





Licencee:	Port Kembla Coal Terminal Limited
Environment Protection Licence:	1625
Licence URL:	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30847&SYSUID=1&LICID=1625
Location:	Port Kembla Road, Port Kembla Inner Harbour, Wollongong
Postal Address:	PO Box 823, Wollongong East 2502





PORT KEMBLA COAL TERMINAL DUST & WEATHER MONITOR LOCATIONS

30th October 2012



EPL No.	PKCT No.	Dust Monitor Location Description						
1	P1	25m south of Bulk Products Berth (BPB)						
2	P2	40m south of Bulk Products Berth stockyard						
3	P3	40m east of Bulk Products Berth stockyar						
4	P4	40m east Coal Berth stockyard						
5	P5	Northern Pond (Pond No.1)						
6	P6	40m west Coal Berth stockyard						
7	P7	250m west of Coal Berth stockyard						
8	P8	PKCT north truckwash						
9	P9	Wollongong Wastewater Treatment Plant						
15	P10	North of PKCT Planning Office						
17	P11	Entry Gate to BlueScope Ro Ro (Berth 109)						
12	R1	157 Church Street (two gauges)						
19	R2	Vikings Oval, Wollongong (two gauges)						
TBA	R3	Linkside Apartments, Ross Street						
	C1	Continuous Dust Monitor 1						
	C2	Continuous Dust Monitor 2						

refer PKCT Environment Protection Licence(EPL) No. 1625 (EPA ID No.) Dust Gauges- Environment Protection Licence monitoring sites Sites denoted "P": industrial; "R": residential

- Continuous Dust Monitor Sites- additional
 - (a) BlueScope High Volume Sampler & dust gauge(b) PKCT EPL Monitoring Site R2 (2 gauges)Weather stations

(a) at each continuous dust monitor site (b) PKCT Main Control Room O





EPL	MONITORING SI	Calender Year 2012																		
MONTH				FEB	MAR	APB	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC						e: grams per square re.month
EPL No.	Location Gauge Number	analysis: grams/square metres.month	grams/square											Samples collected M		MIN MEAN MAX		rolling 12 month average	PKCT assessment criteria	
1	P1	Insoluble Solids	9.8	5.2	2.3	4.5	5.6	5.4	3.0	2.6	4.6	3.0	5.0	3.8	12	2.3	4.6	9.8	4.6	15.0
	25m South	Ash	5.3	3.1	1.1	2.2	4.0	3.6	2.0	1.1	2.8	1.8	1.9	1.2	12	1.1	2.5	5.3		
_	BPB Coal Berth	Combustible Matter	4.5	2.1	1.2	2.3	1.6	1.8	1.0	1.5	1.8	1.2	3.1	2.6	12	1.0	2.1	4.5	2.1	12.0
2	P2	Insoluble Solids	7.0	3.4	1.3	4.7	5.2	5.2	2.7	4.9	5.7	6.0	5.8	3.9	12	1.3	4.7	7.0	4.7	15.0
	40m South of	Ash	4.1	1.9	0.5	2.4	3.6	3.3	1.6	2.3	3.0	4.4	2.7	1.5	12	0.5	2.6	4.4		40.0
3	BPB Stockyard P3	Combustible Matter	2.9 7.1	1.5 7.6	0.8 4.0	2.3 7.2	1.6 23.7	1.9 0.3	1.1	2.6 7.1	2.7 20.3	1.6 8.6	3.1 9.8	2.4 32.7	12 12	0.8	2.0 11.5	3.1 32.7	2.0	12.0 15.0
3	P3 40m East of	Insoluble Solids Ash	2.8	7.6 5.8	4.0	4.9	23.7	0.3	4.7	2.4	20.3	3.2	9.8	32.7	12	0.3	6.1	32.7	11.5	15.0
	BPB Stockyard	Combustible Matter	4.3	1.8	1.3	2.3	9.6	0.2	5.4	4.7	10.3	5.4	5.7 4.1	16.0	12	0.2	5.4	16.0	5.4	12.0
4	P4	Insoluble Solids	11.2	5.1	3.9	6.3	BM	20.7	8.6	24.4	27.9	8.0	13.9	9.1	12	3.9	12.6	27.9	12.6	15.0
	40m East Coal Berth	Ash	3.1	2.1	1.4	2.1	BM	4.9	3.0	6.5	7.2	2.3	3.8	4.5	11	1.4	3.7	7.2	12.0	10.0
	Stockvard	Combustible Matter	8.1	3.0	2.5	4.2	BM	15.8	5.6	17.9	20.7	5.7	10.1	4.6	11	2.5	8.9	20.7	8.9	12.0
5	P5	Insoluble Solids	11.3	4.1	6.8	7.2	4.8	9.3	5.8	10.6	6.1	8.3	8.2	10.9	12	4.1	7.8	11.3	7.8	15.0
-	Northern Pond	Ash	3.0	1.7	4.5	2.5	2.1	3.5	2.6	3.7	2.6	3.1	3.9	3.7	12	1.7	3.1	4.5		
	(No.1)	Combustible Matter	8.3	2.4	2.3	4.7	2.7	5.8	3.2	6.9	3.5	5.2	4.3	7.2	12	2.3	4.7	8.3	4.7	12.0
6	P6	Insoluble Solids	13.5	BB	5.7	7.6	5.0	6.8	4.4	5.2	7.4	6.4	7.3	4.0	11	4.0	6.7	13.5	6.7	15.0
	40m West Coal Berth	Ash	3.0	BB	2.2	2.5	2.8	3.5	1.2	1.5	3.2	2.6	2.5	1.3	11	1.2	2.4	3.5		
	Stockyard	Combustible Matter	10.5	BB	3.5	5.1	2.2	3.3	3.2	3.7	4.2	3.8	4.8	2.7	11	2.2	4.3	10.5	4.3	12.0
7	P7	Insoluble Solids	2.9	4.4	2.6	5.9	120.5	8.5	3.6	2.1	1.5	1.0	6.8	3.2	12	1.0	13.6	120.5	13.6	15.0
	260m West No.2	Ash	1.3	3.2	1.6	4.7	114.6	7.0	2.3	1.3	1.0	0.8	4.5	1.7	12	0.8	12.0	114.6		
	Coal Berth	Combustible Matter	1.6	1.2	1.0	1.2	5.9	1.5	1.3	0.8	0.5	0.2	2.3	1.5	12	0.2	1.6	5.9	1.6	12.0
8	P8	Insoluble Solids	17.7	3.9	5.6	10.8	15.6	19.6	14.7	24.7	28.6	17.8	12.6	18.9	12	3.9	15.9	28.6	15.9	15.0
	PKCT North	Ash	3.7	1.7	2.7	3.2	4.8	5.0	3.4	5.5	5.7	3.4	3.9	4.0	12	1.7	3.9	5.7		
	Truckwash	Combustible Matter	14.0	2.2	2.9	7.6	10.8	14.6	11.3	19.2	22.9	14.4	8.7	14.9	12	2.2	12.0	22.9	12.0	12.0
9	P9	Insoluble Solids	2.0	2.6	1.6	2.4	4.0	3.5	2.7	4.5	2.6	0.8	3.1	3.2	12	0.8	2.8	4.5	2.8	6.0
	Wollongong	Ash	0.7	1.6	0.9	1.1	2.4	2.0	1.6	2.4	1.3	0.3	1.6	1.2	12	0.3	1.4	2.4		
	Wastewater TP.	Combustible Matter	1.3	1.0	0.7	1.3	1.6	1.5	1.1	2.1	1.3	0.5	1.5	2.0	12	0.5	1.3	2.1	1.3	4.0
15	P10	Insoluble Solids	17.2	8.5	9.6	8.9	15.3	15.6	11.2	21.9	14.9	15.6	18.3	10.1	12	8.5	13.9	21.9	12.9	15.0
	North of PKCT	Ash	4.3	3.1	4.4	2.2	6.4	6.1	3.7	6.8	4.0	5.4	5.5	3.4	12	2.2	4.6	6.8		
	Planning Office	Combustible Matter	12.9	5.4	5.2	6.7	8.9	9.5	7.5	15.1	10.9	10.2	12.8	6.7	12	5.2	9.3	15.1	8.5	12.0
17	P11	Insoluble Solids	2.6	4.1	1.2	3.5	3.1	3.7	2.5	3.3	2.3	2.5	2.0	5.4	12	1.2	3.0	5.4	4.1	6.0
	Entry Gate BlueScope		1.7	3.0	0.9	2.4	2.2	2.6	1.8	2.4	1.7	1.9	1.2	2.4	12	0.9	2.0	3.0	10	
	RO.RO Berth (109)	Combustible Matter	0.9	1.1	0.3	1.1	0.9	1.1	0.7	0.9 DMMENT	0.6	0.6	0.8	3.0	12	0.3	1.0	3.0	1.9	4.0
Note : metec Note :	 With regard to the data prological effects. Ash and Combustible N 	ality limits in the EPL for indu reported and consideration Natter are the two compone s report. Data pertaining to A	n of PKC1 ents which	l's contribu	ution to du d make up	ist emission Insoluble	ation provid ns, it is note Solids.	les baselir ed that am	ne data and Ibient air qu	d assessme iality is impa	ent criteria l acted on bj	nas been a y numerou:	dopted to s dust sour	ces indust	rial and other	wise withi				and influenced by
	SAMPLE PERIOD	Date Sampled		esults Ob			e Publishe			TARY ON										
	April 2012	23/04/2012		1/5/2012			31/10/2012			results wi		sment crit	eria:							
	May 2012	21/05/2012		23/6/2012			31/10/2012		all sites:		thin asses			ecorded a	very high re	sult whic	h appears	s not coal	related i.e. low	combustible matter.
June 2012 25/06/2012 3/7/2012 31/10/2012 all sites: results within assessment criteria;																				
	July 2012	23/07/2012		4/8/2012			31/10/2012													
	August 2012	22/08/2012		6/9/2012			31/10/2012		all sites: results within assessment criteria; all sites: results within assessment criteria;											
	September 2012	24/09/2012		3/10/2012			31/10/2012		all sites: results within assessment criteria; all sites: results within assessment criteria;											
	October 2012	24/10/2012		8/11/2012		-	6/11/2012			results wi										
	November 2012	22/11/2012		0/12/2012			8/12/2012													
November 2012 22/11/2012 10/12/2012 18/12/2012 all sites: results within assessment criteria; December 2012 21/12/2012 09/01/2013 23/01/2013 all sites ex.P8: results within assessment criteria; P8 outside of criteria																				





EPL MONITORING SITES- RESIDENTIAL				Calender Year 2012													annual ave	erage: grams		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC					per square	metre.month	
EPL Location No. Gauge Number		Analysis: grams/square metre.month													No. samples collected	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria
12	R1	Insoluble Solids	1.2	1.1	0.3	1.1	1.9	1.2	1.0	1.5	1.7	1.2	2.1	1.5	12	0.3	1.3	2.1	1.3	4.0
	157 Church St	Ash	0.5	0.6	0.1	0.6	1.2	0.8	0.7	0.8	1.2	0.7	1.2	0.7	12	0.1	0.8	1.2		
	Wollongong	Combustible Matter	0.7	0.5	0.2	0.5	0.7	0.4	0.3	0.7	0.5	0.5	0.9	0.8	12	0.2	0.6	0.9	0.6	2.0
19	R2	Insoluble Solids	0.9	2.1	0.4	1.1	2.3	1.2	6.0	1.8	2.0	1.1	1.1	2.6	12	0.4	1.9	6.0	1.9	4.0
	Vikings Oval	Ash	0.2	1.0	0.3	0.4	1.4	0.7	2.5	0.7	1.1	0.5	0.5	1.1	12	0.2	0.9	2.5		
	Wollongong	Combustible Matter	0.7	1.1	0.1	0.7	0.9	0.5	3.5	1.1	0.9	0.6	0.6	1.5	12	0.1	1.0	3.5	1.0	2.0
TBA	A R3 Insoluble Solids		1.8	1.7	0.2	1.6	1.9	1.7	1.7	1.3	1.1	0.2	1.7	1.6	12	0.2	1.4	1.9	1.4	4.0
	Ross Street	Ash	0.8	0.9	0.0	0.6	1.1	0.7	0.9	0.6	0.5	0.0	0.9	0.7	12	0.0	0.6	1.1		
	Wollongong	Combustible Matter	1.0	0.8	0.2	1.0	0.8	1.0	0.8	0.7 ITARY O	0.6	0.2	0.8	0.9	12	0.2	0.7	1.0	0.7	2.0
purpo Note 2 Wollor Note 3	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. Note 2: With regard to the data reported and consideration of PKCT's contribution to dust emissions, it is noted that ambient air quality is impacted on by numerous dust sources industrial and otherwise within and beyond the Wollongong region and influenced by meteorological effects. Note 3: Ash and Combustible Matter are the two components which combined make up Insoluble Solids. * "Date Published" refers to this report. Data pertaining to April-June 2012 also published earlier in Environmental Monitoring Report May 2012 and the Annual Environment Report for 2011/12.																			
	AMPLE PERIOD	Date Sampled		esults Ob	·		e Publis		COMME											
April 2012 23/04/2012 1/5/2012 31/10/2012 all sites: results within assessment criteria May 2012 21/05/2012 23/6/2012 31/10/2012 all sites: results within assessment criteria June 2012 25/06/2012 3/7/2012 31/10/2012 all sites: results within assessment criteria July 2012 23/07/2012 4/8/2012 31/10/2012 all sites: results within assessment criteria August 2012 22/08/2012 6/9/2012 31/10/2012 all sites: results within assessment criteria September 2012 24/09/2012 3/10/2012 31/10/2012 all sites: results within assessment criteria October 2012 24/10/2012 08/11/2012 16/11/2012 all sites: results within assessment criteria November 2012 22/11/2012 10/12/2012 18/12/2012 all sites: results within assessment criteria																				
D	ecember 2012	21/12/2013	09	9/01/2013	3	23	3/01/201	3	all sites:	results	within as	ssessmer	nt criteria	i;						





Water Collection System- Aerial View



Nb South, Tower 3, Central, Workshop, North, TS1 pond and C7 pump collect site runoff for transfer to the settlement lagoon for treatment, reuse and harbour discharge.





SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: POINT 16												
				ality parameter	EPL Limit (100 percentile							
Type of Monitoring: water quality				рН	6.5-9.5*							
Frequency: daily grab sample when			total su	spended solids	less than 50							
			oil/ grease (milligrams per litre)	less than 10							
	Date Results	Date	pH	total suspended solids	oil/ grease							
Sample Date	Obtained	Published	(pH units)	(milligrams per litre)	(milligrams per litre)	Commentary on Results						
02/04/2012	01/05/2012	31/10/2012	9.3	11	less than 5	EPL compliant						
19/04/2012	01/05/2012	31/10/2012	7.3	12	less than 5	EPL compliant						
20/04/2012	01/05/2012	31/10/2012	7.1	23	less than 5	EPL compliant						
21/04/2012	01/05/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
27/04/2012	01/05/2012	31/10/2012	7.5	less than 5	less than 5	EPL compliant						
29/04/2012	01/05/2012	31/10/2012	7.7	less than 5	less than 5	EPL compliant						
30/04/2012	01/05/2012	31/10/2012	7.1	10	less than 5	EPL compliant						
25/05/2012	23/06/2012	31/10/2012	7.2	8	less than 5	EPL compliant						
05/06/2012	03/07/2012	31/10/2012	7.5	5	less than 5	EPL compliant						
08/06/2012	03/07/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
11/06/2012	03/07/2012	31/10/2012	7.4	less than 5	less than 5	EPL compliant						
12/06/2012	03/07/2012	31/10/2012	7.3	8	less than 5	EPL compliant						
13/06/2012	03/07/2012	31/10/2012	7.3	5	less than 5	EPL compliant						
14/06/2012	03/07/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
17/06/2012	03/07/2012	31/10/2012	7.1	10	less than 5	EPL compliant						
26/06/2012	03/07/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
27/06/2012	03/07/2012	31/10/2012	7.1	less than 5	less than 5	EPL compliant						
06/07/2012	04/08/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
11/07/2012	04/08/2012	31/10/2012	7.2	less than 5	less than 5	EPL compliant						
12/07/2012	04/08/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
13/07/2012	04/08/2012	31/10/2012	7.5	less than 5	less than 5	EPL compliant						
14/07/2012	04/08/2012	31/10/2012	7.3	less than 5	less than 5	EPL compliant						
15/07/2012	04/08/2012	31/10/2012	7.0	less than 5	less than 5	EPL compliant						
12/10/2012	06/11/2012	16/11/2012	9.7	60	less than 5	pH,total suspended solids marginally outside EPL limits; algae conttrol trial in progress						
13/11/2012	10/12/2012	18/12/2012	6.6	less than 5	less than 5	EPL compliant						
28/11/2012	10/12/2012	18/12/2012	9.4	18	less than 5	EPL compliant						
19/12/2012	09/01/2013	23/01/2013	9.3	30	<5	EPL compliant						
* "Date Publishe	d" refers to this re	eport. Data per	taining to April-Ju	ine 2012 also published e	earlier in Environmental Moni	toring Report May 2012 and the Annual Environment Management Report for 2011/12.						





WIND ROSES- DECEMBER 2012

