	31/03/2021	31/03/2021	7.4	22	not visible	EPL compliant
05/02/2021	31/03/2021	31/03/2021	6.3	<5	not visible	EPL compliant
06/02/2021	31/03/2021	31/03/2021	6.7	6	not visible	EPL compliant
09/02/2021	31/03/2021	31/03/2021	7.3	<5	not visible	EPL compliant
13/02/2021	31/03/2021	31/03/2021	6.6	<5	not visible	EPL compliant
14/02/2021	31/03/2021	31/03/2021	6.2	<5	not visible	EPL compliant
15/02/2021	31/03/2021	31/03/2021	6.6	<5	not visible	EPL compliant
16/02/2021	31/03/2021	31/03/2021	7.2	13	not visible	EPL compliant
17/02/2021	31/03/2021	31/03/2021	7.3	<5	not visible	EPL compliant
18/02/2021	31/03/2021	31/03/2021	6.7	<5	not visible	EPL compliant
19/02/2021	31/03/2021	31/03/2021	6.3	<5	not visible	EPL compliant
20/02/2021	31/03/2021	31/03/2021	6.2	6	not visible	EPL compliant
24/02/2021	31/03/2021	31/03/2021	7.4	13	not visible	EPL compliant
25/02/2021	31/03/2021	31/03/2021	7.6	<5	not visible	EPL compliant
01/03/2021	22/04/2021	04/05/2021	8.1	15	not visible	EPL compliant
05/03/2021	22/04/2021	04/05/2021	7.1	6	not visible	EPL compliant
14/03/2021	22/04/2021	04/05/2021	6.9	<5	not visible	EPL compliant
15/03/2021	22/04/2021	04/05/2021	7.3	<5	not visible	EPL compliant
17/03/2021	22/04/2021	04/05/2021	7.3	7	not visible	EPL compliant
18/03/2021	22/04/2021	04/05/2021	7.4	<5	not visible	EPL compliant
19/03/2021	22/04/2021	04/05/2021	7.8	8	not visible	EPL compliant
20/03/2021	22/04/2021	04/05/2021	7.6	12	not visible	EPL compliant
21/03/2021	22/04/2021	04/05/2021	7.4	11	not visible	EPL compliant
22/03/2021	22/04/2021	04/05/2021	7.3	27	not visible	EPL compliant
23/03/2021	22/04/2021	04/05/2021	7.6	19	not visible	EPL compliant
24/03/2021	22/04/2021	04/05/2021	6.7	18	not visible	EPL compliant
25/03/2021	22/04/2021	04/05/2021	7.0	<5	not visible	EPL compliant
31/03/2021	22/04/2021	04/05/2021	7.5	<5	not visible	EPL compliant

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SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: Licenced Discharge POINT 16						
Environment Protection Licence: 1625			water quality parameter		EPL Limit (100 percentile)	
Type of Monitoring: water quality			pH		monitoring only	
Frequency: daily grab sample when discharging			total suspended solids (mg/L)		less than 50	
			oil/ grease (milligrams per litre)		not visible	
Sample Date	Date Results Obtained	Date Published	pH (pH units)	total suspended solids (milligrams per litre)	oil/ grease (milligrams per litre)	Commentary on Results
1/04/2021	18/05/2021	19/05/2021	7.0	<5	not visible	EPL compliant
7/04/2021	18/05/2021	19/05/2021	7.6	<5	not visible	EPL compliant
8/04/2021	18/05/2021	19/05/2021	7.4	<5	not visible	EPL compliant
17/04/2021	18/05/2021	19/05/2021	6.5	5	not visible	EPL compliant
5/05/2021	22/06/2021	23/06/2021	6.7	<5	not visible	EPL compliant
6/05/2021	22/06/2021	23/06/2021	6.4	8	not visible	EPL compliant
7/05/2021	22/06/2021	23/06/2021	7.0	23	not visible	EPL compliant
11/05/2021	22/06/2021	23/06/2021	6.3	<5	not visible	EPL compliant
12/05/2021	22/06/2021	23/06/2021	6.5	<5	not visible	EPL compliant
13/05/2021	22/06/2021	23/06/2021	6.0	<5	not visible	EPL compliant
14/05/2021	22/06/2021	23/06/2021	7.6	<5	not visible	EPL compliant
20/05/2021	22/06/2021	23/06/2021	6.3	<5	not visible	EPL compliant
21/05/2021	22/06/2021	23/06/2021	5.7	<5	not visible	EPL compliant
24/05/2021	22/06/2021	23/06/2021	7.2	<5	not visible	EPL compliant
25/05/2021	22/06/2021	23/06/2021	8.2	<5	not visible	EPL compliant
27/05/2021	22/06/2021	23/06/2021	8.1	<5	not visible	EPL compliant
3/06/2021	23/07/2021	26/07/2021	7.5	<5	not visible	EPL compliant
4/06/2021	23/07/2021	26/07/2021	7.0	<5	not visible	EPL compliant
5/06/2021	23/07/2021	26/07/2021	7.4	28	not visible	EPL compliant
9/06/2021	23/07/2021	26/07/2021	6.1	11	not visible	EPL compliant
10/06/2021	23/07/2021	26/07/2021	6.9	12	not visible	EPL compliant
11/06/2021	23/07/2021	26/07/2021	7.6	8	not visible	EPL compliant
15/06/2021	23/07/2021	26/07/2021	8.0	6	not visible	EPL compliant
14/06/2021	23/07/2021	26/07/2021	7.8	<5	not visible	EPL compliant
17/06/2021	23/07/2021	26/07/2021	7.8	5	not visible	EPL compliant
18/06/2021	23/07/2021	26/07/2021	6.5	6	not visible	EPL compliant
19/06/2021	23/07/2021	26/07/2021	6.8	7	not visible	EPL compliant
21/06/2021	23/07/2021	26/07/2021	7.5	<5	not visible	EPL compliant
23/06/2021	23/07/2021	26/07/2021	8.3	10	not visible	EPL compliant
24/06/2021	23/07/2021	26/07/2021	7.0	<5	not visible	EPL compliant
25/06/2021	23/07/2021	26/07/2021	7.9	<5	not visible	EPL compliant
26/06/2021	23/07/2021	26/07/2021	7.8	5	not visible	EPL compliant
27/06/2021	23/07/2021	26/07/2021	7.9	5	not visible	EPL compliant
28/06/2021	23/07/2021	26/07/2021	7.3	<5	not visible	EPL compliant
29/06/2021	23/07/2021	26/07/2021	7.8	8	not visible	EPL compliant
30/06/2021	23/07/2021	26/07/2021	7.7	8	not visible	EPL compliant

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2021 PKCT Sedimentation Pond Overflows - EPL 1625

Ponds location/names: TS1 pond: DP22, Central Pond: DP23, Tower 3 pond: DP24, South Pond: DP25, Workshop Pond DP26, Berth 102 DP27.

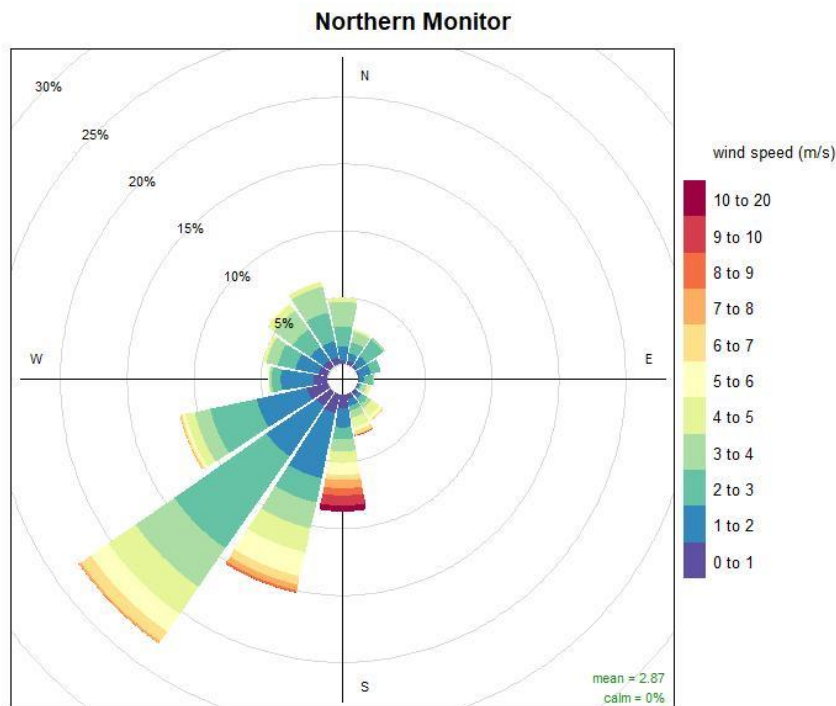
Sample Location	Sample Date	Date Results Obtained	Date Results Published	pH (pH units) Criteria: Monitoring only	Total Suspended Solids (milligrams per litre) Criteria: Monitoring only	Oil/ Grease (milligrams per litre) Criteria: Monitoring only	Commentary on Results
No overflows from any satellite ponds in January 2021							
No overflows from any satellite ponds in February 2021							
DP24 - Tower 3 Pond	21/03/2021	29/03/2021	4/05/2021	8.24	4650	<5	Overflow of Tower 3 Pond occurred during a short duration heavy downpour (9mm in less than an hour) within a week long significant rain event (148mm over seven days). During a downpour on the 21st, the Tower 3 pump tripped out as a result of water ingress and was reset and running within minutes. The pump being reset during the rainfall event had no bearing on the overflow occurring as the inflow reporting to the pond during the downpour exceeded the designed storage capacity of the pond. Overflow occurred as per the design and operational philosophy of the system. Pond sediment levels were below the required 20%. Discharge of Tower 3 pond during this rain event is considered to be permitted under PKCT's licence conditions and the design and operational philosophy of the contaminated water system.
DP23 - Central Pond	23/03/2021	29/03/2021	4/05/2021	7.44	126	<5	Overflow of Central Pond occurred after a week-long rain event in March where 162mm of rain fell across an 11 day period, 121.4mm over the immediate four days leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
No overflows from any satellite ponds in April 2021							
No overflows from any satellite ponds in May 2021							
No overflows from any satellite ponds in June 2021							
No overflows from any satellite ponds in July 2021							
No overflows from any satellite ponds in August 2021							

PKCT Water Collection System Discharge Points



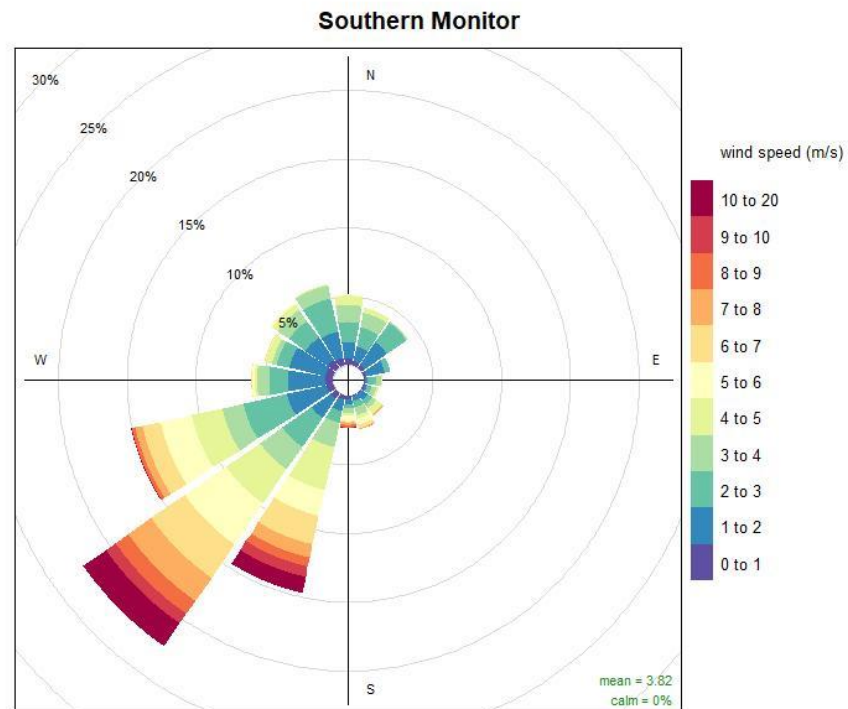
Wind Roses – Aug 2021

North Wind Rose



Frequency of counts by wind direction (%)

South Wind Rose



Frequency of counts by wind direction (%)

RAINFALL (PKCT site gauge)



PORT KEMBLA COAL TERMINAL LTD.



Jul.21 Total 24.6 mm

Aug 2021 Daily Rainfall

Aug.21 Total 35.4 mm

