



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 2023																Annual average: grams per square metre.month	
Monthly Analysis			Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	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													0	0.0	#DIV/0!	0.0		
	25m South	Ash													0	0.0	#DIV/0!	0.0		
	BPB Coal Berth	Combustible Matter													0	0.0	#DIV/0!	0.0		
2	P2	Insoluble Solids													0	0.0	#DIV/0!	0.0		
	40m South of BPB Stockyard	Ash													0	0.0	#DIV/0!	0.0		
		Combustible Matter													0	0.0	#DIV/0!	0.0		
3	P3	Insoluble Solids	8.4	9.7	6.4	7.6	17.0	48.9	21.6	10.1	12.7	18.7	3.9	5.6	12	3.9	14.2	48.9	14.2	15.0
	40m East of BPB Stockyard	Ash	5.9	7.0	4.9	5.6	13.1	41.7	17.7	7.9	9.8	14.9	2.9	4.1	12	2.9	11.3	41.7		
		Combustible Matter	2.5	2.7	1.5	2.0	3.9	7.2	3.9	2.2	2.8	3.8	1.0	1.5	12	1.0	2.9	7.2	2.9	12.0
4	P4	Insoluble Solids	3.1	3.3	3.8	5.3	4.3	4.3	5.5	4.5	3.6	4.1	1.9	3.2	12	1.9	3.9	5.5	3.9	15.0
	40m East Coal Berth Stockyard	Ash	1.5	1.8	1.9	2.3	1.9	1.5	3.2	2.5	1.6	1.7	1.1	1.8	12	1.1	1.9	3.2		
		Combustible Matter	1.6	1.5	1.9	3.0	2.4	2.8	2.3	2.0	2.0	2.4	0.8	1.4	12	0.8	2.0	3.0	2.0	12.0
5	P5	Insoluble Solids	4.8	7.6	5.2	3.7	5.3	2.2	3.9	4.6	8.5	6.4	4.8	13.1	12	2.2	5.8	13.1	5.8	15.0
	Northern Pond (No.1)	Ash	1.5	2.4	1.6	1.2	1.9	0.6	1.7	2.0	4.5	2.7	1.6	6.6	12	0.6	2.4	6.6		
		Combustible Matter	3.3	5.2	3.6	2.5	3.4	1.6	2.2	2.6	4.0	3.7	3.2	6.5	12	1.6	3.5	6.5	3.5	12.0
6	P6	Insoluble Solids	7.5	7.3	5.2	6.4	5.3	3.8	7.4	2.3	6.8	4.4	4.1	3.7	12	2.3	5.4	7.5	5.4	15.0
	40m West Coal Berth Stockyard	Ash	2.8	2.8	2.3	2.9	2.7	1.8	3.7	1.1	2.7	2.8	1.9	2.2	12	1.1	2.5	3.7		
		Combustible Matter	4.7	2.2	2.9	3.5	2.6	2.0	3.7	1.2	4.1	1.6	2.2	1.5	12	1.2	2.7	4.7	2.7	12.0
7	P7	Insoluble Solids	5.3	3.8	0.7	1.9	3.3	12.1	2.5	1.7	3.5	1.8	1.3	2.1	12	0.7	3.3	12.1	3.3	15.0
	260m West No.2 Coalberth	Ash	2.1	1.6	0.3	1.1	1.6	11.0	1.4	0.9	1.4	1.2	0.9	1.3	12	0.3	2.1	11.0		
		Combustible Matter	3.2	2.2	0.4	0.8	1.7	1.1	1.1	0.8	2.1	0.6	0.4	0.8	12	0.4	1.3	3.2	1.3	12.0
8	P8	Insoluble Solids	7.6	5.7	4.6	4.9	9.4	16.1	14.2	8.0	4.4	6.4	2.0	4.5	12	2.0	7.3	16.1	7.3	15.0
	PKCT North Truckwash	Ash	2.1	1.8	1.2	1.8	2.0	3.3	3.1	2.2	1.4	2.3	0.9	1.3	12	0.9	2.0	3.3		
		Combustible Matter	5.5	3.9	3.4	3.1	7.4	12.8	11.1	5.8	3.0	4.1	1.1	3.2	12	1.1	5.4	12.8	5.4	12.0
9	P9	Insoluble Solids	3.8	4.3	2.5	2.4	3.7	2.3	3.8	3.1	2.0	2.3	1.7	2.4	12	1.7	2.9	4.3	2.9	6.0
	Wollongong	Ash	1.6	1.9	1.0	1.2	1.6	1.1	1.5	1.3	0.9	1.5	0.8	1.1	12	0.8	1.3	1.9		
	Wastewater TP.	Combustible Matter	2.2	2.4	1.5	1.2	2.1	1.2	2.3	1.8	1.1	0.8	0.9	1.3	12	0.8	1.6	2.4	1.6	4.0
15	P10	Insoluble Solids	7.0	8.1	5.4	9.3	11.2	10.0	8.2	8.4	7.9	10.7	4.2	5.7	12	4.2	8.0	11.2	8.0	15.0
	North of PKCT Planning Office	Ash	2.8	32.0	2.5	4.4	4.8	4.7	4.7	4.4	3.8	5.6	2.2	2.5	12	2.2	6.2	32.0		
		Combustible Matter	4.2	2.4	2.9	4.9	6.4	5.3	3.5	4.0	4.1	5.1	2.0	3.2	12	2.0	4.0	6.4	4.0	12.0
17	P11	Insoluble Solids	4.3	2.7	4.1	4.6	4.7	4.2	4.6	3.5	4.2	5.9	3.1	4.4	12	2.7	4.2	5.9	4.2	6.0
	Entry Gate BlueScope	Ash	3.1	1.8	3.1	3.5	3.7	3.2	3.4	2.7	3.2	4.5	2.6	3.5	12	1.8	3.2	4.5		
	RO.RO Berth (109)	Combustible Matter	1.2	0.9	1.0	1.1	1.0	1.0	1.2	0.8	1.0	1.4	0.5	0.9	12	0.5	1.0	1.4	1.0	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 2023	9/01/2023	28/02/2023	28/02/2023	P3 results high due to outliers from 21-11-22 extreme wind event. SW winds exceeding 90 km/hr. SW winds unlikely to project coal dust towards P3 sensor
February 2023	9/03/2023	23/03/2023	24/03/2023	P3 results high due to location adjacent to A/E construction site.
March 2023	6/04/2023	27/04/2023	28/04/2023	P3 results high due to location adjacent to A/E construction site.
April 2023	5/05/2023	22/05/2023	22/05/2023	P3 monthly results are low, however 12 month rolling average remains above assessment criteria due to elevated results in June 2022. June 22 analysis showed that only small proportion of dust was coal.
May 2023	5/06/2023	23/06/2023	23/06/2023	P3 results high due to location adjacent to A/E construction site. 70% of sample confirmed to be impurities other than coal.
June 2023	7/07/2023	21/07/2023	25/07/2023	All results within assessment criteria
July 2023	7/08/2023	28/08/2023	28/08/2023	P3 slightly outside 12 month rolling average criteria. Analysis identified that > 70% of sample is non-coal dust. Elevated dust at this location due to localised construction on adjacent property
August 2023	7/09/2023	26/09/2023	26/09/2023	P3 slightly outside 12 month rolling average criteria.
September 2023	9/10/2023	30/10/2023	30/10/2023	P3 slightly outside 12 month rolling average criteria.
October 2023	7/11/2023	29/11/2023	30/11/2023	P3 slightly outside 12 month rolling average criteria.
November 2023	7/12/2023	22/12/2023	27/12/2023	All results within assessment criteria
December 2023	8/01/2024	25/01/2024	25/01/2024	All results within assessment criteria



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EPL MONITORING SITES- RESIDENTIAL			Calendar Year 2023												Monthly Analysis				annual average: grams per square metre.month	
MONTH			Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23					rolling 12 month average	PKCT assessment criteria
EPL No.	Location Gauge Number	Analysis: grams/square metre.month													No. samples collected	MIN	MEAN	MAX		
12	R1	Insoluble Solids	1.1	0.7	1.4	0.8	0.5	0.4	0.6	0.5	0.8	1.0	0.4	1.2	12	0.4	0.8	1.4	0.8	4.0
	157 Church St	Ash	0.7	0.5	0.5	0.5	0.2	0.2	0.3	0.4	0.4	0.5	0.3	0.7	12	0.2	0.4	0.7		
	Wollongong	Combustible Matter	0.4	0.2	0.9	0.3	0.3	0.2	0.3	0.1	0.4	0.5	0.1	0.5	12	0.1	0.4	0.9	0.4	2.0
19	R2	Insoluble Solids	2.0	1.0	0.8	0.4	0.3	0.3	0.4	0.5	0.9	1.3	0.6	2.4	12	0.3	0.9	2.4	0.9	4.0
	Vikings Oval	Ash	1.1	0.4	0.3	0.2	0.2	0.1	0.2	0.3	0.5	0.8	0.4	1.5	12	0.1	0.5	1.5		
	Wollongong	Combustible Matter	0.9	0.6	0.5	0.2	0.1	0.2	0.2	0.2	0.4	0.5	0.2	0.9	12	0.1	0.4	0.9	0.4	2.0
TBA	R3	Insoluble Solids	3.2	1.9	1.1	0.8	1.5	0.7	1.7	0.9	2.6	3.2	2.8	2.5	12	0.7	1.9	3.2	1.9	4.0
	Ross Street	Ash	1.9	1.1	0.6	0.6	0.9	0.5	0.9	0.6	1.0	1.6	1.6	0.8	12	0.5	1.0	1.9		
	Wollongong	Combustible Matter	1.3	0.8	0.5	0.2	0.6	0.2	0.8	0.3	1.6	1.6	1.2	1.7	12	0.2	0.9	1.7	0.9	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 2023	9/01/2023	28/02/2023	28/02/2023	All sites within assessment criteria except R3 at 2.7 (12 month average). Site "R3" had very high levels (95%) of polysaccharide slime and vegetation matter causing the higher than normal measurement in the gauge, there have been several (5) similar results across the 12 month period causing the average to be high. Polysaccharide slime is associated with organic matter.																
February 2023	9/03/2023	23/03/2023	24/03/2023	All sites within assessment criteria																
March 2023	6/04/2023	27/04/2023	28/04/2023	All sites within assessment criteria																
April 2023	5/05/2023	22/05/2023	22/05/2023	All sites within assessment criteria																
May 2023	6/05/2023	23/06/2023	23/06/2023	All sites within assessment criteria																
June 2023	7/07/2023	21/07/2023	25/07/2023	All sites within assessment criteria																
July 2023	7/08/2023	28/08/2023	28/08/2023	All sites within assessment criteria																
August 2023	7/09/2023	26/09/2023	26/09/2023	All sites within assessment criteria																
September 2023	9/10/2023	30/10/2023	30/10/2023	All sites within assessment criteria																
October 2023	7/11/2023	29/11/2023	30/11/2023	All sites within assessment criteria																
November 2023	7/12/2023	22/12/2023	27/12/2023	All sites within assessment criteria																
December 2023	8/01/2023	25/01/2024	25/01/2024	All sites within assessment criteria																

[illegible]



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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
01-02-23	23-03-23	24-03-23	7.7	<5	<5	EPL Compliant
02-02-23	23-03-23	24-03-23	7.2	<5	<5	EPL Compliant
03-02-23	23-03-23	24-03-23	7.6	<5	<5	EPL Compliant
09-02-23	23-03-23	24-03-23	7.6	<5	<5	EPL Compliant
10-02-23	23-03-23	24-03-23	7.0	8	<5	EPL Compliant
11-02-23	23-03-23	24-03-23	7.1	6	<5	EPL Compliant
12-02-23	23-03-23	24-03-23	7.3	<5	<5	EPL Compliant
13-02-23	23-03-23	24-03-23	7.5	<5	<5	EPL Compliant
14-02-23	23-03-23	24-03-23	7.9	<5	<5	EPL Compliant
15-02-23	23-03-23	24-03-23	7.4	<5	<5	EPL Compliant
16-02-23	23-03-23	24-03-23	8.1	<5	<5	EPL Compliant
17-02-23	23-03-23	24-03-23	7.7	8	<5	EPL Compliant
18-02-23	23-03-23	24-03-23	7.6	<5	<5	EPL Compliant
19-02-23	23-03-23	24-03-23	7.7	<5	<5	EPL Compliant
21-02-23	23-03-23	24-03-23	7.5	8	<5	EPL Compliant
22-02-23	23-03-23	24-03-23	7.8	12	<5	EPL Compliant
23-02-23	23-03-23	24-03-23	7.7	9	<5	EPL Compliant
24-02-23	23-03-23	24-03-23	7.3	7	<5	EPL Compliant
13-03-23	27-04-23	28-04-23	8.1	9	<5	EPL Compliant
14-03-23	27-04-23	28-04-23	7.8	26	<5	EPL Compliant
15-03-23	27-04-23	28-04-23	7.3	11	<5	EPL Compliant
16-03-23	27-04-23	28-04-23	7.2	<5	<5	EPL Compliant
25-03-23	27-04-23	28-04-23	7.2	6	<5	EPL Compliant
26-03-23	27-04-23	28-04-23	7.1	8	<5	EPL Compliant
27-03-23	27-04-23	28-04-23	7.0	5	<5	EPL Compliant
30-03-23	27-04-23	28-04-23	7.5	6	<5	EPL Compliant

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
4/3/2023	5/22/2023	5/22/2023	8.3	6	<5	EPL Compliant
4/3/2023	5/22/2023	5/22/2023	8.1	5	<5	EPL Compliant
4/14/2023	5/22/2023	5/22/2023	8.1	11	<5	EPL Compliant
4/20/2023	5/22/2023	5/22/2023	7.2	<5	<5	EPL Compliant
4/21/2023	5/22/2023	5/22/2023	7.9	<5	<5	EPL Compliant
4/30/2023	5/22/2023	5/22/2023	7.8	<5	<5	EPL Compliant
5/1/2023	6/23/2023	6/23/2023	7.9	<5	<5	EPL Compliant
5/2/2023	6/23/2023	6/23/2023	7.7	8	<5	EPL Compliant
5/11/2023	6/23/2023	6/23/2023	7.4	5	<5	EPL Compliant
5/14/2023	6/23/2023	6/23/2023	7.3	<5	<5	EPL Compliant
5/15/2023	6/23/2023	6/23/2023	7.7	<5	<5	EPL Compliant
5/16/2023	6/23/2023	6/23/2023	8.3	8	<5	EPL Compliant
5/17/2023	6/23/2023	6/23/2023	8.1	8	<5	EPL Compliant
5/21/2023	6/23/2023	6/23/2023	8.2	9	<5	EPL Compliant
5/24/2023	6/23/2023	6/23/2023	8.0	6	<5	EPL Compliant
5/25/2023	6/23/2023	6/23/2023	7.2	<5	<5	EPL Compliant
5/26/2023	6/23/2023	6/23/2023	8.1	<5	<5	EPL Compliant
6/23/2023	7/21/2023	7/25/2023	7.47	9	<5	EPL Compliant
6/29/2023	7/21/2023	7/25/2023	8.1	9	<5	EPL Compliant
6/30/2023	7/21/2023	7/25/2023	8.2	8	<5	EPL Compliant
7/4/2023	8/28/2023	8/28/2023	7.6	15	<5	EPL Compliant
7/5/2023	8/28/2023	8/28/2023	8.2	16	<5	EPL Compliant
7/7/2023	8/28/2023	8/28/2023	7.7	10	<5	EPL Compliant
7/9/2023	8/28/2023	8/28/2023	8.3	7	<5	EPL Compliant
7/14/2023	8/28/2023	8/28/2023	8.2	15	<5	EPL Compliant
7/17/2023	8/28/2023	8/28/2023	8.0	22	<5	EPL Compliant
7/18/2023	8/28/2023	8/28/2023	8.1	18	<5	EPL Compliant
7/20/2023	8/28/2023	8/28/2023	7.8	12	<5	EPL Compliant
7/21/2023	8/28/2023	8/28/2023	8.5	13	<5	EPL Compliant
7/24/2023	8/28/2023	8/28/2023	8.3	12	<5	EPL Compliant
7/25/2023	8/28/2023	8/28/2023	8.1	11	<5	EPL Compliant
7/26/2023	8/28/2023	8/28/2023	8.6	16	<5	EPL Compliant
7/28/2023	8/28/2023	8/28/2023	9.0	15	<5	EPL Compliant
7/29/2023	8/28/2023	8/28/2023	7.3	8	<5	EPL Compliant

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)	Commentary on Results
			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
8/2/2023	9/26/2023	9/26/2023	7.7	15	<5	EPL Compliant
8/3/2023	9/26/2023	9/26/2023	7.9	8	<5	EPL Compliant
8/4/2023	9/26/2023	9/26/2023	8.8	8	<5	EPL Compliant
8/5/2023	9/26/2023	9/26/2023	9.1	10	<5	EPL Compliant
8/6/2023	9/26/2023	9/26/2023	8.7	14	<5	EPL Compliant
8/7/2023	9/26/2023	9/26/2023	8.8	6	<5	EPL Compliant
8/8/2023	9/26/2023	9/26/2023	8.7	9	<5	EPL Compliant
8/9/2023	9/26/2023	9/26/2023	7.9	<5	<5	EPL Compliant
8/10/2023	9/26/2023	9/26/2023	8.1	9	<5	EPL Compliant
8/11/2023	9/26/2023	9/26/2023	8.7	9	<5	EPL Compliant
8/14/2023	9/26/2023	9/26/2023	8.5	10	<5	EPL Compliant
8/15/2023	9/26/2023	9/26/2023	7.3	6	<5	EPL Compliant
8/16/2023	9/26/2023	9/26/2023	7.5	10	<5	EPL Compliant
8/17/2023	9/26/2023	9/26/2023	7.2	8	<5	EPL Compliant
8/18/2023	9/26/2023	9/26/2023	7.0	<5	<5	EPL Compliant
8/19/2023	9/26/2023	9/26/2023	7.5	<5	<5	EPL Compliant
8/20/2023	9/26/2023	9/26/2023	7.9	<5	<5	EPL Compliant
8/21/2023	9/26/2023	9/26/2023	7.4	5	<5	EPL Compliant
8/22/2023	9/26/2023	9/26/2023	7.6	<5	<5	EPL Compliant
8/23/2023	9/26/2023	9/26/2023	7.5	<5	<5	EPL Compliant
8/24/2023	9/26/2023	9/26/2023	8.1	<5	<5	EPL Compliant
8/25/2023	9/26/2023	9/26/2023	8.2	6	<5	EPL Compliant
8/26/2023	9/26/2023	9/26/2023	8.4	<5	<5	EPL Compliant
8/27/2023	9/26/2023	9/26/2023	9.0	<5	<5	EPL Compliant
8/28/2023	9/26/2023	9/26/2023	9.3	<5	<5	EPL Compliant
8/29/2023	9/26/2023	9/26/2023	9.1	8	<5	EPL Compliant
8/30/2023	9/26/2023	9/26/2023	9.5	16	<5	EPL Compliant
8/31/2023	9/26/2023	9/26/2023	9.6	9	<5	EPL Compliant
9/1/2023	10/30/2023	10/30/2023	8.8	17	<5	EPL Compliant
9/2/2023	10/30/2023	10/30/2023	9.0	14	<5	EPL Compliant
9/3/2023	10/30/2023	10/30/2023	9.6	17	<5	EPL Compliant
9/4/2023	10/30/2023	10/30/2023	9.5	16	<5	EPL Compliant
9/5/2023	10/30/2023	10/30/2023	9.8	20	<5	EPL Compliant
9/6/2023	10/30/2023	10/30/2023	9.5	20	<5	EPL Compliant

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.



PORT KEMBLA COAL TERMINAL LTD.



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
7/09/2023	30/10/2023	30/10/2023	9.72	17	<5	EPL Compliant
8/09/2023	30/10/2023	30/10/2023	9.97	20	<5	EPL Compliant
9/09/2023	30/10/2023	30/10/2023	9.59	24	<5	EPL Compliant
10/09/2023	30/10/2023	30/10/2023	9.73	26	<5	EPL Compliant
11/09/2023	30/10/2023	30/10/2023	10.30	32	<5	EPL Compliant
12/09/2023	30/10/2023	30/10/2023	9.51	32	<5	EPL Compliant
13/09/2023	30/10/2023	30/10/2023	9.45	26	<5	EPL Compliant
14/09/2023	30/10/2023	30/10/2023	9.65	28	<5	EPL Compliant
22/09/2023	30/10/2023	30/10/2023	9.04	7	<5	EPL Compliant
23/09/2023	30/10/2023	30/10/2023	8.36	<5	<5	EPL Compliant
24/09/2023	30/10/2023	30/10/2023	7.95	9	<5	EPL Compliant
28/09/2023	30/10/2023	30/10/2023	8.4	14	<5	EPL Compliant
29/09/2023	30/10/2023	30/10/2023	8.6	8	<5	EPL Compliant
30/09/2023	30/10/2023	30/10/2023	8.3	10	<5	EPL Compliant
5/10/2023	29/11/2023	30/11/2023	7.9	18	<5	EPL Compliant
6/10/2023	29/11/2023	30/11/2023	8.5	<5	<5	EPL Compliant
18/10/2023	29/11/2023	30/11/2023	7.4	<5	<5	EPL Compliant
19/10/2023	29/11/2023	30/11/2023	8.0	<5	<5	EPL Compliant
20/10/2023	29/11/2023	30/11/2023	8.3	6	<5	EPL Compliant
28/10/2023	29/11/2023	30/11/2023	7.6	6	<5	EPL Compliant
29/10/2023	29/11/2023	30/11/2023	7.7	<5	<5	EPL Compliant
4/11/2023	22/12/2023	27/12/2023	7.6	16	<5	EPL Compliant
5/11/2023	22/12/2023	27/12/2023	7.6	<5	<5	EPL Compliant
6/11/2023	22/12/2023	27/12/2023	7.5	<5	<5	EPL Compliant
7/11/2023	22/12/2023	27/12/2023	7.3	<5	<5	EPL Compliant
8/11/2023	22/12/2023	27/12/2023	7.6	<5	<5	EPL Compliant
9/11/2023	22/12/2023	27/12/2023	6.5	<5	<5	EPL Compliant
10/11/2023	22/12/2023	27/12/2023	6.7	<5	<5	EPL Compliant
11/11/2023	22/12/2023	27/12/2023	7.5	<5	<5	EPL Compliant
14/11/2023	22/12/2023	27/12/2023	7.6	6	<5	EPL Compliant
15/11/2023	22/12/2023	27/12/2023	8.6	<5	<5	EPL Compliant
24/11/2023	22/12/2023	27/12/2023	7.7	<5	<5	EPL Compliant
25/11/2023	22/12/2023	27/12/2023	7.5	<5	<5	EPL Compliant
26/11/2023	22/12/2023	27/12/2023	7.9	22	<5	EPL Compliant
27/11/2023	22/12/2023	27/12/2023	8.3	<5	<5	EPL Compliant
29/11/2023	22/12/2023	27/12/2023	8.1	6	<5	EPL Compliant
30/11/2023	22/12/2023	27/12/2023	7.4	<5	<5	EPL Compliant

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.



PORT KEMBLA COAL TERMINAL LTD.



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)	Commentary on Results
			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
1/12/2023	25/01/2024	25/01/2024	7.26	8	<5	EPL Compliant
2/12/2023	25/01/2024	25/01/2024	7.63	<5	<5	EPL Compliant
4/12/2023	25/01/2024	25/01/2024	7.37	<5	<5	EPL Compliant
5/12/2023	25/01/2024	25/01/2024	7.26	<5	<5	EPL Compliant
6/12/2023	25/01/2024	25/01/2024	8.65	8	<5	EPL Compliant
7/12/2023	25/01/2024	25/01/2024	7.66	24	<5	EPL Compliant
8/12/2023	25/01/2024	25/01/2024	8.66	6	<5	EPL Compliant
9/12/2023	25/01/2024	25/01/2024	8.88	5	<5	EPL Compliant
10/12/2023	25/01/2024	25/01/2024	8.65	10	<5	EPL Compliant
11/12/2023	25/01/2024	25/01/2024	8.44	<5	<5	EPL Compliant
12/12/2023	25/01/2024	25/01/2024	7.85	<5	<5	EPL Compliant
13/12/2023	25/01/2024	25/01/2024	8.4	7	<5	EPL Compliant
14/12/2023	25/01/2024	25/01/2024	8.5	<5	<5	EPL Compliant
15/12/2023	25/01/2024	25/01/2024	8.2	<5	<5	EPL Compliant
16/12/2023	25/01/2024	25/01/2024	8.1	<5	<5	EPL Compliant
17/12/2023	25/01/2024	25/01/2024	7.9	<5	<5	EPL Compliant
18/12/2023	25/01/2024	25/01/2024	7.6	<5	<5	EPL Compliant
19/12/2023	25/01/2024	25/01/2024	8.0	<5	<5	EPL Compliant
20/12/2023	25/01/2024	25/01/2024	7.9	12	<5	EPL Compliant - Initial Oil and greas results from lab were 38mg/L which was abnormally high. Re-test of spare sample taken at same time returned result of <5mg/L which is typical of regular results. Cause of spike is unknown, howver it is likley a lab issue.
21/12/2023	25/01/2024	25/01/2024	7.8	<5	<5	EPL Compliant
22/12/2023	25/01/2024	25/01/2024	7.9	<5	<5	EPL Compliant
23/12/2023	25/01/2024	25/01/2024	8.1	<5	<5	EPL Compliant
24/12/2023	25/01/2024	25/01/2024	8.2	6	<5	EPL Compliant
25/12/2023	25/01/2024	25/01/2024	7.1	10	<5	EPL Compliant
26/12/2023	25/01/2024	25/01/2024	7.8	<5	<5	EPL Compliant
27/12/2023	25/01/2024	25/01/2024	7.6	6	<5	EPL Compliant
28/12/2023	25/01/2024	25/01/2024	7.9	5	<5	EPL Compliant
29/12/2023	25/01/2024	25/01/2024	8.2	<5	<5	EPL Compliant
30/12/2023	25/01/2024	25/01/2024	8.2	<5	<5	EPL Compliant
31/12/2023	25/01/2024	25/01/2024	8.3	<5	<5	EPL Compliant

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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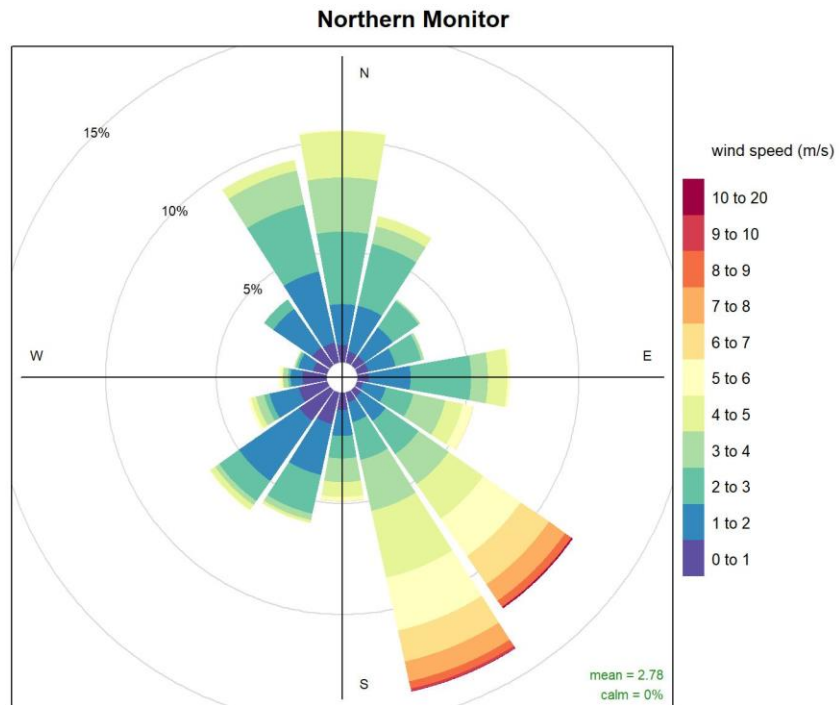
2023 PKCT Sedimentation Pond Overflows - EPL 1625							
Ponds location/names: TS1 pond: DP22, Central Pond: DP23, Tower 3 pond: DP24, South Pond: DP25, Workshop Pond DP26, Berth 102 DP27.							
Sample Location	Sample Date	Date Results Obtained	Date Results Published	pH (pH units) Criteria: Monitoring 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 2023							
DP26 - Workshop Pond	9/02/2023	23/03/2023	24/03/2023	6.65	<5	not visible	Overflow of Workshop Pond occurred after a heavy rain period (27.2mm) in an hour 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.
DP22 - TS1 Pond	9/02/2023	23/03/2023	24/03/2023	7.29	114	not visible	Overflow of TS1 Pond occurred after a heavy rain period (27.2mm) in an hour 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.
DP26 - Workshop Pond	14/03/2023	27/04/2023	28/04/2023	6.71	35	not visible	Overflow of Workshop Pond occurred after a heavy rain period (35.6mm) in an hour 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 2023							
No overflows from any satellite ponds in May 2023							
No overflows from any satellite ponds in June 2023							
No overflows from any satellite ponds in July 2023							
No overflows from any satellite ponds in August 2023							
No overflows from any satellite ponds in September 2023							
No overflows from any satellite ponds in October 2023							
DP23 - Central Pond	5/11/2023	13/11/2023	27/12/2023	7.48	550	not visible	Overflow of Central Pond occurred after a heavy rain period (29.6mm) in an hour 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.
DP26 - Workshop Pond	5/11/2023	13/11/2023	27/12/2023	7.43	<5	not visible	Overflow of Workshop Pond occurred after a heavy rain period (29.6mm) in an hour 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.
DP22 - TS1 Pond	5/11/2023	13/11/2023	27/12/2023	7.43	241	not visible	Overflow of TS1 Pond occurred after a heavy rain period (29.6mm) in an hour 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.
DP26 - Workshop Pond	29/11/2023	6/12/2023	27/12/2023	7.75	11	not visible	Overflow of Workshop Pond occurred after a heavy rain period (16.2mm) in an hour 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.
DP26 - Workshop Pond	24/12/2023	25/01/2024	25/01/2024	6.91	20	not visible	Overflow of Workshop Pond occurred after a heavy rain period (25.6mm) in an hour 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.

PKCT Water Collection System Discharge Points



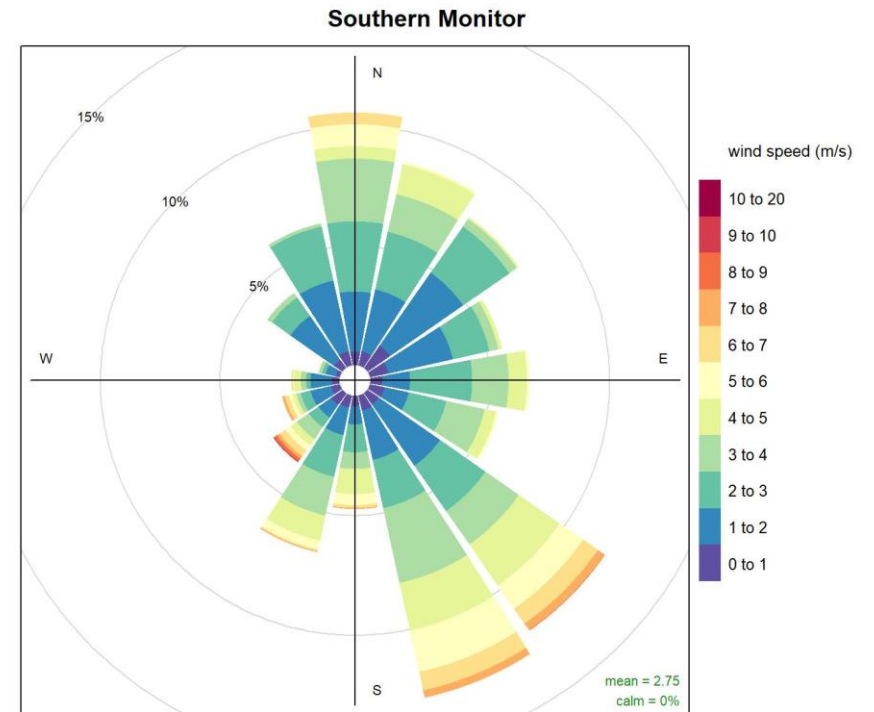
Wind Roses – December 2023

North Wind Rose



Frequency of counts by wind direction (%)

South Wind Rose



Frequency of counts by wind direction (%)



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RAINFALL (PKCT site gauge)

