

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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, www.epa.nsw.gov.au

Monitoring Period	Oct-18						
Date Published	16 November 2018						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=71945&SYSUID=1&LICID=13091						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , for location (EPA 1)						
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)	2	<5.0	<5.0	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	2	0.20	0.21	1	No
pH	pH	Daily during any discharge	2	7.34	7.53	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	2	15.0	63.0	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) No exceedance recorded on 14th October 2018 due to monthly extreme rainfall of 79mm in 24 hours. This volume of rainfall occurring in a 24 hour period was greater than the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.						
Monitoring Location (EPA Point 2)	Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , for location (EPA 2)						
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)	2	62	130	20	Yes
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	2	0.37	9.90	1	Yes
pH	pH	Daily during any discharge	2	7.57	7.77	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	2	15.0	42.0	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 with Limits

Monitoring Location (EPA Point 3)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)					
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)	1	12	12	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	2.7	2.70	1	No (Note 3)
pH	pH	Daily during any discharge	1	7.95	7.95	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	100.0	100.0	50	No (Note 4)
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge. (Note 3) No exceedance recorded on 14th October 2018 due to monthly extreme rainfall of 79mm in 24 hours. This volume of rainfall occurring in a 24 hour period was greater than the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to maintain sediment basins in low flow periods in preparation for rainfall. (Note 4) No exceedance recorded on 14th October 2018 due to monthly extreme rainfall of 79mm in 24 hours. This volume of rainfall occurring in a 24 hour period was greater than the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.						
Monitoring Location (EPA Point 21)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)					
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)	12	<5.0	5.6	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	22	0.04	0.68	1	No
pH	pH	Daily during any discharge	22	7.36	8.21	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	22	1.8	240.0	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) No exceedance recorded on 6th, 7th, 11th to 15th October 2018 due to monthly extreme rainfall (241.5mm rainfall from 5th to 15th October) exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to maintain sediment basins in low flow periods in preparation for rainfall. Kimbriki will also continue to perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.						
Monitoring Location (EPA Point 22)		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)					
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)
Temperature	°C (Note 1)	Continuous	Continuous	789	809	760	No
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified						

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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084					
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	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Biochemical oxygen demand	mg/L (Note 2)	Special Frequency 1 (Note 3)	20	19/10/2018	130	17.5mm
Biochemical oxygen demand	mg/L (Note 2)	Special Frequency 1 (Note 3)	20	29/10/2018	62	10.5mm
Nitrogen (ammonia)	mg/L (Note 2)	Daily during any discharge	1	19/10/2018	9.9	17.5mm
Explanatory Notes	(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) Special Frequency 1 - Quarterly and on the first day of discharge (Note 4) Elevated BOD levels on 19th and 29th October 2018 were a result of high rainfall for the month of October 2018 which lead to a one-off failure of pipework associated with transferring leachate from the eastern dam of the vegetation processing area to the central leachate storage dam. This pipework has been upgraded to eliminate a recurrence of this exceedance. (Note 5) Elevated ammonia level on 19th October 2018 was a result of high rainfall for the month of October 2018 which lead to a one-off failure of pipework associated with transferring leachate from the eastern dam of the vegetation processing area to the central leachate storage dam. This pipework has been upgraded to eliminate a recurrence of this					
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	100 percentile limit	Exceedance Date	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Total Suspended Solids	mg/L (Note 2)	Daily during any discharge	50	5/10/2018	240	50mm
Explanatory Notes	(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) Elevated TSS level on 5th October 2018 was due to rainfall of 50mm in 24 hours. This volume of rainfall occurring in a 24 hour period was 80% of the five-day duration 90th percental rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to maintain sediment basins in low flow periods in preparation for rainfall.					

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Monitoring Location (EPA Point 1)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)						
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	248	305	305	361
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 2)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)						
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	1110	1189	1189	1268
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 3)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)						
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	1	387	387	387	387
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 21)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)						
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	22	124	371	386	504
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 22)	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)						
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)	408	418	453
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shutdown on 20th October 2018 for 16.0 hours due to power supply outage. Flare restarted onsite. 2. Flare was shutdown on 27th October 2018 for 2.0 hours due to power supply outage. Flare restarted remotely.						