Monthly Summary of EPA Monitoring Data with Limits

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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	Mar-18
Date Published	17 April 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, 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	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	6	<5	7.20	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	9	0.03	0.49	1	no
pH	pH	Daily during any discharge	9	7.70	9.02	6.5-8.5	Yes (Note 3)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	9	16	190	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) Initial field pH measurement was slightly less than 8.5 and therefore the discharge commenced. Subsequent testing gave the 9.02 result recorded above. The pH probe has since been replaced and calibrated to ensure subsequent measurements of pH are accurate. (Note 4) No exceedance recorded on 13th March 2018 due to monthly extreme rainfall of 65.0mm in 24 hours on this day. 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, 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)	1	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.74	0.74	1	no
pH	pH	Daily during any discharge	1	7.78	7.78	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	22	22	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 continued.

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)	2	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	2	0.17	0.39	1	no
pH	pH	Daily during any discharge	2	8.13	8.26	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	2	19	66	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 13th March 2018 due to monthly extreme rainfall of 65.0mm in 24 hours on this day. 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)	7	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	7	0.06	0.42	1	no
pH	pH	Daily during any discharge	7	8.30	8.93	6.5-8.5	Yes (Note 3)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	7	9.8	150	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) Initial field pH measurement was slightly less than 8.5 and therefore the discharge commenced. Subsequent testing gave the 8.93 result recorded above. The pH probe has since been replaced and calibrated to ensure subsequent measurements of pH are accurate. (Note 4) No exceedance recorded on 13th March 2018 due to monthly extreme rainfall of 65.0mm in 24 hours on this day. 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 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	792.1	814.4	760	no
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must *be greater than* the Lower Limit specified						

Monthly Summary of EPA Monitoring Data - No Limit

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Monitoring Period	Mar-18
Date Published	17 April 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, 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	9	294	420	455	472
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)*						
Conductivity	µS/cm (Note 1)	Daily during any discharge	1	579	579	579	579
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	2	331	426	426	520
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	7	347	520	470	972
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 (Note 2)	321	407	467
Explanatory Notes	(Note 1) m^3/h (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shutdown for 2.0 hours on 20th March 2018 for flow meter replacement. 2. Flare was shutdown for 1.5 hours on 26th March 2018 due to methane analyser fault. Flare was restarted remotely. 3. Flare was shutdown for 9.5 hours on 27th March 2018 due to power supply outage. Flare was restarted remotely.						

Quarterly + Yearly Summary of EPA Monitoring Data

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Monitoring Period	December 2017 - March 2018 (Quarterly) + March 2017 - March 2018 (Yearly)
Date Published	17 April 2016
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	Locked Bag 6, Terrey Hills, NSW 2084

Monitoring Location (EPA Point 4) Leachate Holding Riser - no discharge from site.	*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 4)*

Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	yearly	1	280
Aluminium	mg/L (Note 1)	yearly	1	0.06
Arsenic	mg/L (Note 1)	yearly	1	0.031
Barium	mg/L (Note 1)	yearly	1	0.80
Benzene	mg/L (Note 1)	yearly	1	<0.02
Cadmium	mg/L (Note 1)	yearly	1	<0.0002
Calcium	mg/L (Note 1)	yearly	1	210
Chloride	mg/L (Note 1)	yearly	1	770
Chromium (hexavalent)	mg/L (Note 1)	yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	yearly	1	0.095
Cobalt	mg/L (Note 1)	yearly	1	0.008
Conductivity	µS/cm (Note 2)	yearly	1	6000
Copper	mg/L (Note 1)	yearly	1	0.004
Ethylbenzene	mg/L (Note 1)	yearly	1	<0.02
Fluoride	mg/L (Note 1)	yearly	1	<0.5
Lead	mg/L (Note 1)	yearly	1	0.002
Magnesium	mg/L (Note 1)	yearly	1	77
Manganese	mg/L (Note 1)	yearly	1	0.37
Mercury	mg/L (Note 1)	yearly	1	<0.0001
Nitrate + Nitrite (oxidised nitrogen)	mg/L (Note 1)	yearly	1	<0.5
Nitrogen (Ammonia)	mg/L (Note 1)	yearly	1	480
Organochlorine pesticides	mg/L (Note 1)	yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	yearly	1	<0.02
Ortho phosphate	mg/L (Note 1)	yearly	1	<0.05
pH	pH units	yearly	1	7.5
Phosphorus (total)	mg/L (Note 1)	yearly	1	<0.05
Polycyclic aromatic hydorcarbons	mg/L (Note 1)	yearly	1	0.001
Potassium	mg/L (Note 1)	yearly	1	210
Sodium	mg/L (Note 1)	yearly	1	430
Standing Water Level (m below TOC)	metres	yearly	1	In Situ
Standing Water Level (m AHD)	metres	yearly	1	In Situ
Sulphate	mg/L (Note 1)	yearly	1	110
Toluene	mg/L (Note 1)	yearly	1	<0.02
Total Dissolved Solids - TDS	mg/L (Note 1)	yearly	1	2700
Total Organic Carbon - TOC	mg/L (Note 1)	yearly	1	250
Total Petroleum Hydrocarbons	mg/L (Note 1)	yearly	1	2.26
Total Phenolics	mg/L (Note 1)	yearly	1	<0.25
Total Suspended Solids	mg/L (Note 1)	yearly	1	59
Xylene	mg/L (Note 1)	yearly	1	<0.06
Zinc	mg/L (Note 1)	yearly	1	0.033

Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) µS/cm (microsiemens per centimetre)

Monitoring Location (EPA Point 16)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 16)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	25
Aluminium	mg/L (Note 1)	Yearly	1	0.07
Arsenic	mg/L (Note 1)	Yearly	1	<0.001
Barium	mg/L (Note 1)	Yearly	1	0.08
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	3.0
Chloride	mg/L (Note 1)	Quarterly	1	90
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.011
Copper	mg/L (Note 1)	Yearly	1	<0.001
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.003
Magnesium	mg/L (Note 1)	Quarterly	1	8.8
Manganese	mg/L (Note 1)	Yearly	1	0.76
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	<0.01
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	5.8
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	1.0
Sodium	mg/L (Note 1)	Quarterly	1	40
Standing Water Level (TOC)	metres	Quarterly	1	17.02
Standing Water Level (m AHD)	metres	NA	NA	99.39
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	140
Total organic carbon	mg/L (Note 1)	Quarterly	1	<5
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.011
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monitoring Location (EPA Point 17)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 17)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	32
Aluminium	mg/L (Note 1)	Yearly	1	0.67
Arsenic	mg/L (Note 1)	Yearly	1	0.001
Barium	mg/L (Note 1)	Yearly	1	0.07
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	3.5
Chloride	mg/L (Note 1)	Quarterly	1	90
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	Yearly	1	0.002
Cobalt	mg/L (Note 1)	Yearly	1	0.007
Copper	mg/L (Note 1)	Yearly	1	0.001
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.007
Magnesium	mg/L (Note 1)	Quarterly	1	9.3
Manganese	mg/L (Note 1)	Yearly	1	0.65
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.14
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	5.9
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	1.9
Sodium	mg/L (Note 1)	Quarterly	1	48
Standing Water Level (TOC)	metres	Quarterly	1	7.15
Standing Water Level (m AHD)	metres	NA	NA	62.66
Sulfate	mg/L (Note 1)	Quarterly	1	30
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	150
Total organic carbon	mg/L (Note 1)	Quarterly	1	<5
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.014
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monitoring Location (EPA Point 18)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 18)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	470
Aluminium	mg/L (Note 1)	Yearly	1	0.06
Arsenic	mg/L (Note 1)	Yearly	1	0.002
Barium	mg/L (Note 1)	Yearly	1	0.53
Benzene	mg/L (Note 1)	Yearly	1	<0.01
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	15
Chloride	mg/L (Note 1)	Quarterly	1	280
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	Yearly	1	0.003
Cobalt	mg/L (Note 1)	Yearly	1	0.017
Copper	mg/L (Note 1)	Yearly	1	<0.001
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.01
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.003
Magnesium	mg/L (Note 1)	Quarterly	1	40
Manganese	mg/L (Note 1)	Yearly	1	11
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	70
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.6
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	48
Sodium	mg/L (Note 1)	Quarterly	1	180
Standing Water Level (TOC)	metres	Quarterly	1	13.87
Standing Water Level (m AHD)	metres	NA	NA	81.51
Sulfate	mg/L (Note 1)	Quarterly	1	40
Toluene	mg/L (Note 1)	Yearly	1	<0.01
Total dissolved solids	mg/L (Note 1)	Quarterly	1	820
Total organic carbon	mg/L (Note 1)	Quarterly	1	39
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.5
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.03
Zinc	mg/L (Note 1)	Yearly	1	0.027
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monitoring Location (EPA Point 19)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 19)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	470
Aluminium	mg/L (Note 1)	Yearly	1	<0.05
Arsenic	mg/L (Note 1)	Yearly	1	0.001
Barium	mg/L (Note 1)	Yearly	1	0.30
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	61
Chloride	mg/L (Note 1)	Quarterly	1	260
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	Yearly	1	0.004
Cobalt	mg/L (Note 1)	Yearly	1	<0.001
Copper	mg/L (Note 1)	Yearly	1	<0.001
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	<0.001
Magnesium	mg/L (Note 1)	Quarterly	1	30
Manganese	mg/L (Note 1)	Yearly	1	0.81
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	47
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.6
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	55
Sodium	mg/L (Note 1)	Quarterly	1	150
Standing Water Level (TOC)	metres	Quarterly	1	3.55
Standing Water Level (m AHD)	metres	NA	NA	61.53
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	760
Total organic carbon	mg/L (Note 1)	Quarterly	1	52
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.2
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.009
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monitoring Location (EPA Point 20)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 20)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	32
Aluminium	mg/L (Note 1)	Yearly	1	0.45
Arsenic	mg/L (Note 1)	Yearly	1	0.003
Barium	mg/L (Note 1)	Yearly	1	0.13
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	0.0002
Calcium	mg/L (Note 1)	Quarterly	1	2.7
Chloride	mg/L (Note 1)	Quarterly	1	43
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.001
Chromium (total)	mg/L (Note 1)	Yearly	1	0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.002
Copper	mg/L (Note 1)	Yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.004
Magnesium	mg/L (Note 1)	Quarterly	1	4.9
Manganese	mg/L (Note 1)	Yearly	1	0.47
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	<0.01
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.3
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	1.0
Sodium	mg/L (Note 1)	Quarterly	1	23
Standing Water Level (TOC)	metres	Quarterly	1	21.71
Standing Water Level (m AHD)	metres	NA	NA	99.92
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	100
Total organic carbon	mg/L (Note 1)	Quarterly	1	19
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.050
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monitoring Location (EPA Point 5)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 5)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	1500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	220
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.12
pH	pH	Quarterly	1	6.7
Potassium	mg/L (Note 2)	Quarterly	1	3.6
Redox potential	mV (Note 4)	Quarterly	1	(+) 380
Total dissolved solids	mg/L (Note 2)	Quarterly	1	840
Total organic carbon	mg/L (Note 2)	Quarterly	1	6.2
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 6)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 6)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	340
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	390
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	3.8
Redox potential	mV (Note 4)	Quarterly	1	(+) 300
Total dissolved solids	mg/L (Note 2)	Quarterly	1	360
Total organic carbon	mg/L (Note 2)	Quarterly	1	<5
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 7)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 7)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	1400
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>24000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	32
pH	pH	Quarterly	1	8.4
Potassium	mg/L (Note 2)	Quarterly	1	41
Redox potential	mV (Note 4)	Quarterly	1	(+) 240
Total dissolved solids	mg/L (Note 2)	Quarterly	1	710
Total organic carbon	mg/L (Note 2)	Quarterly	1	37
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 8)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 8)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	970
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	7.8
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	25.0
Redox potential	mV (Note 4)	Quarterly	1	(+) 250
Total dissolved solids	mg/L (Note 2)	Quarterly	1	510
Total organic carbon	mg/L (Note 2)	Quarterly	1	26
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 9)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 9)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	630
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.5
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	820
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	13.0
Redox potential	mV (Note 4)	Quarterly	1	(+) 340
Total dissolved solids	mg/L (Note 2)	Quarterly	1	320
Total organic carbon	mg/L (Note 2)	Quarterly	1	14
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 10)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	5600
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>24000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	420
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	190.0
Redox potential	mV (Note 4)	Quarterly	1	(+) 200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2100
Total organic carbon	mg/L (Note 2)	Quarterly	1	110
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 11)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 11)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	340
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.0
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.02
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	13.0
Redox potential	mV (Note 4)	Quarterly	1	(+) 320
Total dissolved solids	mg/L (Note 2)	Quarterly	1	200
Total organic carbon	mg/L (Note 2)	Quarterly	1	13
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 12)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 12)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	420
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.0
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1600
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.46
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 2)	Quarterly	1	20
Redox potential	mV (Note 4)	Quarterly	1	(+) 280
Total dissolved solids	mg/L (Note 2)	Quarterly	1	230
Total organic carbon	mg/L (Note 2)	Quarterly	1	17
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 13)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 13)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	460
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	180
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.08
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	11
Redox potential	mV (Note 4)	Quarterly	1	(+) 320
Total dissolved solids	mg/L (Note 2)	Quarterly	1	220
Total organic carbon	mg/L (Note 2)	Quarterly	1	11
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 14)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 14)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	490
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.0
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	980
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.17
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	25.0
Redox potential	mV (Note 4)	Quarterly	1	(+) 350
Total dissolved solids	mg/L (Note 2)	Quarterly	1	270
Total organic carbon	mg/L (Note 2)	Quarterly	1	16
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monitoring Location (EPA Point 15)		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 15)*		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	600
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.7
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1300
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	3.6
pH	pH	Quarterly	1	7.2
Potassium	mg/L (Note 2)	Quarterly	1	22
Redox potential	mV (Note 4)	Quarterly	1	(+) 320
Total dissolved solids	mg/L (Note 2)	Quarterly	1	320
Total organic carbon	mg/L (Note 2)	Quarterly	1	16
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

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 quarter/year	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge			

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 quarter/year	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge			