

An aerial photograph of a large industrial port facility, likely a coal terminal. The image shows several large cranes, a ship docked at a pier, and various industrial structures. The text is overlaid on the center of the image.

PKCT Community Consultative Committee Meeting 19th June 2018



*PKCT: A valued link in the
global coal supply chain*

Agenda

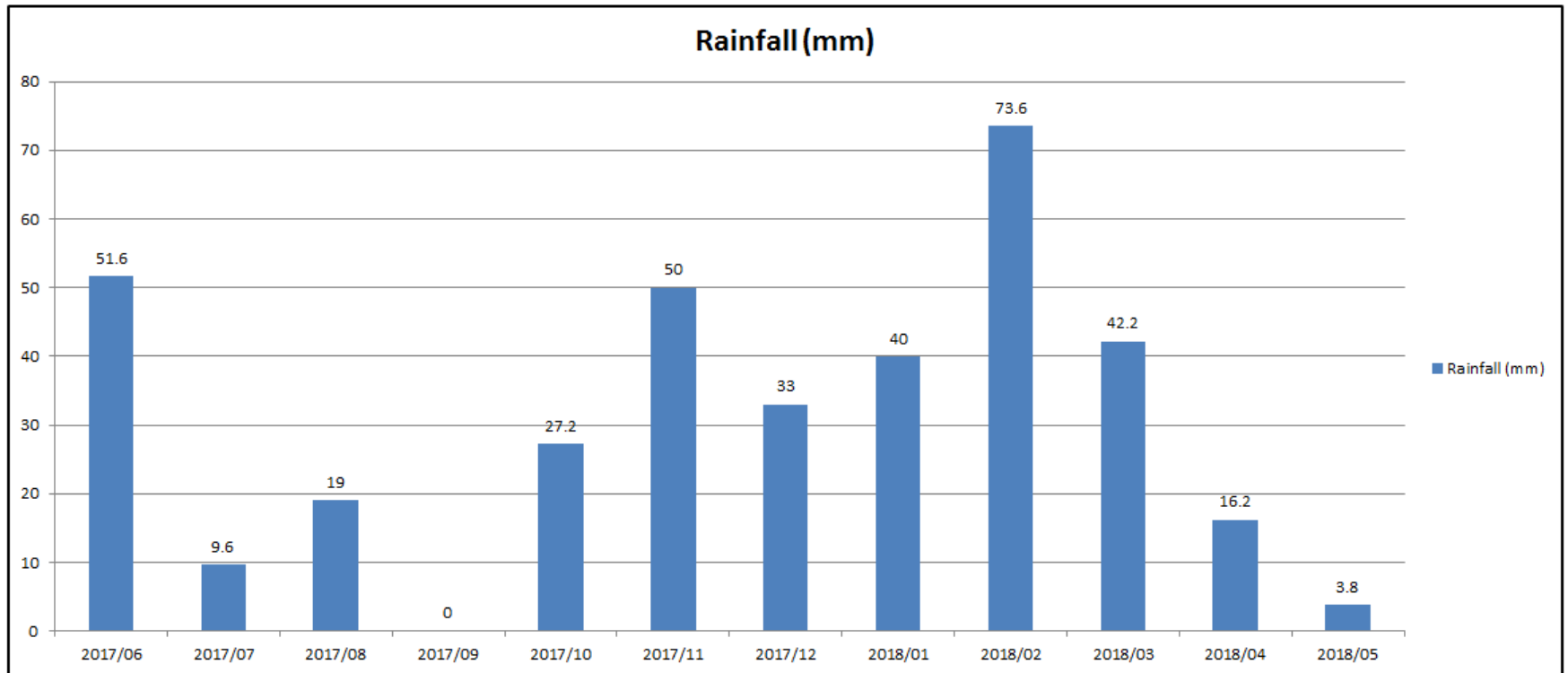
Attendance

- Attendance: Barry Peden, Craig Morris, Anthony Mallon,, Luke Pascot, Mark Beale, John Gorman, Kurt Baumgart
- Apologies: Brendan Leo

Items

1. Weather – Rainfall, Wind
2. Air Quality – Residential
3. Water Quality- Harbour Discharges
4. 2017/2018 Annual Return Summary
5. Environmental Improvements/Initiatives
6. Site Inspection – New Equipment
7. General business
8. Actions

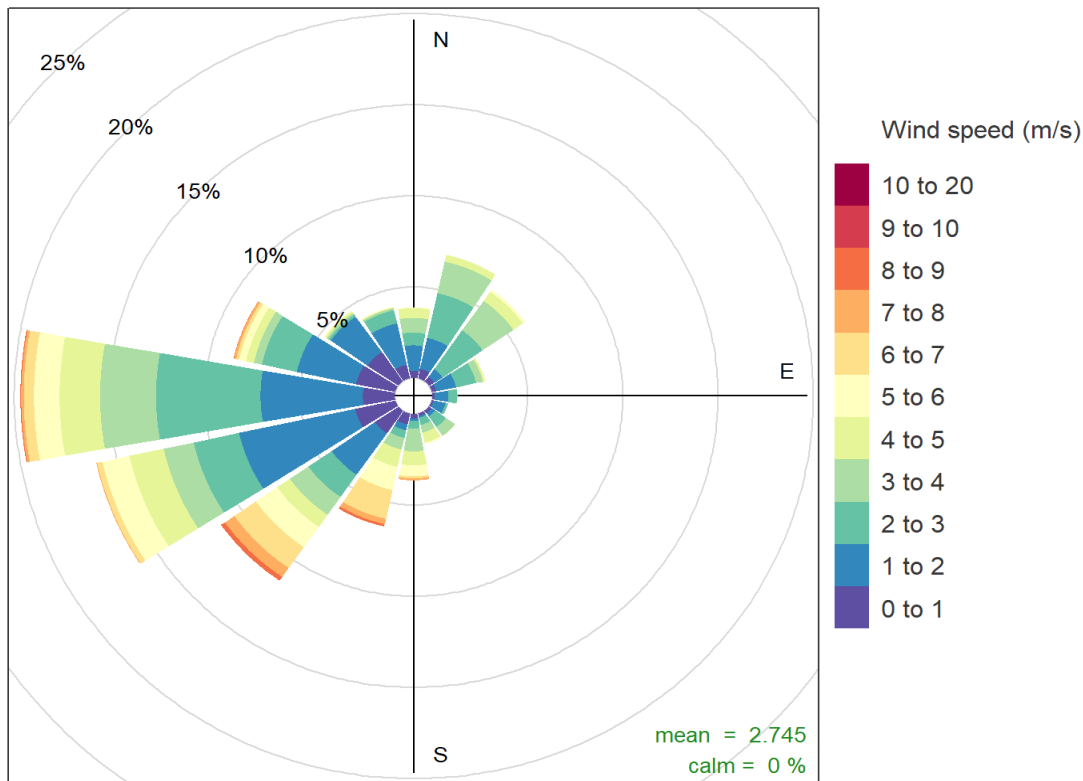
Rainfall



- Last significant rainfall February 2018, 73.6mm across month

Wind – May 2018

Northern monitor



Frequency of counts by wind direction (%)

- Wind results measured at Northern dust gauge at SWTP May 2018
- Mixture of wind directions. Most and strongest from the West followed by south west.
- 1m/sec = 3.6km/h

Dust Gauge Locations

PORT KEMBLA COAL TERMINAL DUST & WEATHER MONITOR LOCATIONS

16th October 2015

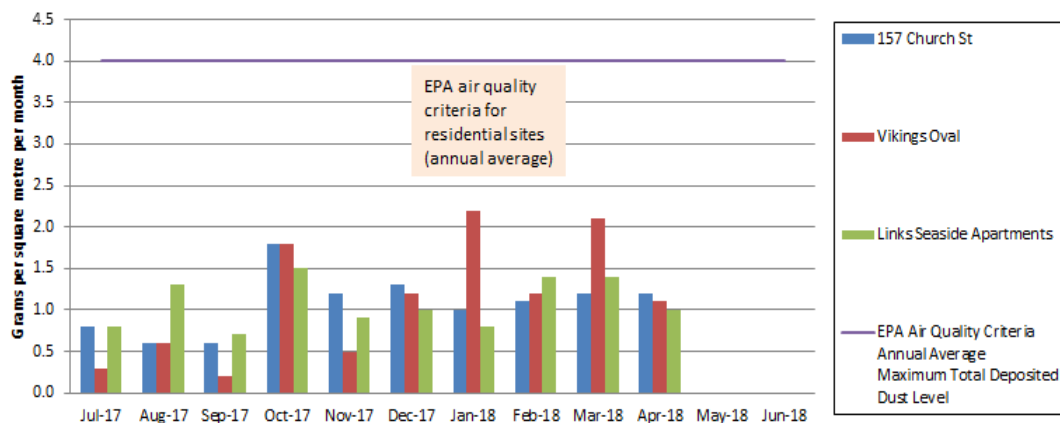


EPL No.	PKCT No.	Dust Monitor Location Description
1	P1	25m south of Bulk Products Berth (BPB)
2	P2	40m south of Bulk Products Berth stockyard
3	P3	40m east of Bulk Products Berth stockyard
4	P4	40m east Coal Berth stockyard
5	P5	Northern Pond (Pond No.1)
6	P6	40m west Coal Berth stockyard
7	P7	250m 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	Links Seaside Apartments
20	C1	Continuous Dust Monitor 1
21	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 ●

Depositional Dust - Residential

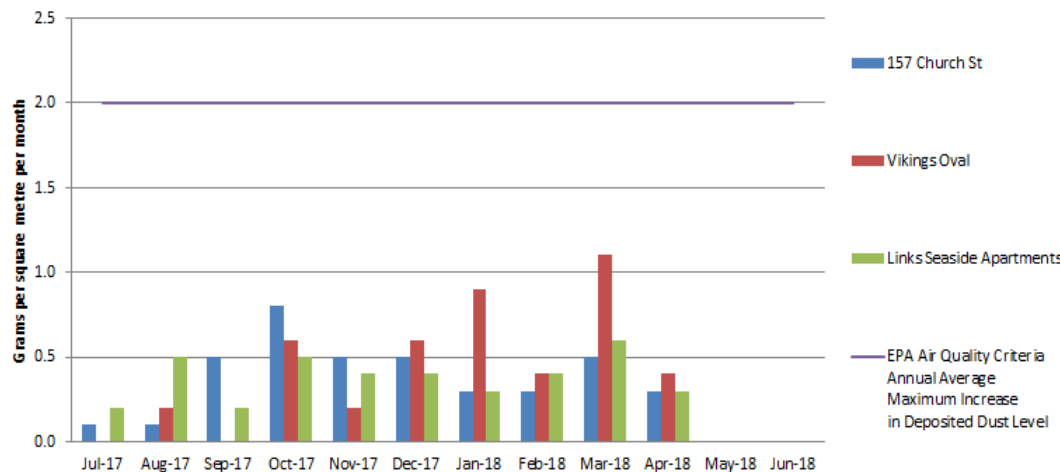
Insoluble Solids - Monthly Residential Dust Deposition Gauges



Since last meeting, the three residential dust gauges were all below EPA 12 month rolling average Air Quality Criteria for Insoluble Solids and Combustible Matter.

- Nb criteria below is an annual average. Data presented in graphs to left is monthly actuals.
- 12 month rolling average Insoluble Solids*
 - Ross St (Links) – 1.0 g/m² month
 - Church St – 1.0 g/m² month
 - Vikings Oval – 1.0 g/m² month
- 12 month rolling average Combustible Matter*
 - Ross St (Links) – 0.4 g/m² month
 - Church St – 0.4 g/m² month
 - Vikings Oval – 0.5 g/m² month

Combustible Matter - Monthly Residential Dust Deposition Gauges



*May 2017 to April 2018

Water Quality – LDP16 Discharge

June 2017 to end of May 2018						
Monitoring Parameter	Number of Overflows	Maximum Recorded Value	Minimum Recorded Value	Mean Recorded Value	Compliant Samples %	EPL Limits
pH	17	9.5	7	8.4	n/a	Measurement only
TSS (mg/L)	17	34	<5	19.3	100%	50mg/L
Oil and Grease (mg/L)	17	<5	<5	<5	100%	Not Visible
<p>Note pH and Oil and Grease limits were removed from EPL in September 2014 Last exceedance on 13th May 2015 TSS 54mg/L</p>						

- Oil and grease remains at 100% compliant, no recording of any oil or grease in any overflow samples
- TSS – 100% compliant,
- pH – Monitoring and reporting only
- As of end January 2018, 1114 days without water quality exceedance from Settlement Lagoon LDP16

2017/2018 Annual Return Summary

- PKCT recently submitted the 2017/2018 EPA Annual Return to the EPA. Return is a 12 month summary/report card on PKCT's licence compliance.
- PKCT had no noise, water, dust non compliances across the reporting period (April to March).
- Only one technical non-compliance recorded which was a small period outage at the Northern Dust Monitor due to an electrical connector failure.
- One anonymous complaint recorded, re. a coal odour from PKCT 31st January 2018. PKCT provided a response to the EPA, no further follow up requested.
- EPA has reviewed the Annual Return and rated PKCT with an Environmental Management Category Level "A" and an Overall Environmental Risk Level "1". This is the best possible risk ranking for an organisation.

3.2 Overall environmental risk matrix

Likelihood Environmental Management Category	E	Level 2	Level 3	Level 3
	D	Level 2	Level 3	Level 3
	C	Level 1	Level 2	Level 3
	B	Level 1	Level 2	Level 3
	A	Level 1	Level 1	Level 2
		Low	Moderate	High

Consequence
Overall regulatory priority based on processes and operations, emissions and environmental context

The overall environmental risk associated with each licensed activity (level 1, 2 or 3) will be published on the [EPA Public Register](#). This will provide the community with more information on the environmental risks, the performance of individual licensees and the EPA's regulatory activities.

Recent Environmental Initiatives/Site Improvements

- **Lighting replacements in Workshop and Store**
- Replaced all metal halide lights with new LED's
- Eastern workshop – 40 lights, Western Workshop – 34 lights, Main Store – 23 lights
 - Total 97 lights changed out, with government rebate, the cost to replace each existing Metal Halide light fitting with an LED fitting was be \$100 (cost saving of \$500 per light fitting). This is cheaper than the cost of a replacement lamp in an existing fitting.
 - Power saving of over 68% of running costs (going from 400w to 127w also with daylight dimmer there will be ongoing power savings)



Recent Environmental Initiatives/Site Improvements

- Water on board new machines allows water misting while stacking and reclaiming. Best practice management process will lower risk of dust generation during stacking and reclaiming process.



IMG_7733.MOV



Recent Environmental Initiatives/Site Improvements

Across last ~6 months, PKCT has been working on our 3 Environmental Improvement Plan initiatives related to dust reduction from the northern and southern stockyards. High level summary of improvements below;

Stockyard Spray optimisation

Project includes update to the speed, angle and configuration of stockyard spray guns to improve performance of guns. Additionally, reprogramming of existing stockyard spray algorithm to increase automation of the system and use real time measurements be more “proactive” as opposed to reactive in dust management. Upgrades are based on expert consultant that has worked on stockyard spray systems at many other East Coast Coal Terminals. Upgrades and programming are considered industry best practice.

Develop Management Plan for Southern Pads/ Bulk Products Area

Project involved review of existing dust management practices in the Bulk Products Area and identified process improvements that could be utilised. Some improvements include;

Management of stockpile height

Erosion control and

Veneering both stockpiles and unpaved areas based on risk (if possible)

Moisture meters

A review of the existing rail moisture meter has been undertaken and a strategy developed to calibrate and include the data in dust management process. A further moisture meter PIA is being developed with the intent to install another meter in the road receival stream.

New Equipment Inspection

- Group to visit new Reclaimer and be briefed on environmental upgrades and benefits over machines
- Projects have improved PKCT water and dust management and reduced likelihood of environmental licence breaches.

- Contact details

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Actions Tracking

Date Raised	Action Description	Action By	Action Status	Date Closed
1211-1	Provide further information on breakdown of “black dust” and various dust sources.	AC	Will seek further information through this next round of testing. January 2018 – latest samples have been with CSIRO since November, expecting results in next 3-4 weeks. June 2018 – will provide summary of results at next meeting	
8/3/17	Community group would like emails notifying them whenever the Seawall Road is closed.	LP	Addressed, PKCT procedure has been updated. LP will be notified internally through email of any planned closures. LP will email CCC group.	07/06/2017
8/3/17	Group requested to look at opening times of the Seawall Road gate as it seems to now be at 7:00am rather than 5am. Opening early would minimise likelihood of cars parking on main access road.	LP	Complete.	25/10/2017
8/3/17	Lock 2 nd gate at Seawall Road rather than first gate.	LP	Complete. Planners are aware of requirement and will as much as possible close second gate. Sometimes there is an operational need to close first gate.	06/07/2017
8/3/17	Group asked if PKCT had looked	LP	Complete – LP raised topic at CoP	21/09/2017

Date Raised	Action Description	Action By	Action Status	Date closed
1612 - 15	Confirm with group whether 4pm meeting times remain the most practical.	LP	Group confirmed that 4pm is still ok. 8/3/17	8/3/17
1606 - 14	PKCT to undertake dust collection and analysis on dust from Barry's veranda if possible.	AC	Meeting at Links, PKCT to send off secondary dust gauge samples for analysis at CSIRO. Samples were subsequently collected and are now with CSIRO for analysis. Results expected early April 2017.	8/3/16



Completed Actions

Date Raised	Action Description	Action By	Action Status
1211-2	Review sampling arrangements at Links Seaside Apartments	AC	Complete
1311-1	Links Seaside Apartments: AC provided BP with sketch of proposed holder .	BP	Complete
1311-2	Investigate various types of tarps in use with consideration to their effectiveness as a dust and spill control. Include in proposed PKCT truck company audits.	LP	Complete
1311-3	Ref. discussion on PM2.5, PM1.0- Review PKCT Dust Data to consider respective contributions in TSP and consider how best to present.	LP	Complete, subject to discussion
1408-13	Clarify on the continuous dust monitoring slide that the data is for the northern monitor.	LP	Complete
1412-03	LDP16 EPL limits were suggested to be added to the “Water Quality Slide”.	LP	Complete added to final presentation.
1412-03	Incorporate summary slide from Port Kembla Harbour Environment Group into next CCC presentation.	AC	Complete
1408-13	Request for feedback to the group re. general environmental performance of the Port. related to PKCT’s participation in the Port Users Group.	AC/PG	AC- discussion with Roger Kirk from PKPC indicated environmental matters not covered in detail and raised on an exception basis.
1412-03	Anthony has old dust gauge in his yard. PKCT to remove.	AC/LP	Complete.



Completed Actions

Date Raised	Action Description	Action By	Action Status
0303 - 1	Provide definitions for “soot” and other point count analysis components.	LP	Complete – See “Attachment A” at end of presentation.
1510-01	Install bottle in 2 nd holder at Links Seaside Apartments site	AC	Completed post meeting; installed on 16.10.15
1510-02	Add NSEW indicator on dust gauge location plan and wind roses	LP	Complete post meeting
1510-03	PKCT website- increase font size of Hotline number	LP	Completed post meeting
1510-04	Update EPL web report dust monitoring location plan- Links Seaside Apartments	LP	Completed post meeting
1510-05	Change bottom arrow between item 7 and 8 on the “process stages of depositional dust monitoring” diagram	LP	Completed post meeting
1510-06	Re. depositional dust monitoring process- get PKCT sampling/ testing firm, SGS to present.	LP	Complete – SGS presented at March 2016 meeting
1408-13	Investigate analysing the dust captured by the continuous dust monitor filters.	LP	Complete - Coalbridge Services in Newcastle was sent samples and worked with CSIRO to undertake and report on dust on filters. Data reported to group in June 16 meeting.