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|---------------------------------|---|
| 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 DUST & WEATHER MONITOR LOCATIONS



| 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 ●



PORT KEMBLA COAL TERMINAL LTD.



| EPL MONITORING SITES- INDUSTRIAL | | | Calendar Year 2020 | | | | | | | | | | | | | | | | Annual average: grams per square metre.month | | |
|--|--|---------------------------------------|-----------------------|-----|----------------|------|---|------|------|------|------|-----|-----|-----|----------------------|-----|------|------|--|--------------------------|--|
| Monthly Analysis | | MONTH | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | | | | | | |
| EPL No. | Location Gauge Number | analysis: grams/square metre.month | | | | | | | | | | | | | Samples collected | MIN | MEAN | MAX | rolling 12 month average | PKCT assessment criteria | |
| 1 | P1 25m South BPB Coal Berth | Insoluble Solids | 10.5 | 1.6 | 3.2 | 4.4 | 4.8 | 5.2 | 4.7 | 3.6 | 5.9 | | | | 9 | 1.6 | 4.9 | 10.5 | 4.6 | 15.0 | |
| | | Ash | 8.7 | 1.0 | 2.1 | 3.2 | 3.2 | 3.4 | 3.1 | 2.7 | 4.5 | | | | 9 | 1.0 | 3.5 | 8.7 | | | |
| | | Combustible Matter | 1.8 | 0.6 | 1.1 | 1.2 | 0.9 | 1.8 | 1.6 | 0.9 | 1.4 | | | | 9 | 0.6 | 1.3 | 1.8 | 1.2 | 12.0 | |
| 2 | P2 40m South of BPB Stockyard | Insoluble Solids | 8.3 | 2.6 | 3.0 | 2.5 | 5.0 | 3.1 | 6.6 | 2.4 | 3.9 | | | | 9 | 2.4 | 4.2 | 8.3 | 3.8 | 15.0 | |
| | | Ash | 6.6 | 1.6 | 2.0 | 1.9 | 4.1 | 2.4 | 5.3 | 2.0 | 3.2 | | | | 9 | 1.6 | 3.2 | 6.6 | | | |
| | | Combustible Matter | 1.7 | 1.0 | 1.0 | 0.6 | 0.9 | 0.7 | 1.3 | 0.4 | 0.7 | | | | 9 | 0.4 | 0.9 | 1.7 | 0.9 | 12.0 | |
| 3 | P3 40m East of BPB Stockyard | Insoluble Solids | 9.7 | 6.5 | 5.6 | 6.5 | 6.6 | 6.9 | 24.1 | 14.6 | 14.7 | | | | 9 | 5.6 | 10.6 | 24.1 | 9.6 | 15.0 | |
| | | Ash | 7.9 | 5.1 | 3.4 | 4.7 | 4.6 | 5.3 | 18.7 | 12.5 | 12.4 | | | | 9 | 3.4 | 8.3 | 18.7 | | | |
| | | Combustible Matter | 1.8 | 1.4 | 2.2 | 1.8 | 2.0 | 1.6 | 5.4 | 2.1 | 2.3 | | | | 9 | 1.4 | 2.3 | 5.4 | 2.3 | 12.0 | |
| 4 | P4 40m East Coal Berth Stockyard | Insoluble Solids | 9.7 | 5.2 | 4.2 | 3.6 | 3.8 | 3.3 | 4.7 | 3.9 | 8.3 | | | | 9 | 3.3 | 5.2 | 9.7 | 5.5 | 15.0 | |
| | | Ash | 7.9 | 1.5 | 2.3 | 1.3 | 2.0 | 2.0 | 3.0 | 1.9 | 2.3 | | | | 9 | 1.3 | 2.7 | 7.9 | | | |
| | | Combustible Matter | 1.8 | 3.7 | 1.9 | 2.3 | 1.8 | 1.3 | 1.7 | 2.1 | 6.0 | | | | 9 | 1.3 | 2.5 | 6.0 | 2.9 | 12.0 | |
| 5 | P5 Northern Pond (No.1) | Insoluble Solids | 10.9 | 8.9 | 12.8 | 2.7 | 3.7 | 2.2 | 3.4 | 2.5 | 4.5 | | | | 9 | 2.2 | 5.7 | 12.8 | 6.3 | 15.0 | |
| | | Ash | 7.2 | 3.8 | 3.4 | 0.8 | 1.3 | 0.9 | 1.9 | 1.3 | 1.6 | | | | 9 | 0.8 | 2.5 | 7.2 | | | |
| | | Combustible Matter | 3.7 | 5.1 | 9.4 | 1.9 | 2.4 | 1.3 | 1.5 | 1.2 | 2.9 | | | | 9 | 1.2 | 3.3 | 9.4 | 3.6 | 12.0 | |
| 6 | P6 40m West Coal Berth Stockyard | Insoluble Solids | 12.0 | 3.1 | 7.8 | 1.4 | 1.6 | 0.8 | 9.5 | 5.2 | 5.5 | | | | 9 | 0.8 | 5.2 | 12.0 | 5.8 | 15.0 | |
| | | Ash | 8.8 | 1.4 | 4.1 | 0.9 | 1.1 | 0.5 | 5.9 | 3.4 | 2.6 | | | | 9 | 0.5 | 3.2 | 8.8 | | | |
| | | Combustible Matter | 3.2 | 1.7 | 3.7 | 0.5 | 0.5 | 0.3 | 3.6 | 1.8 | 2.9 | | | | 9 | 0.3 | 2.0 | 3.7 | 2.4 | 12.0 | |
| 7 | P7 260m West No.2 Coalberth | Insoluble Solids | 11.7 | 2.7 | 5.0 | 1.2 | 1.8 | 1.7 | 3.2 | 3.0 | 1.3 | | | | 9 | 1.2 | 4.2 | 11.7 | 4.1 | 15.0 | |
| | | Ash | 8.9 | 1.6 | 3.0 | 0.8 | 1.3 | 1.2 | 7.7 | 2.2 | 0.7 | | | | 9 | 0.7 | 3.0 | 8.9 | | | |
| | | Combustible Matter | 2.8 | 1.1 | 2.0 | 0.4 | 0.5 | 0.5 | 1.5 | 0.8 | 0.6 | | | | 9 | 0.4 | 1.1 | 2.8 | 1.2 | 12.0 | |
| 8 | P8 PKCT North Truckwash | Insoluble Solids | 14.1 | 5.4 | 8.5 | 15.7 | 3.1 | 13.2 | 11.2 | 10.4 | 18.7 | | | | 9 | 5.4 | 11.8 | 18.7 | 13.6 | 15.0 | |
| | | Ash | 8.2 | 1.8 | 2.7 | 2.6 | 2.4 | 3.1 | 3.5 | 3.0 | 4.3 | | | | 9 | 1.8 | 3.5 | 8.2 | | | |
| | | Combustible Matter | 5.9 | 3.6 | 5.8 | 13.1 | 6.7 | 10.1 | 7.7 | 7.4 | 14.4 | | | | 9 | 3.6 | 8.3 | 14.4 | 10.0 | 12.0 | |
| 9 | P9 Wollongong Wastewater TP. | Insoluble Solids | 3.6 | 1.6 | 3.6 | 0.7 | 1.4 | 1.6 | 2.9 | 1.6 | 5.2 | | | | 9 | 0.7 | 3.1 | 3.6 | 3.3 | 6.0 | |
| | | Ash | 7.3 | 0.8 | 1.6 | 0.4 | 0.7 | 0.8 | 1.7 | 0.8 | 1.7 | | | | 9 | 0.4 | 1.8 | 7.3 | | | |
| | | Combustible Matter | 2.3 | 0.8 | 2.0 | 0.3 | 0.7 | 0.8 | 1.2 | 0.8 | 3.5 | | | | 9 | 0.3 | 1.4 | 3.5 | 1.5 | 4.0 | |
| 15 | P10 North of PKCT Planning Office | Insoluble Solids | 17.6 | 6.0 | 7.7 | 2.6 | 6.3 | 3.7 | 6.9 | 5.1 | 6.9 | | | | 9 | 2.6 | 7.0 | 17.6 | 7.7 | 15.0 | |
| | | Ash | 11.7 | 2.5 | 3.4 | 1.2 | 3.9 | 2.0 | 4.4 | 3.0 | 3.1 | | | | 9 | 1.2 | 3.9 | 11.7 | | | |
| | | Combustible Matter | 5.9 | 3.5 | 4.3 | 1.4 | 2.4 | 1.7 | 2.5 | 2.1 | 3.8 | | | | 9 | 1.4 | 3.1 | 5.9 | 3.7 | 12.0 | |
| 17 | P11 Entry Gate BlueScope RD RD Berth (109) | Insoluble Solids | BB | 4.4 | 4.3 | 2.0 | 3.4 | 2.2 | 7.9 | 3.3 | 2.9 | | | | 8 | 2.0 | 3.8 | 7.9 | 3.6 | 6.0 | |
| | | Ash | BB | 3.4 | 3.6 | 1.5 | 2.9 | 1.8 | 6.5 | 2.7 | 2.4 | | | | 8 | 1.5 | 3.1 | 6.5 | | | |
| | | Combustible Matter | BB | 1.0 | 0.7 | 0.5 | 0.5 | 0.4 | 1.4 | 0.6 | 0.5 | | | | 8 | 0.4 | 0.7 | 1.4 | 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 2020 | | 04/02/2020 | 24/02/2020 | | 26/02/2020 | | All sites measured higher than usual deposition during January. The high levels are attributed to the extreme weather conditions and constant smoke haze caused by the NSW bushfires. Sample Site P11 was found on the ground with a broken bottle following a wind storm in January. No sample was collected at Site P11 as a result. One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. There have been some recent dust mitigation strategies installed at the truck wash to reduce dust levels in this location. January particulate levels were low compared to previous months. | | | | | | | | | | | | | | |
| February 2020 | | 04/03/2020 | 20/03/2020 | | 23/03/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. There have been some recent dust mitigation strategies installed at the truck wash to reduce dust levels in this location. February particulate levels were very low. | | | | | | | | | | | | | | |
| March 2020 | | 02/04/2020 | 16/04/2020 | | 16/04/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. March particulate levels were very low. | | | | | | | | | | | | | | |
| April 2020 | | 04/05/2020 | 19/05/2020 | | 19/05/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. April particulate levels were moderate. | | | | | | | | | | | | | | |
| May 2020 | | 02/06/2020 | 22/06/2020 | | 23/06/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. May particulate levels were moderate. | | | | | | | | | | | | | | |
| June 2020 | | 02/07/2020 | 20/07/2020 | | 20/07/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. There have been some recent dust mitigation strategies installed at the truck wash to reduce dust levels in this location. | | | | | | | | | | | | | | |
| July 2020 | | 04/08/2020 | 19/08/2020 | | 21/08/2020 | | One site, "P8" marginally outside rolling annual average assessment criteria for insoluble solids and combustible matter. Site "P8", located near the truck wash is marginally outside the criteria as a result of a few readings across the last 12 months. There have been some recent dust mitigation strategies installed at the truck wash to reduce dust levels in this location. Results for July are relatively low. | | | | | | | | | | | | | | |
| August 2020 | | 02/09/2020 | 21/09/2020 | | 24/09/2020 | | All sites within assessment criteria | | | | | | | | | | | | | | |
| September 2020 | | 02/10/2020 | 03/11/2020 | | 03/11/2020 | | All sites within assessment criteria | | | | | | | | | | | | | | |



PORT KEMBLA COAL TERMINAL LTD.



| EPL MONITORING SITES- RESIDENTIAL | | | | Calendar Year 2020 | | | | | | | | | | | | 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 | | 7.7 | 1.0 | 1.0 | 0.4 | 3.4 | 0.2 | 1.5 | 0.3 | 0.8 | | | | | | | | | |
| | 157 Church St | Ash | | 6.6 | 0.7 | 0.8 | 0.2 | 2.9 | 0.2 | 1.1 | 0.3 | 0.6 | | | | 9 | 0.2 | 1.5 | 6.6 | | |
| | Wollongong | Combustible Matter | | 1.1 | 0.3 | 0.2 | 0.2 | 0.5 | <0.1 | 0.4 | <0.1 | 0.2 | | | | 7 | 0.2 | 0.4 | 1.1 | 0.4 | 2.0 |
| 19 | R2 | Insoluble Solids | | 8.4 | 0.6 | 0.6 | 0.3 | 0.3 | 0.6 | 1.2 | 0.4 | 2.5 | | | | 9 | 0.3 | 1.7 | 8.4 | 2.0 | 4.0 |
| | Vikings Oval | Ash | | 6.4 | 0.4 | 0.3 | 0.1 | 0.2 | 0.4 | 0.7 | 0.2 | 1.0 | | | | 9 | 0.1 | 1.1 | 6.4 | | |
| | Wollongong | Combustible Matter | | 2.0 | 2.0 | 0.3 | 0.2 | 0.1 | 0.2 | 0.5 | 0.2 | 1.5 | | | | 9 | 0.1 | 0.8 | 2.0 | 0.9 | 2.0 |
| TBA | R3 | Insoluble Solids | | 8.6 | 1.9 | 0.6 | 0.3 | 0.3 | 0.3 | 2.7 | 1.9 | 0.7 | | | | 9 | 0.3 | 1.9 | 8.6 | 1.8 | 4.0 |
| | Ross Street | Ash | | 7.2 | 1.4 | 0.4 | 0.1 | 0.1 | 0.2 | 1.9 | 1.3 | 0.5 | | | | 9 | 0.1 | 1.5 | 7.2 | | |
| | Wollongong | Combustible Matter | | 1.4 | 0.5 | 0.2 | 0.2 | 0.2 | 0.1 | 0.8 | 0.6 | 0.2 | | | | 9 | 0.1 | 0.5 | 1.4 | 0.5 | 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 2020 | | 04/02/2020 | | 24/02/2020 | | 26/02/2020 | | All sites measured higher than usual deposition during January. The high levels are attributed to the extreme weather conditions and constant smoke haze caused by the NSW bushfires. All sites within assessment criteria. | | | | | | | | | | | | | |
| February 2020 | | 04/03/2020 | | 20/03/2020 | | 23/03/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| March 2020 | | 02/04/2020 | | 16/04/2020 | | 16/04/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| April 2020 | | 04/05/2020 | | 19/05/2020 | | 19/05/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| May 2020 | | 02/06/2020 | | 22/06/2020 | | 23/06/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| June 2020 | | 02/07/2020 | | 20/07/2020 | | 20/07/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| July 2020 | | 04/08/2020 | | 19/08/2020 | | 21/08/2020 | | All sites within assessment criteria. High insoluble solids recorded in July was confirmed by lab as "dirt" (70% of sample). | | | | | | | | | | | | | |
| August 2020 | | 02/09/2020 | | 21/09/2020 | | 24/09/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| September 2020 | | 02/10/2020 | | 03/11/2020 | | 03/11/2020 | | All sites within assessment criteria. | | | | | | | | | | | | | |
| October 2020 | | | | | | | | | | | | | | | | | | | | | |
| November 2020 | | | | | | | | | | | | | | | | | | | | | |
| December 2020 | | | | | | | | | | | | | | | | | | | | | |



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 |
| 17/01/2020 | 24/02/2020 | 26/02/2020 | 8.8 | 62 | not visible | TSS marginally exceeded EPL limit. Two samples were taken and the second sample recorded TSS of 59mg/L TSS. Exceedance has been reported to EPA. Action plan has been developed and implementation of the plan is underway. |
| 22/01/2020 | 24/02/2020 | 26/02/2020 | 10.0 | 20 | not visible | EPL compliant |
| 23/01/2020 | 24/02/2020 | 26/02/2020 | 10.0 | 26 | not visible | EPL compliant |
| 24/01/2020 | 24/02/2020 | 26/02/2020 | 9.5 | 18 | not visible | EPL compliant |
| 04/02/2020 | 20/03/2020 | 23/03/2020 | 8.1 | 15 | not visible | EPL compliant |
| 05/02/2020 | 20/03/2020 | 23/03/2020 | 7.5 | 8 | not visible | EPL compliant |
| 06/02/2020 | 20/03/2020 | 23/03/2020 | 7.8 | 10 | not visible | EPL compliant |
| 07/02/2020 | 20/03/2020 | 23/03/2020 | 7.2 | 25 | not visible | EPL compliant |
| 08/02/2020 | 20/03/2020 | 23/03/2020 | 7.3 | 6 | not visible | EPL compliant |
| 09/02/2020 | 20/03/2020 | 23/03/2020 | 7.4 | 12 | not visible | EPL compliant |
| 10/02/2020 | 20/03/2020 | 23/03/2020 | 7.5 | 19 | not visible | EPL compliant |
| 12/02/2020 | 20/03/2020 | 23/03/2020 | 7.3 | <5 | not visible | EPL compliant |
| 13/02/2020 | 20/03/2020 | 23/03/2020 | 7.0 | <5 | not visible | EPL compliant |
| 14/02/2020 | 20/03/2020 | 23/03/2020 | 7.1 | 6 | not visible | EPL compliant |
| 16/02/2020 | 20/03/2020 | 23/03/2020 | 7.4 | <5 | not visible | EPL compliant |
| 17/02/2020 | 20/03/2020 | 23/03/2020 | 7.2 | 6 | not visible | EPL compliant |
| 18/02/2020 | 20/03/2020 | 23/03/2020 | 7.5 | 7 | not visible | EPL compliant |
| 19/02/2020 | 20/03/2020 | 23/03/2020 | 7.3 | 9 | not visible | EPL compliant |
| 20/02/2020 | 20/03/2020 | 23/03/2020 | 7.2 | 5 | not visible | EPL compliant |
| 04/03/2020 | 16/04/2020 | 16/04/2020 | 9.2 | 6 | not visible | EPL compliant |
| 05/03/2020 | 16/04/2020 | 16/04/2020 | 9.8 | 8 | not visible | EPL compliant |
| 08/03/2020 | 16/04/2020 | 16/04/2020 | 7.3 | 10 | not visible | EPL compliant |
| 09/03/2020 | 16/04/2020 | 16/04/2020 | 7.6 | 11 | not visible | EPL compliant |
| 10/03/2020 | 16/04/2020 | 16/04/2020 | 7.2 | <5 | not visible | EPL compliant |
| 01/04/2020 | 19/05/2020 | 19/05/2020 | 8.6 | 18 | not visible | EPL compliant |
| 02/04/2020 | 19/05/2020 | 19/05/2020 | 7.6 | 16 | not visible | EPL compliant |
| 04/04/2020 | 19/05/2020 | 19/05/2020 | 8.3 | 7 | not visible | EPL compliant |
| 28/04/2020 | 19/05/2020 | 19/05/2020 | 10.4 | 28 | not visible | EPL compliant |
| 29/04/2020 | 19/05/2020 | 19/05/2020 | 10.2 | 47 | not visible | EPL compliant |
| 30/04/2020 | 19/05/2020 | 19/05/2020 | 9.9 | 26 | 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.



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 |
| 01/05/2020 | 22/06/2020 | 23/06/2020 | 9.6 | 21 | not visible | EPL compliant |
| 16/05/2020 | 22/06/2020 | 23/06/2020 | 9.8 | 30 | not visible | EPL compliant |
| 21/05/2020 | 22/06/2020 | 23/06/2020 | 10.6 | 28 | not visible | EPL compliant |
| 22/05/2020 | 22/06/2020 | 23/06/2020 | 9.3 | 12 | not visible | EPL compliant |
| 23/05/2020 | 22/06/2020 | 23/06/2020 | 7.2 | 5 | not visible | EPL compliant |
| 25/05/2020 | 22/06/2020 | 23/06/2020 | 7.6 | 6 | not visible | EPL compliant |
| 26/05/2020 | 22/06/2020 | 23/06/2020 | 7.8 | <5 | not visible | EPL compliant |
| 09/06/2020 | 20/07/2020 | 20/07/2020 | 8.0 | <5 | not visible | EPL compliant |
| 10/06/2020 | 20/07/2020 | 20/07/2020 | 8.0 | <5 | not visible | EPL compliant |
| 12/06/2020 | 20/07/2020 | 20/07/2020 | 7.8 | <5 | not visible | EPL compliant |
| 13/06/2020 | 20/07/2020 | 20/07/2020 | 7.6 | <5 | not visible | EPL compliant |
| 14/06/2020 | 20/07/2020 | 20/07/2020 | 7.7 | <5 | not visible | EPL compliant |
| 15/06/2020 | 20/07/2020 | 20/07/2020 | 7.7 | <5 | not visible | EPL compliant |
| 16/06/2020 | 20/07/2020 | 20/07/2020 | 7.7 | 8 | not visible | EPL compliant |
| 17/06/2020 | 20/07/2020 | 20/07/2020 | 7.7 | 6 | not visible | EPL compliant |
| 18/06/2020 | 20/07/2020 | 20/07/2020 | 7.7 | <5 | not visible | EPL compliant |
| 22/06/2020 | 20/07/2020 | 20/07/2020 | 7.5 | 7 | not visible | EPL compliant |
| 24/06/2020 | 20/07/2020 | 20/07/2020 | 8.9 | <5 | not visible | EPL compliant |
| 25/06/2020 | 20/07/2020 | 20/07/2020 | 7.1 | 9 | not visible | EPL compliant |
| 26/06/2020 | 20/07/2020 | 20/07/2020 | 9.2 | 6 | not visible | EPL compliant |
| 06/07/2020 | 19/08/2020 | 21/08/2020 | 7.4 | 9 | not visible | EPL compliant |
| 13/07/2020 | 19/08/2020 | 21/08/2020 | 8.9 | 10 | not visible | EPL compliant |
| 14/07/2020 | 19/08/2020 | 21/08/2020 | 8.5 | 10 | not visible | EPL compliant |
| 15/07/2020 | 19/08/2020 | 21/08/2020 | 8.0 | <5 | not visible | EPL compliant |
| 24/07/2020 | 19/08/2020 | 21/08/2020 | 9.0 | <5 | not visible | EPL compliant |
| 26/07/2020 | 19/08/2020 | 21/08/2020 | 8.8 | 7 | not visible | EPL compliant |
| 27/07/2020 | 19/08/2020 | 21/08/2020 | 7.8 | 12 | not visible | EPL compliant |
| 28/07/2020 | 19/08/2020 | 21/08/2020 | 7.3 | 20 | not visible | EPL compliant |
| 29/07/2020 | 19/08/2020 | 21/08/2020 | 7.0 | 7 | not visible | EPL compliant |
| 31/07/2020 | 19/08/2020 | 21/08/2020 | 7.2 | <5 | not visible | EPL compliant |
| * "Date Published" refers to this report. | | | | | | |

* "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.



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.



| 2020 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 2020 | | | | | | | |
| DP24 - Tower 3 Pond | 09/02/2020 | 18/02/2020 | 23/03/2020 | 8.6 | 509 | not visible | Overflow of Tower 3 Pond occurred during very large rain event in February. Over 173mm of rainfall fell across a four day period from 7th to 10th February. 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. |
| DP23 - Central Pond | 09/02/2020 | 24/02/2020 | 23/03/2020 | 8.2 | 290 | not visible | Overflow of Central Pond occurred during very large rain event in February. Over 173mm of rainfall fell across a four day period from 7th to 10th February. 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. |
| DP23 - Central Pond | 10/02/2020 | 19/02/2020 | 23/03/2020 | 7.5 | 153 | not visible | Overflow of Central Pond occurred during very large rain event in February. Over 173mm of rainfall fell across a four day period from 7th to 10th February. 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. |
| DP25 - Southern Pond | 10/02/2020 | 18/02/2020 | 23/03/2020 | 7.7 | 51 | not visible | Overflow of Southern Pond occurred during very large rain event in February. Over 173mm of rainfall fell across a four day period from 7th to 10th February. 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 March 2020 | | | | | | | |
| No overflows from any satellite ponds in April 2020 | | | | | | | |
| No overflows from any satellite ponds in May 2020 | | | | | | | |
| No overflows from any satellite ponds in June 2020 | | | | | | | |
| | | | | | | | |



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2020 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 |
|----------------------|-------------|-----------------------|------------------------|---|---|--|---|
| DP23 - Central Pond | 27/07/2020 | 03/08/2020 | 21/08/2020 | 6.7 | 192 | not visible | Overflow of Central Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |
| DP25 - Southern Pond | 27/07/2020 | 03/08/2020 | 21/08/2020 | 7.5 | 23 | not visible | Overflow of South Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |
| DP24 - Tower 3 pond | 27/07/2020 | 04/08/2020 | 21/08/2020 | 7.03 | 196 | not visible | Overflow of Tower 3 Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |
| DP23 - Central Pond | 28/07/2020 | 04/08/2020 | 21/08/2020 | 7.34 | 200 | not visible | Overflow of Central Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |
| DP24 - Tower 3 pond | 28/07/2020 | 04/08/2020 | 21/08/2020 | 7.43 | 50 | not visible | Overflow of Tower 3 Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |
| DP25 - Southern Pond | 28/07/2020 | 04/08/2020 | 21/08/2020 | 7.31 | 20 | not visible | Overflow of South Pond occurred during large rain event in July. 115.4mm of rainfall fell across a four day period from 25th to 28th July. 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. |



PORT KEMBLA COAL TERMINAL LTD.



2020 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 |
|----------------------|-------------|-----------------------|------------------------|--|--|---|---|
| DP22 - TS1 Pond | 08/08/2020 | 17/08/2020 | 24/09/2020 | 7.24 | 457 | 8 | Overflow of TS1 Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |
| DP23 - Central Pond | 08/08/2020 | 17/08/2020 | 24/09/2020 | 6.28 | 386 | 8 | Overflow of Central Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |
| DP24 - Tower 3 Pond | 08/08/2020 | 17/08/2020 | 24/09/2020 | 6.63 | 88 | <5 | Overflow of Tower 3 Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |
| DP25 - Southern Pond | 08/08/2020 | 17/08/2020 | 24/09/2020 | 6.82 | 115 | 13 | Overflow of South Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |
| DP23 - Central Pond | 10/08/2020 | 17/08/2020 | 24/09/2020 | 6.68 | 94 | <5 | Overflow occurred late evening on the 9th August during heavy rain. Samples taken the next morning when safe to do so. Overflow of Central Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |
| DP24 - Tower 3 Pond | 10/08/2020 | 17/08/2020 | 24/09/2020 | 7.07 | 102 | 16 | Overflow occurred late evening on the 9th August during heavy rain. Samples taken the next morning when safe to do so. Overflow of Tower 3 Pond occurred during large rain event in August. 164.8mm of rainfall fell across a four day period from 7th to 10th August. 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. |

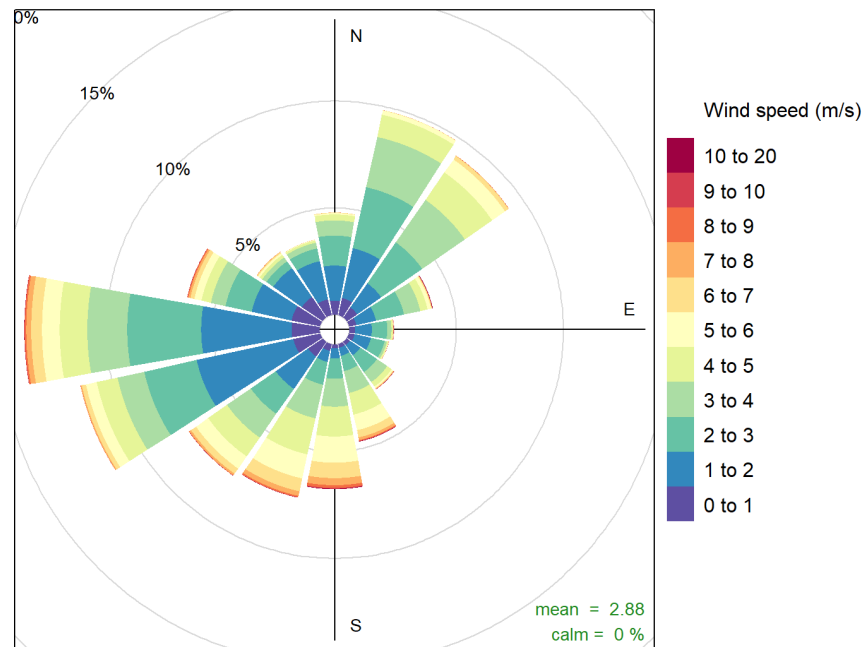
No overflows from any satellite ponds in September 2020

PKCT Water Collection System Discharge Points



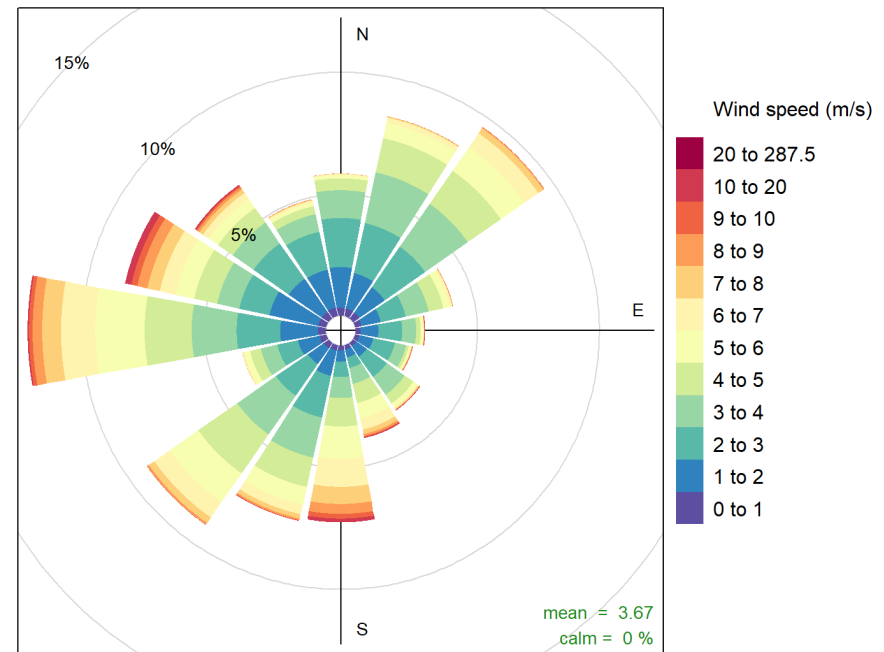
WIND ROSES – September 2020

Northern monitor



Frequency of counts by wind direction (%)

Southern monitor



Frequency of counts by wind direction (%)



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RAINFALL (PKCT site gauge)

