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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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

Monitoring Period	Mar-21
Date Published	22 April 2021
EPA Licence No.	13091
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206062&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)	1	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	5	<0.01	0.21	1	no
pH	pH	Daily during any discharge	5	7.16	7.77	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	5	54.0	600.0	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 was recorded on the 20th, 21st, 22nd, 23rd and 24th March 2021 due to the five-day cumulative rainfall exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to perform daily inspections 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	0.06	0.06	1	no
pH	pH	Daily during any discharge	1	7.35	7.35	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	15.0	15.0	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						

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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	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	3	<0.01	<0.01	1	no
pH	pH	Daily during any discharge	3	7.15	7.52	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	3	67.0	180.0	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 was recorded on the 21st, 22nd and 23rd March 2021 due to the five-day cumulative rainfall exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to perform daily inspections 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)	5	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	23	<0.01	0.72	1	no
pH	pH	Daily during any discharge	23	4.56	8.67	6.5-8.5	no (Note 3)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	23	<5	1000.0	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 pH exceedance was recorded on the 20th, 24th and 25th March 2021 due to the five-day cumulative rainfall exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). Kimbriki will continue to perform daily inspections of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised. (Note 4) No TSS exceedance was recorded on the 18th, 19th, 20th, 21st and 23rd March 2021 due to the five-day cumulative rainfall exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm).						

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)
Residence Time	seconds	Continuous	Continuous	0.7	0.8	0.6	no
Temperature	°C (Note 1)	Continuous	Continuous	791	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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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	5	148	262	277	406
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	1	268	268	268	268
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	3	99	139	144	173
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	23	153	336	281	756
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)	470	485	515
Explanatory Notes	(Note 1) m^3/h (cubic metres per hour) (Note 2) Zero Value due to: 1. Flare was shutdown on 21st March 2021 for ~21.5 hours due to power supply outage. Flare was unable to be restarted remotely during the weekend. Flare was restarted manually on site on the following Monday. 2. Flare was shutdown on 22nd March 2021 for ~2.5 hours due to power supply outage. Flare was restarted remotely.						

Quarterly + Yearly Summary of EPA Monitoring Data

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Monitoring Period	December 2020 - March 2021 (Quarterly) + March 2020 - March 2021 (Yearly). Groundwater sampled 10 March 2021. Surface water sampled 11 March 2021.
Date Published	22 April 2021
EPA Licence No.	13091
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206062&SYSUID=1&LICID=13091
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084

Monitoring Location **(EPA Point 1/11)**	*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location **(EPA 1/11)***			
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
Conductivity	µS/cm (Note 3)	Quarterly	1	310
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	9.0
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	330
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 1)	Quarterly	1	5.9
Redox potential	mV (Note 5)	Quarterly	1	270
Total dissolved solids	mg/L (Note 1)	Quarterly	1	200
Total organic carbon	mg/L (Note 1)	Quarterly	1	9.4
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) µS/cm (microsiemens per centimetre) (Note 4) org/100 mL (colony forming units per 100 millilitres) (Note 5) mV (millivolts)			

Quarterly + Yearly Summary of EPA Monitoring Data

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 3/12)**		*Please refer to the map, Kimbriki Monitoring Sites.pdf, for location* ***(EPA 3/12)***		
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	7.6
Conductivity	µS/cm (Note 3)	Quarterly	1	360
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	860
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.06
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 1)	Quarterly	1	8.5
Redox potential	mV (Note 5)	Quarterly	1	270
Total dissolved solids	mg/L (Note 1)	Quarterly	1	260
Total organic carbon	mg/L (Note 1)	Quarterly	1	17
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) µS/cm (microsiemens per centimetre) (Note 4) org/100 mL (colony forming units per 100 millilitres) (Note 5) mV (millivolts)			

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Quarterly + Yearly Summary of EPA Monitoring Data

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	1900
Aluminium	mg/L (Note 1)	yearly	1	<0.05
Arsenic	mg/L (Note 1)	yearly	1	0.007
Barium	mg/L (Note 1)	yearly	1	0.95
Benzene	mg/L (Note 1)	yearly	1	0.001
Cadmium	mg/L (Note 1)	yearly	1	<0.0002
Calcium	mg/L (Note 1)	yearly	1	70
Chloride	mg/L (Note 1)	yearly	1	470
Chromium (hexavalent)	mg/L (Note 1)	yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	yearly	1	0.031
Cobalt	mg/L (Note 1)	yearly	1	0.006
Conductivity	µS/cm (Note 2)	yearly	1	4300
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)	yearly	1	46
Manganese	mg/L (Note 1)	yearly	1	0.21
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	380
Organochlorine pesticides	mg/L (Note 1)	yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	yearly	1	<0.02
Ortho phosphate	mg/L (Note 1)	yearly	1	0.12
pH	pH units	yearly	1	7.7
Phosphorus (total)	mg/L (Note 1)	yearly	1	0.5
Polycyclic aromatic hydorcarbons	mg/L (Note 1)	yearly	1	<0.001
Potassium	mg/L (Note 1)	yearly	1	140
Sodium	mg/L (Note 1)	yearly	1	280
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	29
Toluene	mg/L (Note 1)	yearly	1	<0.001
Total Dissolved Solids - TDS	mg/L (Note 1)	yearly	1	1800
Total Organic Carbon - TOC	mg/L (Note 1)	yearly	1	130
Total Petroleum Hydrocarbons	mg/L (Note 1)	yearly	1	1.1
Total Phenolics	mg/L (Note 1)	yearly	1	<0.05
Total Suspended Solids	mg/L (Note 1)	yearly	1	1.4
Xylene	mg/L (Note 1)	yearly	1	<0.003
Zinc	mg/L (Note 1)	yearly	1	<0.005
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) µS/cm (microsiemens per centimetre)			

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	280
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.9
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	6900
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.06
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	4.4
Redox potential	mV (Note 4)	Quarterly	1	280
Total dissolved solids	mg/L (Note 2)	Quarterly	1	180
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)			

Quarterly + Yearly Summary of EPA Monitoring Data

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	360
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.07
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	7.0
Redox potential	mV (Note 4)	Quarterly	1	250
Total dissolved solids	mg/L (Note 2)	Quarterly	1	310
Total organic carbon	mg/L (Note 2)	Quarterly	1	5.8
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	370
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	1100
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.09
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	8.8
Redox potential	mV (Note 4)	Quarterly	1	540
Total dissolved solids	mg/L (Note 2)	Quarterly	1	210
Total organic carbon	mg/L (Note 2)	Quarterly	1	5.1
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)			

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Quarterly + Yearly Summary of EPA Monitoring Data

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	4400
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	3.0
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	310
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	250
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	160
Redox potential	mV (Note 4)	Quarterly	1	120
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2500
Total organic carbon	mg/L (Note 2)	Quarterly	1	100
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	540
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	370
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	3.0
pH	pH	Quarterly	1	7.1
Potassium	mg/L (Note 2)	Quarterly	1	11
Redox potential	mV (Note 4)	Quarterly	1	480
Total dissolved solids	mg/L (Note 2)	Quarterly	1	340
Total organic carbon	mg/L (Note 2)	Quarterly	1	9
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)			

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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
Explanatory Notes	Sample could not be collected as there was no flow at this location.			
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	610
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	990
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	8.2
pH	pH	Quarterly	1	7.1
Potassium	mg/L (Note 2)	Quarterly	1	19
Redox potential	mV (Note 4)	Quarterly	1	200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	390
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)			

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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	<20
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	0.09
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	2.8
Chloride	mg/L (Note 1)	Quarterly	1	86
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
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	0.005
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	9.3
Manganese	mg/L (Note 1)	Yearly	1	0.9
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	0.05
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	2.2
Sodium	mg/L (Note 1)	Quarterly	1	31
Standing Water Level (TOC)	metres	Quarterly	1	17.88
Standing Water Level (m AHD)	metres	NA	NA	98.5
Sulfate	mg/L (Note 1)	Quarterly	1	8.1
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	200
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	0.055
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	<20
Aluminium	mg/L (Note 1)	Yearly	1	0.35
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	2
Chloride	mg/L (Note 1)	Quarterly	1	89
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.008
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	0.002
Magnesium	mg/L (Note 1)	Quarterly	1	6
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	0.09
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	3
Sodium	mg/L (Note 1)	Quarterly	1	38

Standing Water Level (TOC)	metres	Quarterly	1	7.862
Standing Water Level (m AHD)	metres	NA	NA	61.8
Sulfate	mg/L (Note 1)	Quarterly	1	40
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	200
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	0.015
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	440
Aluminium	mg/L (Note 1)	Yearly	1	0.11
Arsenic	mg/L (Note 1)	Yearly	1	0.001
Barium	mg/L (Note 1)	Yearly	1	0.28
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	33
Chloride	mg/L (Note 1)	Quarterly	1	250
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.003
Cobalt	mg/L (Note 1)	Yearly	1	<0.001
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	0.003
Magnesium	mg/L (Note 1)	Quarterly	1	21
Manganese	mg/L (Note 1)	Yearly	1	0.74
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	43
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002

Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.9
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	58
Sodium	mg/L (Note 1)	Quarterly	1	120
Standing Water Level (TOC)	metres	Quarterly	1	4.321
Standing Water Level (m AHD)	metres	NA	NA	60.6
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	780
Total organic carbon	mg/L (Note 1)	Quarterly	1	33.0
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	0.01
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	<0.05
Arsenic	mg/L (Note 1)	Yearly	1	<0.001
Barium	mg/L (Note 1)	Yearly	1	0.15
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	3.2
Chloride	mg/L (Note 1)	Quarterly	1	45
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
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	<0.001
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	4.9
Manganese	mg/L (Note 1)	Yearly	1	0.55
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	0.05
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.5
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	2.2
Sodium	mg/L (Note 1)	Quarterly	1	16
Standing Water Level (TOC)	metres	Quarterly	1	21.932
Standing Water Level (m AHD)	metres	NA	NA	99.73
Sulfate	mg/L (Note 1)	Quarterly	1	8.9
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	130
Total organic carbon	mg/L (Note 1)	Quarterly	1	15.0
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	1.8
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 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			