

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 22nd May 2019



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

Agenda

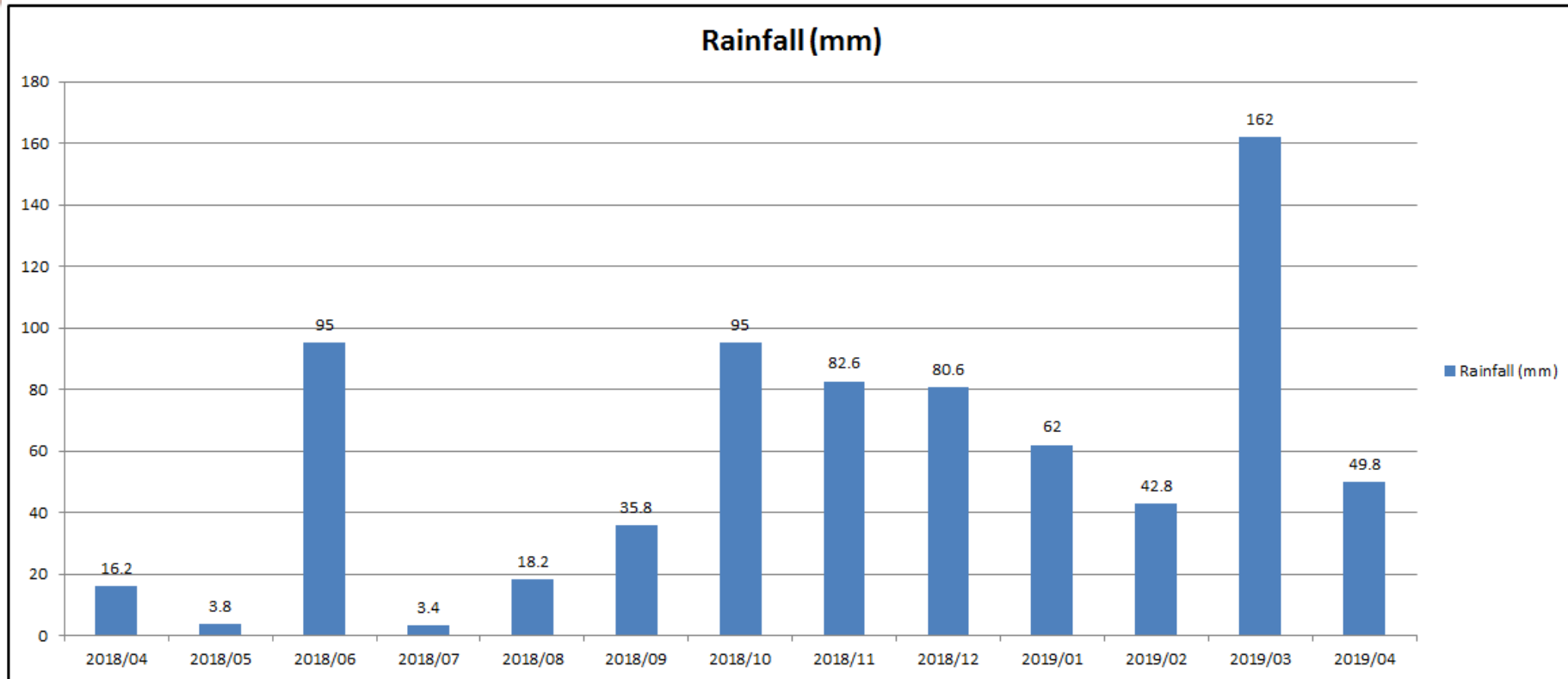
Attendance

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

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

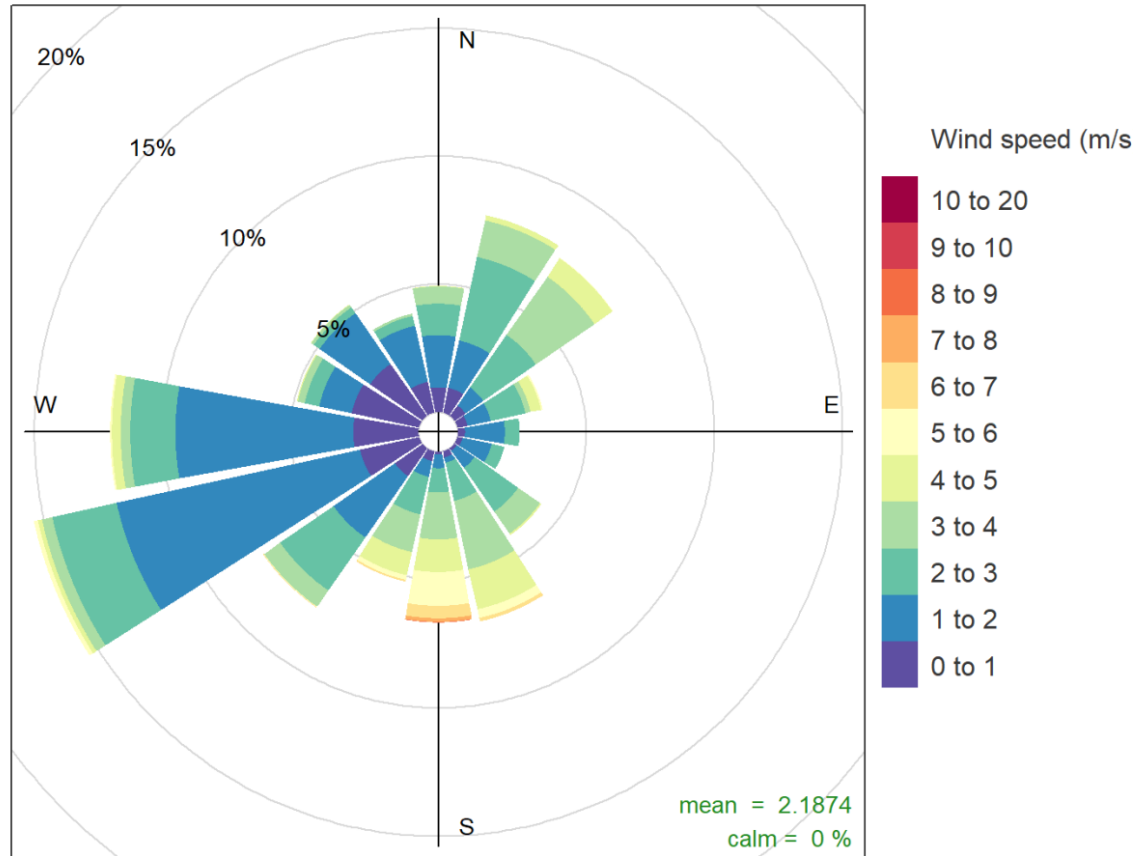
Rainfall



- Last significant rainfall March 2019, 162mm across month, 33mm in 1 hour

Wind – April 2019

Northern monitor



Frequency of counts by wind direction (%)

- Wind results measured at Northern dust gauge at SWTP April 2019.
- Mixture of wind directions. Most and strongest from the South West followed by West
- 1m/sec = 3.6km/h

Dust Gauge Locations

PORT KEMBLA COAL TERMINAL DUST & WEATHER MONITOR LOCATIONS

16th October 2015

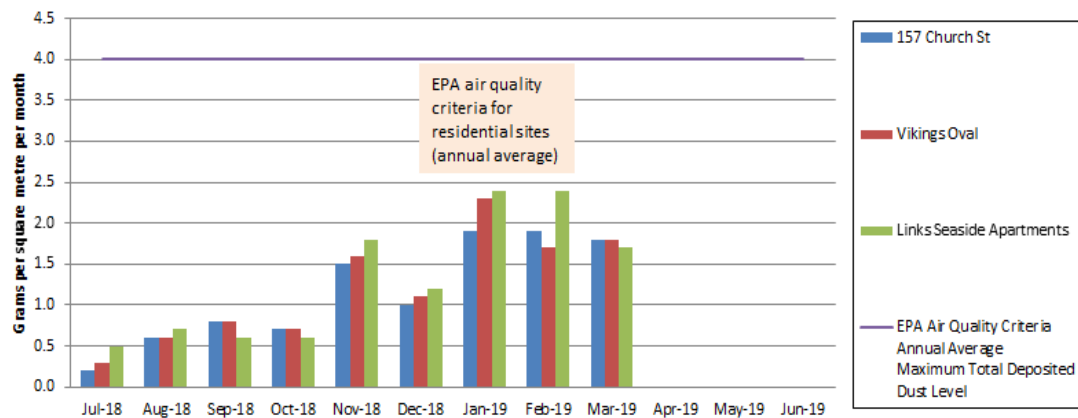


EPL No.	PKCT No.	Dust Monitor Location Description
1	P1	25m south of Bulk Products Berth (BPB)
2	P2	40m south of Bulk Products Berth stockyard
3	P3	40m east of Bulk Products Berth stockyard
4	P4	40m east Coal Berth stockyard
5	P5	Northern Pond (Pond No.1)
6	P6	40m west Coal Berth stockyard
7	P7	250m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



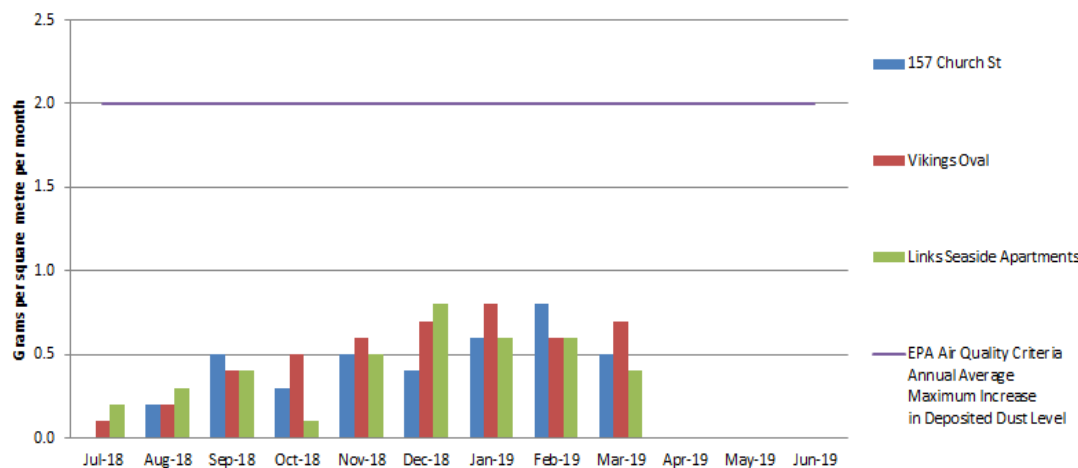
Since last meeting, the three residential dust gauges were all below EPA 12 month rolling average Air Quality Criteria for Insoluble Solids and Combustible Matter.

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) – 1.2 g/m² month
- Church St – 1.0 g/m² month
- Vikings Oval – 1.1 g/m² month

Combustible Matter - Monthly Residential Dust Deposition Gauges



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

*April 2018 to March 2019

Water Quality – LDP16 Discharge

May 2018 to end of April 2019						
Monitoring Parameter	Number of Overflows	Maximum Recorded Value	Minimum Recorded Value	Mean Recorded Value	Compliant Samples %	EPL Limits
pH	100	10.8	7	8.8	n/a	Measurement only
TSS (mg/L)	100	84	<5	15.9	99%	50mg/L
Oil and Grease (mg/L)	100	6	<5	<5	100%	Not Visible
<p>Note pH and Oil and Grease limits were removed from EPL in September 2014 Last exceedance on 15th March 2019 TSS 84mg/L</p>						

- Oil and grease remains at 100% compliant
- TSS – 99% compliant,
- pH – Monitoring and reporting only
- Almost 4 years since last LDP16 Exceedance



Formal Warning for LDP16 Non-Compliance

- The discharge occurred on the 15th following a significant, high intensity, short duration rainfall event on the evening of the 14th March. At this time, between 5pm and 6pm, PKCT received 33.2mm of rainfall on our site. Based on our catchment size, this equates to approximately 21.5 megalitres of water within an hour.
-
- On the 15th March, a sample of TSS 84mg/L (limit 50mg/L) was recorded at our discharge point. This sample was a one day exceedance and the following discharges on 16th, 17th, 18th and 19th were 12, 13, 12, 12mg/L respectively.
- This is the first exceedance at our discharge point since May 2015.
- We have reviewed the incident internally and also with the assistance of our dosing system experts Nalco have found no malfunctions in the operation of the dosing system across the storm event.
- While the investigation identified that the main dosing system faulted during the event, the backup system immediately turned on and functioned across the rest of the storm event as per the design of the system. Follow up testing of the water chemistry and dosing rates of the main and backup system verified the effectiveness of the system after the event.
- The investigation has not found any definitive causes for the exceedance on this day. A possible explanation of the high TSS levels may be a first flush of clays through the catchment network during the rain event. Clays are not effectively removed from the water by PKCT's existing dosing system and have been found to be associated with ROM coal from certain PKCT suppliers in the past. The intensity of the rainfall on this day may have dislodged clays from areas of the plant that have not been flushed for some time.

Formal Warning for LDP16 Non-Compliance

EPA Notification and Response

- As required under our licence, PKCT notified the EPA of the exceedance once the sample results were received. The EPA requested some rainfall data, additional sample results for the following days and a report compiled by our dosing system experts Nalco. This was supplied and following their review, PKCT received a Formal Warning from the EPA via letter dated 12 April 2019.



What next?

- The EPA is not proposing to take enforcement action on this occasion for this event.
- PKCT is progressing installation of a coagulant dosing system at our Northern Pond.

Formal warnings

Formal warnings are used for incidents where the aim is to avoid escalating environmental harm or the opportunity exists to achieve prompt voluntary compliance with legislative requirements. In these cases, the seriousness of the non-compliance is usually at the lower end of the scale so that further enforcement action is not considered necessary. Formal warnings are effective as a means of reminding and educating licensees about statutory requirements and can lead to an escalation of enforcement action if the issue is not addressed.

Recent Environmental Initiatives/Site Improvements

Road Receival Berm Tree Planting

- In Feb and March, 600 trees and shrubs and a watering system were planted along the top of the Road Receival Berm.
- Native plants including banksia, leptospermum sp and lamandra.
- Plants will assist in providing a visual screen to western residents, provide habitat and will assist with dust capture



Pond Sediment Markers installed



New pond markers are being installed around PKCT Ponds to assist in managing sediment levels.



Proposed Gas Plant

- There has been a proposal put forward to build a floating LNG plant at PKCT's southern Berth 101 from Australian Industrial Energy (AIE).
- The proposal has recently been given development consent, which paves way for the company to finalise contract negotiations with industrial customers.
- Final investment decision by consortium expected mid-2019
- First gas could be delivered to NSW industry by late 2020.
- Kylie Hargreaves from AIE can be contacted for information on the proposal;

Ph. 0438 451 652

Kylie.hargreaves@ausindenergy.com

- Contact details

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Date Raised	Action Description	Action By	Action Status	Date Closed
22/05/19	Request PKCT/ Security to open gates on seawall road at first light.	LP		



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. Program ongoing, data being shared with CCC.	15/05/2019
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 into Naturally Occurring Radioactive Materials (NORMS) in coal fines	LP	Complete – LP raised topic at CoP meeting in Mackay recently with other east coast coal terminals. No one had any concerns or community/regulator	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.