



PORT KEMBLA COAL TERMINAL LTD.



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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 LTD.



| EPL MONITORING SITES- INDUSTRIAL | | | Calendar Year 2022 | | | | | | | | | | | | | | | | Annual average: grams per square metre.month | |
|----------------------------------|--|--|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|------|---------|--------------------------|--|------|
| Monthly Analysis | | MONTH | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | MIN | MEAN | MAX | rolling 12 month average | PKCT assessment criteria | |
| EPL No. | Location Gauge Number | analysis: grams/square metre.month | | | | | | | | | | | | | Samples collected | MIN | MEAN | MAX | | |
| 1 | P1 25m South | Insoluble Solids | | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| | | Ash | | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| | | BPB Coal Berth | Combustible Matter | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| 2 | P2 40m South of BPB Stockyard | Insoluble Solids | | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| | | Ash | | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| | | Combustible Matter | | | | | | | | | | | | | 0 | 0.0 | #DIV/0! | 0.0 | | |
| 3 | P3 40m East of BPB Stockyard | Insoluble Solids | 14.7 | 7.6 | 11.9 | 9.9 | 26.2 | | | | | | | | 5 | 7.6 | 14.1 | 26.2 | 14.8 | 15.0 |
| | | Ash | 11.5 | 5.9 | 1.9 | 7.8 | 22.5 | | | | | | | | 5 | 1.9 | 9.9 | 22.5 | | |
| | | Combustible Matter | 3.2 | 1.7 | 2.8 | 2.1 | 3.7 | | | | | | | | 5 | 1.7 | 2.7 | 3.7 | 3.1 | 12.0 |
| 4 | P4 40m East Coal Berth Stockyard | Insoluble Solids | 3.8 | 3.8 | 3.7 | 4.1 | 5.7 | | | | | | | | 5 | 3.7 | 4.2 | 5.7 | 4.6 | 15.0 |
| | | Ash | 2.0 | 2.2 | 2.2 | 2.4 | 3.0 | | | | | | | | 5 | 2.0 | 2.4 | 3.0 | | |
| | | Combustible Matter | 1.8 | 1.6 | 1.5 | 1.7 | 2.7 | | | | | | | | 5 | 1.5 | 1.9 | 2.7 | 2.4 | 12.0 |
| 5 | P5 Northern Pond (No.1) | Insoluble Solids | 6.5 | 8.8 | 5.4 | 7.2 | 4.5 | | | | | | | | 5 | 4.5 | 6.5 | 8.8 | 5.9 | 15.0 |
| | | Ash | 2.3 | 3.0 | 2.1 | 2.9 | 2.0 | | | | | | | | 5 | 2.0 | 2.5 | 3.0 | | |
| | | Combustible Matter | 4.2 | 5.8 | 3.3 | 4.3 | 2.5 | | | | | | | | 5 | 2.5 | 4.0 | 5.8 | 3.6 | 12.0 |
| 6 | P6 40m West Coal Berth Stockyard | Insoluble Solids | 6.7 | 5.5 | 4.6 | 7.7 | 20.7 | | | | | | | | 5 | 4.6 | 9.0 | 20.7 | 7.6 | 15.0 |
| | | Ash | 3.6 | 2.4 | 2.2 | 3.5 | 5.0 | | | | | | | | 5 | 2.2 | 3.3 | 5.0 | | |
| | | Combustible Matter | 3.1 | 3.1 | 2.4 | 4.2 | 15.7 | | | | | | | | 5 | 2.4 | 5.7 | 15.7 | 4.7 | 12.0 |
| 7 | P7 260m West No.2 Coalberth | Insoluble Solids | 8.4 | 7.1 | 10.9 | 2.0 | 2.5 | | | | | | | | 5 | 2.0 | 6.2 | 10.9 | 14.8 | 15.0 |
| | | Ash | 5.1 | 3.5 | 8.1 | 1.5 | 1.3 | | | | | | | | 5 | 1.3 | 3.9 | 8.1 | | |
| | | Combustible Matter | 3.3 | 3.6 | 2.8 | 0.5 | 1.2 | | | | | | | | 5 | 0.5 | 2.3 | 3.6 | 3.1 | 12.0 |
| 8 | P8 PKCT North Truckwash | Insoluble Solids | 7.3 | 4.4 | 3.6 | 13.9 | 9.0 | | | | | | | | 5 | 3.6 | 7.6 | 13.9 | 10.2 | 15.0 |
| | | Ash | 2.6 | 1.6 | 1.3 | 4.1 | 4.1 | | | | | | | | 5 | 1.3 | 2.7 | 4.1 | | |
| | | Combustible Matter | 4.7 | 2.8 | 2.3 | 9.8 | 4.9 | | | | | | | | 5 | 2.3 | 4.9 | 9.8 | 7.5 | 12.0 |
| 9 | P9 Wollongong Wastewater TP. | Insoluble Solids | 3.6 | 2.9 | 0.7 | 4.6 | 5.5 | | | | | | | | 5 | 0.7 | 3.5 | 5.5 | 3.0 | 6.0 |
| | | Ash | 1.7 | 1.5 | 0.4 | 2.6 | 4.3 | | | | | | | | 5 | 0.4 | 2.1 | 4.3 | | |
| | | Combustible Matter | 1.9 | 1.4 | 0.3 | 2.0 | 1.2 | | | | | | | | 5 | 0.3 | 1.4 | 2.0 | 1.5 | 4.0 |
| 15 | P10 North of PKCT Planning Office | Insoluble Solids | 14.8 | 7.2 | 6.0 | 8.6 | 0.4 | | | | | | | | 5 | 0.4 | 7.4 | 14.8 | 7.4 | 15.0 |
| | | Ash | 4.8 | 4.0 | 2.6 | 5.2 | 0.3 | | | | | | | | 5 | 0.3 | 3.4 | 5.2 | | |
| | | Combustible Matter | 1.9 | 3.2 | 3.4 | 3.4 | 0.1 | | | | | | | | 5 | 0.1 | 2.4 | 3.4 | 3.3 | 12.0 |
| 17 | P11 Entry Gate BlueScope RO.RO Berth (109) | Insoluble Solids | 14.8 | 4.0 | 0.7 | 10.8 | 5.5 | | | | | | | | 5 | 0.7 | 7.2 | 14.8 | 5.5 | 6.0 |
| | | Ash | 4.8 | 3.3 | 0.6 | 8.5 | 4.3 | | | | | | | | 5 | 0.6 | 4.3 | 8.5 | | |
| | | Combustible Matter | 10.0 | 0.7 | 0.1 | 2.3 | 4.9 | | | | | | | | 5 | 0.1 | 3.6 | 10.0 | 2.0 | 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 2022 | 7/01/2022 | 20/02/2022 | 28/02/2022 | P7 result is due to outliers from June & July 2021 due to excessive grain dust |
| February 2022 | 4/03/2022 | 23/03/2022 | 23/03/2022 | P7 result is due to outliers from June & July 2021 due to excessive grain dust |
| March 2022 | 10/04/2022 | 27/04/2022 | 2/05/2022 | P7 result is due to outliers from June & July 2021 due to excessive grain dust |
| April 2022 | 5/05/2022 | 17/05/2022 | 18/05/2022 | P7 result is due to outliers from June & July 2021 due to excessive grain dust |
| May 2022 | 6/06/2022 | 23/06/2022 | | P7 result is due to outliers from June & July 2021 due to excessive grain dust |
| June 2022 | | | | |
| July 2022 | | | | |
| August 2022 | | | | |
| September 2022 | | | | |
| October 2022 | | | | |
| November 2022 | | | | |
| December 2022 | | | | |



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| EPL MONITORING SITES- RESIDENTIAL | | | Calendar Year 2022 | | | | | | | | | | | | Monthly Analysis | | | | annual average: grams per square metre.month | |
|-----------------------------------|---------------|--------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|-----------------------|-----|------|--|--------------------------|
| | | | MONTH | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | No. samples collected | MIN | MEAN | MAX | rolling 12 month average |
| 12 | R1 | Insoluble Solids | 1.2 | 1.0 | 0.5 | 0.7 | 0.4 | | | | | | | | 5 | 0.4 | 0.8 | 1.2 | 0.7 | 4.0 |
| | 157 Church St | Ash | 0.8 | 0.6 | 0.4 | 0.4 | 0.3 | | | | | | | | 5 | 0.3 | 0.5 | 0.8 | | |
| | Wollongong | Combustible Matter | 0.4 | 0.4 | 0.1 | 0.3 | 0.1 | | | | | | | | 5 | 0.1 | 0.3 | 0.4 | 0.3 | 2.0 |
| 19 | R2 | Insoluble Solids | 2.2 | 1.3 | 1.0 | 0.9 | 0.4 | | | | | | | | 5 | 0.4 | 1.2 | 2.2 | 1.1 | 4.0 |
| | Vikings Oval | Ash | 1.0 | 0.8 | 0.3 | 0.4 | 0.2 | | | | | | | | 5 | 0.2 | 0.5 | 1.0 | | |
| | Wollongong | Combustible Matter | 1.2 | 0.5 | 0.7 | 0.5 | 0.2 | | | | | | | | 5 | 0.2 | 0.6 | 1.2 | 0.6 | 2.0 |
| TBA | R3 | Insoluble Solids | 2.0 | 9.2 | 9.7 | 1.8 | 6.6 | | | | | | | | 5 | 1.8 | 5.9 | 9.7 | 4.5 | 4.0 |
| | Ross Street | Ash | 1.3 | 2.5 | 1.3 | 1.0 | 2.0 | | | | | | | | 5 | 1.0 | 1.6 | 2.5 | | |
| | Wollongong | Combustible Matter | 0.7 | 6.7 | 8.4 | 0.8 | 4.6 | | | | | | | | 5 | 0.7 | 4.2 | 8.4 | 3.1 | 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 2022 | 7/01/2022 | 20/02/2022 | 28/02/2022 | All sites within assessment criteria. |
| February 2022 | 4/02/2022 | 23/03/2022 | 23/03/2022 | All sites within assessment criteria. |
| March 2022 | 10/04/2022 | 27/04/2022 | 2/05/2022 | 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. |
| April 2022 | 5/05/2022 | 17/05/2022 | 18/05/2022 | 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. |
| May 2022 | 6/06/2022 | 23/06/2022 | | 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. |
| June 2022 | | | | |
| July 2022 | | | | |
| August 2022 | | | | |
| September 2022 | | | | |
| October 2022 | | | | |
| November 2022 | | | | |
| December 2022 | | | | |



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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 |
| 6/01/2022 | 20/01/2022 | 28/02/2022 | 6.7 | <5 | not visible | EPL compliant |
| 7/01/2022 | 20/01/2022 | 28/02/2022 | 6.8 | <5 | not visible | EPL compliant |
| 8/01/2022 | 20/01/2022 | 28/02/2022 | 7.7 | <5 | not visible | EPL compliant |
| 9/01/2022 | 20/01/2022 | 28/02/2022 | 7.6 | <5 | not visible | EPL compliant |
| 10/01/2022 | 20/01/2022 | 28/02/2022 | 7.2 | 9 | not visible | EPL compliant |
| 13/01/2022 | 20/01/2022 | 28/02/2022 | 6.9 | <5 | not visible | EPL compliant |
| 14/01/2022 | 20/01/2022 | 28/02/2022 | 7.5 | 5 | not visible | EPL compliant |
| 15/01/2022 | 20/01/2022 | 28/02/2022 | 7.5 | <5 | not visible | EPL compliant |
| 16/01/2022 | 20/01/2022 | 28/02/2022 | 7.5 | 16 | not visible | EPL compliant |
| 17/01/2022 | 20/01/2022 | 28/02/2022 | 6.3 | 7 | not visible | EPL compliant |
| 18/01/2022 | 20/01/2022 | 28/02/2022 | 6.6 | <5 | not visible | EPL compliant |
| 23/01/2022 | 20/01/2022 | 28/02/2022 | 7.4 | <5 | not visible | EPL compliant |
| 24/01/2022 | 20/01/2022 | 28/02/2022 | 7.4 | 5 | not visible | EPL compliant |
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* "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.



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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 |
| 5/02/2022 | 23/03/2022 | 23/03/2022 | 7.7 | <5 | not visible | EPL compliant |
| 6/02/2022 | 23/03/2022 | 23/03/2022 | 8.2 | <5 | not visible | EPL compliant |
| 8/02/2022 | 23/03/2022 | 23/03/2022 | 7.0 | <5 | not visible | EPL compliant |
| 9/02/2022 | 23/03/2022 | 23/03/2022 | 7.5 | <5 | not visible | EPL compliant |
| 10/02/2022 | 23/03/2022 | 23/03/2022 | 6.8 | <5 | not visible | EPL compliant |
| 11/02/2022 | 23/03/2022 | 23/03/2022 | 7.5 | <5 | not visible | EPL compliant |
| 12/02/2022 | 23/03/2022 | 23/03/2022 | 7.1 | <5 | not visible | EPL compliant |
| 13/02/2022 | 23/03/2022 | 23/03/2022 | 7.1 | <5 | not visible | EPL compliant |
| 14/02/2022 | 23/03/2022 | 23/03/2022 | 7.1 | <5 | not visible | EPL compliant |
| 18/02/2022 | 23/03/2022 | 23/03/2022 | 7.4 | <5 | not visible | EPL compliant |
| 19/02/2022 | 23/03/2022 | 23/03/2022 | 7.3 | 15 | not visible | EPL compliant |
| 20/02/2022 | 23/03/2022 | 23/03/2022 | 7.5 | 8 | not visible | EPL compliant |
| 21/02/2022 | 23/03/2022 | 23/03/2022 | 7.5 | 18 | not visible | EPL compliant |
| 22/02/2022 | 23/03/2022 | 23/03/2022 | 7.6 | 6 | not visible | EPL compliant |
| 23/02/2022 | 23/03/2022 | 23/03/2022 | 6.6 | 7 | not visible | EPL compliant |
| 24/02/2022 | 23/03/2022 | 23/03/2022 | 6.8 | 11 | not visible | EPL compliant |
| 25/02/2022 | 23/03/2022 | 23/03/2022 | 7.2 | 58 | not visible | EPL compliant (Excessive rain event 104.6mm rain in 72 hour period) |
| 26/02/2022 | 23/03/2022 | 23/03/2022 | 7.7 | 13 | not visible | EPL compliant |
| 27/02/2022 | 23/03/2022 | 23/03/2022 | 7.6 | 30 | not visible | EPL compliant |
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* "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.



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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 |
| 1/03/2022 | 27/04/2022 | 2/05/2022 | 8.0 | <5 | <5 | EPL compliant |
| 2/03/2022 | 27/04/2022 | 2/05/2022 | 7.4 | 8 | <5 | EPL compliant |
| 3/03/2022 | 27/04/2022 | 2/05/2022 | 7.5 | <5 | <5 | EPL compliant |
| 4/03/2022 | 27/04/2022 | 2/05/2022 | 7.0 | 7 | <5 | EPL compliant |
| 5/03/2022 | 27/04/2022 | 2/05/2022 | 7.1 | <5 | <5 | EPL compliant |
| 6/03/2022 | 27/04/2022 | 2/05/2022 | 7.4 | <5 | <5 | EPL compliant |
| 7/03/2022 | 27/04/2022 | 2/05/2022 | 7.3 | 24 | <5 | EPL compliant |
| 8/03/2022 | 27/04/2022 | 2/05/2022 | 7.6 | 46 | <5 | EPL compliant |
| 9/03/2022 | 27/04/2022 | 2/05/2022 | 7.5 | 10 | <5 | EPL compliant |
| 10/03/2022 | 27/04/2022 | 2/05/2022 | 7.5 | <5 | <5 | EPL compliant |
| 11/03/2022 | 27/04/2022 | 2/05/2022 | 7.8 | <5 | <5 | EPL compliant |
| 12/03/2022 | 27/04/2022 | 2/05/2022 | 8.0 | <5 | <5 | EPL compliant |
| 13/03/2022 | 27/04/2022 | 2/05/2022 | 7.9 | <5 | <5 | EPL compliant |
| 14/03/2022 | 27/04/2022 | 2/05/2022 | 8.1 | <5 | <5 | EPL compliant |
| 15/03/2022 | 27/04/2022 | 2/05/2022 | 8.0 | <5 | <5 | EPL compliant |
| 16/03/2022 | 27/04/2022 | 2/05/2022 | 7.9 | <5 | <5 | EPL compliant |
| 17/03/2022 | 27/04/2022 | 2/05/2022 | 7.9 | <5 | <5 | EPL compliant |
| 18/03/2022 | 27/04/2022 | 2/05/2022 | 7.8 | <5 | <5 | EPL compliant |
| 19/03/2022 | 27/04/2022 | 2/05/2022 | 7.8 | 25 | <5 | EPL compliant |
| 20/03/2022 | 27/04/2022 | 2/05/2022 | 7.9 | 11 | <5 | EPL compliant |
| 21/03/2022 | 27/04/2022 | 2/05/2022 | 8.0 | <5 | <5 | EPL compliant |
| 23/03/2022 | 27/04/2022 | 2/05/2022 | 8.2 | <5 | <5 | EPL compliant |
| 25/03/2022 | 27/04/2022 | 2/05/2022 | 7.9 | 5 | <5 | EPL compliant |
| 26/03/2022 | 27/04/2022 | 2/05/2022 | 7.7 | 44 | <5 | EPL compliant |
| 27/03/2022 | 27/04/2022 | 2/05/2022 | 7.8 | 59 | <5 | EPL compliant (Excessive rain event 96.2mm rain in 72 hour period) |
| 28/03/2022 | 27/04/2022 | 2/05/2022 | 8.0 | 22 | <5 | EPL compliant |
| 29/03/2022 | 27/04/2022 | 2/05/2022 | 7.5 | 6 | <5 | EPL compliant |
| 30/03/2022 | 27/04/2022 | 2/05/2022 | 7.3 | 23 | <5 | EPL compliant |
| 31/03/2022 | 27/04/2022 | 2/05/2022 | 7.4 | <5 | <5 | 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.



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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 |
| 1/04/2022 | 17/05/2022 | 18/05/2022 | 7.3 | <5 | <5 | EPL compliant |
| 2/04/2022 | 17/05/2022 | 18/05/2022 | 6.7 | <5 | <5 | EPL compliant |
| 3/04/2022 | 17/05/2022 | 18/05/2022 | 6.9 | <5 | <5 | EPL compliant |
| 4/04/2022 | 17/05/2022 | 18/05/2022 | 7.1 | <5 | <5 | EPL compliant |
| 5/04/2022 | 17/05/2022 | 18/05/2022 | 8.2 | <5 | <5 | EPL compliant |
| 6/04/2022 | 17/05/2022 | 18/05/2022 | 6.8 | 8 | <5 | EPL compliant |
| 7/04/2022 | 17/05/2022 | 18/05/2022 | 6.8 | 40 | <5 | EPL compliant |
| 8/04/2022 | 17/05/2022 | 18/05/2022 | 6.5 | 30 | <5 | EPL compliant |
| 9/04/2022 | 17/05/2022 | 18/05/2022 | 6.8 | 17 | <5 | EPL compliant |
| 10/04/2022 | 17/05/2022 | 18/05/2022 | 7.3 | 12 | <5 | EPL compliant |
| 11/04/2022 | 17/05/2022 | 18/05/2022 | 8.0 | 11 | <5 | EPL compliant |
| 12/04/2022 | 17/05/2022 | 18/05/2022 | 7.3 | 6 | <5 | EPL compliant |
| 13/04/2022 | 17/05/2022 | 18/05/2022 | 7.1 | <5 | <5 | EPL compliant |
| 14/04/2022 | 17/05/2022 | 18/05/2022 | 6.9 | 6 | <5 | EPL compliant |
| 15/04/2022 | 17/05/2022 | 18/05/2022 | 7.4 | <5 | <5 | EPL compliant |
| 16/04/2022 | 17/05/2022 | 18/05/2022 | 7.6 | <5 | <5 | EPL compliant |
| 17/04/2022 | 17/05/2022 | 18/05/2022 | 7.4 | <5 | <5 | EPL compliant |
| 18/04/2022 | 17/05/2022 | 18/05/2022 | 7.5 | <5 | <5 | EPL compliant |
| 19/04/2022 | 17/05/2022 | 18/05/2022 | 7.0 | <5 | <5 | EPL compliant |
| 20/04/2022 | 17/05/2022 | 18/05/2022 | 7.9 | <5 | <5 | EPL compliant |
| 21/04/2022 | 17/05/2022 | 18/05/2022 | 7.3 | <5 | <5 | EPL compliant |
| 22/04/2022 | 17/05/2022 | 18/05/2022 | 7.4 | <5 | <5 | EPL compliant |
| 23/04/2022 | 17/05/2022 | 18/05/2022 | 7.4 | <5 | <5 | EPL compliant |
| 24/04/2022 | 17/05/2022 | 18/05/2022 | 7.6 | 7 | <5 | EPL compliant |
| 25/04/2022 | 17/05/2022 | 18/05/2022 | 7.2 | <5 | <5 | EPL compliant |
| 26/04/2022 | 17/05/2022 | 18/05/2022 | 7.2 | <5 | <5 | EPL compliant |
| 27/04/2022 | 17/05/2022 | 18/05/2022 | 7.5 | 5 | <5 | EPL compliant |
| 28/04/2022 | 17/05/2022 | 18/05/2022 | 8.2 | 8 | <5 | 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.



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2022 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 |
|---|-------------|-----------------------|------------------------|--|--|---|---|
| DP26 - WorkShop Pond | 16/01/2021 | 20/02/2022 | 28/02/2022 | 6.11 | 6 | not visible | Overflow of WorkShop Pond occurred after a storm / heavy rain (22.8mm) in a short period on the 16-1-22. 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 February 2022 | | | | | | | |
| DP22 - TS1 Pond | 6/03/2022 | 27/04/2022 | 2/05/2022 | 7.57 | 155 | not visible | Overflow of TS1 Pond occurred after a heavy rain period (70.2mm) in the 5 day period leading upto 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 | 6/03/2022 | 27/04/2022 | 2/05/2022 | 8.71 | <5 | not visible | Overflow of Workshop Pond occurred after a heavy rain period (70.2mm) in the 5 day period leading upto 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 | 8/03/2022 | 27/04/2022 | 2/05/2022 | 7.72 | 52 | not visible | Overflow of TS1 Pond occurred after a storm / heavy rain (98.4mm) in a short period on the 08-03-22. 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 | 8/03/2022 | 27/04/2022 | 2/05/2022 | 7.66 | 145 | not visible | Overflow of Central Pond occurred after a storm / heavy rain (98.4mm) in a short period on the 08-03-22. 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 | 8/03/2022 | 27/04/2022 | 2/05/2022 | 7.44 | >5 | not visible | Overflow of Workshop Pond occurred after a storm / heavy rain (98.4mm) in a short period on the 08-03-22. 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 | 27/03/2022 | 27/04/2022 | 2/05/2022 | 7.91 | 50 | not visible | Overflow of TS1 Pond occurred after a heavy rain period (96.2mm) in the 3 day period leading upto 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. |



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| | | | | | | | |
|---|-----------|------------|------------|------|-----|-------------|--|
| DP22 - TS1 Pond | 7/04/2022 | 17/05/2022 | 18/05/2022 | 6.58 | 402 | not visible | Overflow of TS1 Pond occurred after a heavy rain period (109.8mm) in the 3 day period leading upto 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. |
| DP23 - Central Pond | 7/04/2022 | 17/05/2022 | 18/05/2022 | 6.89 | 216 | not visible | Overflow of Central Pond occurred after a heavy rain period (109.8mm) in the 3 day period leading upto 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 | 7/04/2022 | 17/05/2022 | 18/05/2022 | 6.55 | 15 | not visible | Overflow of Workshop Pond occurred after a heavy rain period (109.8mm) in the 3 day period leading upto 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 May 2022 | | | | | | | |

PKCT Water Collection System Discharge Points



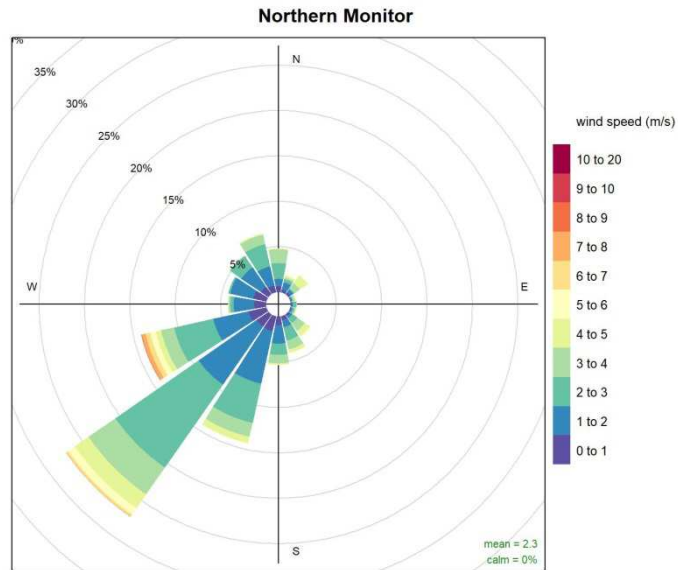


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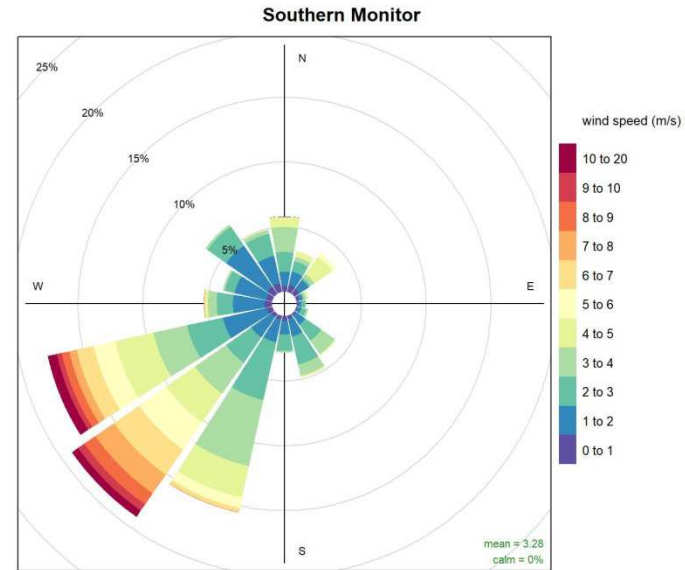


Wind Roses – May 2022

North Wind Rose



South Wind Rose





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RAINFALL (PKCT site gauge)