

Monthly Summary of EPA Monitoring Data



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Monitoring Period	01 May 2015 - 31 May 2015						
Date Published	12 June 2015						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091						
Licensee Name							
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	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	< 2	< 2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	< 0.05	< 0.05	1	no
pH	pH	Daily during any discharge	1	8.1	8.1	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	13	13	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge.						

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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	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	3	< 2	< 2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	6	< 0.05	0.07	1	no
pH	pH	Daily during any discharge	6	7.9	8.3	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	6	< 5	420	50	yes
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge. Refer to Exceedance Table for more information.						
Monitoring Location (EPA Point 3)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)					
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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)	6	< 2	4.2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	11	< 0.05	0.26	1	no
pH	pH	Daily during any discharge	11	7.8	8.2	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	11	< 5	350	50	yes
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						

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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 (Note 3)	Max. value	Lower Limit (Note 2)	Exceedance (yes/no)
Residence Time	seconds	Continuous	Continuous	1.7	1.8	0.6	No
Temperature	°C (Note 1)	Continuous	Continuous	789	805	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 was the minimum value during normal operation for the month excluding: System shutdown on 5 May 15 for 2.0 hrs due to construction work on wells; System shutdown on 10 May 15 for 5.0 hrs due to power supply outage; System shutdown on 11 May 15 for 5.0 hrs due to power supply outage.						

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Exceedance Table



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Licensee Name						
Licensee Address	Locked Bag 6, 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	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	1/05/2015	420	22 mm in 2 days
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	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	1/05/2015	80	22 mm in 2 days
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	2/05/2015	220	30.5 mm in 3 days
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	23/05/2015	350	35 mm in 1 day
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	24/05/2015	110	35 mm in 1 day on 23/5/15
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	25/05/2015	110	35 mm in 1 day on 23/5/15
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	27/05/2015	67	35 mm in 1 day on 23/5/15

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Exceedance Information	While the 5 day cumulative rainfall at the time of these exceedances (EPA Points 2 & 21) did not reach 62.1 mm (EPL 13091 L2.1) they are attributable to the rainfall received. The above exceedances were primarily a result of the upper western sediment basin (DP01) being offline during the month to allow enlargement of the basin from 2ML to 8 ML capacity. KEE is currently preparing a TSS Reduction Plan to further address this issue. Erosion & sediment control activities continue to be carried out on both a routine and continual improvement basis.
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)

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Licensee Name							
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	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	1	0.386	0.386	0.386	0.386
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	6	0.229	0.335	0.358	0.399
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.						

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	11	0.299	0.357	0.357	0.462
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.					
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	0.0 (Note 2)	208.40	212.0	219.0
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) - System shutdown on 5 May 15 for 2.0 hrs due to construction work on wells. System shutdown on 10 May 15 for 5.0 hrs due to power supply outage. Flare was restarted remotely. System shutdown on 11 May 15 for 5.0 hrs due to power supply outage. Contractor had to come to site to restart.						

Quarterly Summary of EPA Monitoring Data



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Monitoring Period	February 2015 - May 2015						
Sample Date	27 May 2015						
Date Published	12 June 2015						
EPA Licence No.	13090						
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=74180&SYSUID=1&LICID=13090						
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 quarter	Min. value	Mean value	Median value	Max. value
Methane	ppm (Note 1)	Quarterly	1	2	53	17	535
Explanatory Notes	(Note 1) ppm (parts per million)						