

Monthly Summary of EPA Monitoring Data



Disclaimer - Monitoring data contained in this document is made available as required by Section 66(6) of the Protection of the Environment Operations Act 1997 and in accordance with the written requirements issued by the NSW Environment Protection Authority. To the best of Kimbriki Environmental Enterprises' knowledge, the data in this table is correct, except where specifically noted. The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises. For more details on publication of pollution monitoring data please refer to the NSW EPA Website, <http://www.epa.nsw.gov.au/index.htm>

| Monitoring Period | 01 January 2016 - 31 January 2016 | | | | | | |
|-----------------------------------|---|--|------------------------------------|------------|------------|----------------------|----------------------|
| Date Published | 15/02/2016. Delayed by 1 day - awaiting gas flare monitoring results analysis for EPA Point 22 | | | | | | |
| EPA Licence No. | 13091 | | | | | | |
| EPA Licence Hyperlink | http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091 | | | | | | |
| Licensee Name | KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED | | | | | | |
| Licensee Address | Locked Bag 6, Terrey Hills, NSW 2084 | | | | | | |
| Monitoring Location (EPA Point 1) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i> | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | 100 percentile limit | Exceed-ance (yes/no) |
| Biochemical oxygen demand | mg/L (Note 1) | Special Frequency 1 (Note 2) | 2 | <5 | <5 | 20 | no |
| Nitrogen (ammonia) | mg/L (Note 1) | Daily during any discharge | 2 | 0.27 | 0.29 | 1 | no |
| pH | pH | Daily during any discharge | 2 | 6.72 | 7.35 | 6.5 - 8.5 | no |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 2 | 13 | 25 | 50 | no |
| Explanatory Notes | (Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge | | | | | | |

Monthly Summary of EPA
Monitoring Data continued.

| Monitoring Location (EPA Point 2) | | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i> | | | | | |
|------------------------------------|---|--|------------------------------------|------------|------------|----------------------|---------------------|
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | 100 percentile limit | Exceedance (yes/no) |
| Biochemical oxygen demand | mg/L (Note 1) | Special Frequency 1 (Note 2) | 6 | <5 | 6 | 20 | no |
| Nitrogen (ammonia) | mg/L (Note 1) | Daily during any discharge | 9 | 0.03 | 0.13 | 1 | no |
| pH | pH | Daily during any discharge | 9 | 6.54 | 7.51 | 6.5 - 8.5 | no |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 9 | 3.2 | 130 | 50 | Yes (Note 3) |
| Explanatory Notes | (Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) Refer to Exceedance Table | | | | | | |
| Monitoring Location (EPA Point 3) | | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)</i> | | | | | |
| Explanatory Notes | No surface water discharge occurred from this monitoring point during the month. | | | | | | |
| Monitoring Location (EPA Point 21) | | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)</i> | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | 100 percentile limit | Exceedance (yes/no) |
| Biochemical oxygen demand | mg/L (Note 1) | Special Frequency 1 (Note 2) | 5 | <5 | <5 | 20 | no |
| Nitrogen (ammonia) | mg/L (Note 1) | Daily during any discharge | 11 | <0.01 | 0.44 | 1 | no |
| pH | pH | Daily during any discharge | 11 | 6.65 | 7.4 | 6.5 - 8.5 | no |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 11 | 2.9 | 82 | 50 | no (Note 3) |
| Explanatory Notes | (Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) As per EPL 13091 L2.1 - This maximum value is not an exceedance as the 5 day cumulative rainfall was 163 mm which is greater than 62.1 mm. | | | | | | |

Monthly Summary of EPA
Monitoring Data continued.

| Monitoring Location (EPA Point 22) | | <i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises. Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 22)</i> | | | | | |
|------------------------------------|---|---|------------------------------------|-----------------|------------|----------------------|---------------------|
| Parameter | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | Lower Limit (Note 2) | Exceedance (yes/no) |
| Residence Time | seconds | Continuous | Continuous | 0.8 | 2.4 | 0.6 | No |
| Temperature | °C (Note 1) | Continuous | Continuous | 153 (Note 3) | 815.5 | 760 | No |
| Explanatory Notes | (Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified (Note 3) This is not an exceedance as the low temperature occurred on 13th January 2016 for only 15 minutes due to shutdown of flare for maintenance and other work. | | | | | | |

Monthly Summary of EPA
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Exceedance Table



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|-----------------------------------|--|--|----------------------|-----------------|-------|--------------------------------------|
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| EPA Licence Hyperlink | http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091 | | | | | |
| Licensee Name | KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED | | | | | |
| Licensee Address | Locked Bag 6, Terrey Hills, NSW 2084 | | | | | |
| Monitoring Location (EPA Point 1) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i> | | | | | |
| Monitoring Location (EPA Point 2) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i> | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | 100 percentile limit | Exceedance Date | Value | Recorded Site Rainfall (mm) (Note 2) |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 50 | 5/01/2016 | 130 | 55 |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 50 | 15/01/2016 | 91 | 25 |
| Exceedance Information | These results were due to rainfall. Works are currently underway to direct flows from the eastern catchments which currently enter EPA Point 2 to the central sediment basin (EPA Point 3). The works also involve significantly increasing the capacity of EPA Point 3. This should greatly reduce the incidence of TSS exceedances from the eastern catchment. | | | | | |
| Explanatory Notes | (Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres) | | | | | |

Monthly Summary of EPA
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| Monitoring Location (EPA Point 1) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i> | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Conductivity | µS/cm (Note 1) | Daily during any discharge | 2 | 253 | 332.5 | 332.5 | 412 |
| Explanatory Notes | (Note 1) µS/cm (microsiemens per centimetre) | | | | | | |
| Monitoring Location (EPA Point 2) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i> | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Conductivity | µS/cm (Note 1) | Daily during any discharge | 9 | 144 | 306 | 258 | 562 |
| Explanatory Notes | (Note 1) µS/cm (microsiemens per centimetre) | | | | | | |
| Monitoring Location (EPA Point 3) | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)</i> | | | | | | |
| Explanatory Notes | No surface water discharge occurred from this monitoring point during the month. | | | | | | |

Monthly Summary of EPA
Monitoring Data continued.

| Monitoring Location (EPA Point 21) | | <i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)</i> | | | | | |
|------------------------------------|---|--|------------------------------------|------------|------------|--------------|------------|
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Conductivity | µS/cm (Note 1) | Daily during any discharge | 11 | 231 | 383.5 | 390 | 480 |
| Explanatory Notes | (Note 1) µS/cm (microsiemens per centimetre) | | | | | | |
| Monitoring Location (EPA Point 22) | | <i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises.</i> | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Volumetric flowrate | m ³ /h (Note 1) | Continuous | Continuous | 0 (Note 2) | 394.4 | 426.0 | 443.0 |
| Explanatory Notes | (Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero minimum value due to the following: 1. Maintenance & other work on flare on 13th January 2016 for 2.0 hours. Blower speed was increased as part of this work. 3. Flame failure on 14th January 2016 for 2.0 hours. Flare restarted remotely. 4. Flame failure on 18th January 2016 for 2.5 hours. Flare restarted on site. 5. Power supply outage on 21st January 2016 for 13.0 hours. Flare restarted on 22nd January 2016. 6. Flame failure on 25th January 2016 for 2.0 hours. Flare restarted on site. 7. Maintenance & other work on flare on 27th January 2016 for 2.0 hours. 8. Flame failure on 29th January 2016 for 0.5 hours. Flare restarted remotely. | | | | | | |