

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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

Monitoring Period	01 March 2013 - 31 March 2013
Date Published	12 April 2013
EPA Licence No.	13091
EPA Licence Hyperlink	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091</a>
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED
Licensee Address	Locked Bag 6, 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	< 2	18	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	9	< 0.01	0.28	1	no
pH	pH	Daily during any discharge	9	7.3	8.1	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	9	< 5	150	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 - As the 5 day cumulative rainfall was 99.5mm which is greater than 62.1 mm and Kimbriki took all practical measures to avoid or minimise water pollution, then no exceedance is taken to have occurred.

**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	3.6	13	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	8	0.03	0.2	1	no
pH	pH	Daily during any discharge	8	7	7.9	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	8	9.5	340 170	50	no (Note 3) yes (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) As per EPL 13091 L2.1 - The maximum value measured was 340, however this occurred when the 5 day cumulative rainfall was 99.5mm which is greater than 62.1 mm and Kimbriki took all practical measures to avoid or minimise water pollution, as such this occurrence is not taken to have been an exceedance.  
 (Note 4) Please refer to Exceedance Table for further information.

Monthly Summary of EPA  
Monitoring Data 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)	Nil (Note 3)	-	-	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	Nil (Note 3)	-	-	1	no
pH	pH	Daily during any discharge	Nil (Note 3)	-	-	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	Nil (Note 3)	-	-	50	no
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 discharge during 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)	9	< 2	6.2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	14	0.01	0.4	1	no
pH	pH	Daily during any discharge	14	7.1	8.2	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	14	< 5	120	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 - As the 5 day cumulative rainfall was 99.5mm which is greater than 62.1 mm and Kimbriki took all practical measures to avoid or minimise water pollution, then no exceedance is taken to have occurred.						

**Exceedance Table**



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Date Published	12 April 2013					
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EPA Licence Hyperlink	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091</a>					
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
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	19/03/2013	170	7.5
				20/03/2013	110	0
Exceedance Information	While the 5 day cumulative rainfall during these exceedances did not reach 62.1 mm (EPL 13091 L2.1) the total rainfall measured during the month of March was significant at 119mm. Kimbriki took all practical measures to avoid and minimise these exceedances through the ongoing implementation of the Erosion & Sediment Control Plan.					
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)					

Other formats are available.

Monthly Summary of EPA Monitoring Data



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Monitoring Period	01 March 2013 - 31 March 2013						
Date Published	12 April 2013						
EPA Licence No.	13091						
EPA Licence Hyperlink	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091</a>						
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	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	9	250	378	380	500
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	8	300	600	595	810
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>						
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	Nil (Note 2)	-	-	-	-
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) No discharge during 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	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	14	320	427	445	520
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						

Quarterly + Yearly Summary of EPA Monitoring Data



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Monitoring Period	December 2012 - March 2013 (Quarterly) + March 2012 - March 2013 (Yearly)			
Sample Date	11 March 2013			
Date Published	12 April 2013			
EPA Licence No.	13091			
EPA Licence Hyperlink	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&amp;SYSUID=1&amp;LICID=13091</a>			
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED			
Licensee Address	Locked Bag 6, Terrey Hills, NSW 2084			
Monitoring Location (EPA Point 5)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 5)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	470
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	120
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.01
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	2.2
Redox potential	mV (Note 4)	Quarterly	1	(+)222
Total dissolved solids	mg/L (Note 2)	Quarterly	1	280
Total organic carbon	mg/L (Note 2)	Quarterly	1	5.5
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 6)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 6)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	370
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	130
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	2.2
Redox potential	mV (Note 4)	Quarterly	1	(+)180
Total dissolved solids	mg/L (Note 2)	Quarterly	1	220
Total organic carbon	mg/L (Note 2)	Quarterly	1	6.5
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)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 7)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	460
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	140
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.01
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	9.6
Redox potential	mV (Note 4)	Quarterly	1	(+)187
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
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)			

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	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	450
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	11
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	60
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.01
pH	pH	Quarterly	1	8.6
Potassium	mg/L (Note 2)	Quarterly	1	8.1
Redox potential	mV (Note 4)	Quarterly	1	(+)191
Total dissolved solids	mg/L (Note 2)	Quarterly	1	250
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.3
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	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	440
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	10
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	20
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.01
pH	pH	Quarterly	1	8.7
Potassium	mg/L (Note 2)	Quarterly	1	8.2
Redox potential	mV (Note 4)	Quarterly	1	(+)167
Total dissolved solids	mg/L (Note 2)	Quarterly	1	250
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.6
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) Holding pond - no discharge from site.		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10). Please refer to Note 5 also.		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	1400
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	6.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	6.7
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	97
Redox potential	mV (Note 4)	Quarterly	1	(+)189
Total dissolved solids	mg/L (Note 2)	Quarterly	1	930
Total organic carbon	mg/L (Note 2)	Quarterly	1	63
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) (Note 5) This monitoring point is a holding pond with no discharge from site			

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	Value
Biochemical oxygen demand	mg/L (Note 2)	Quarterly	1	<2
Conductivity	µS/cm (Note 1)	Quarterly	1	370
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	11
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	20
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.05
pH	pH	Quarterly	1	8.8
Potassium	mg/L (Note 2)	Quarterly	1	5.8
Redox potential	mV (Note 4)	Quarterly	1	(+)173
Total dissolved solids	mg/L (Note 2)	Quarterly	1	200
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 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	Value
Biochemical oxygen demand	mg/L (Note 2)	Quarterly	1	<2
Conductivity	µS/cm (Note 1)	Quarterly	1	240
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.4
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	<100
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	8.4
Redox potential	mV (Note 4)	Quarterly	1	(+)218
Total dissolved solids	mg/L (Note 2)	Quarterly	1	140
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 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	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	80
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.7
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	10
Redox potential	mV (Note 4)	Quarterly	1	(+)142
Total dissolved solids	mg/L (Note 2)	Quarterly	1	270
Total organic carbon	mg/L (Note 2)	Quarterly	1	10
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	Value
Biochemical oxygen demand	mg/L (Note 2)	Quarterly	1	24
Conductivity	µS/cm (Note 1)	Quarterly	1	960
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	0.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	12000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	5.6
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	87
Redox potential	mV (Note 4)	Quarterly	1	(+)150
Total dissolved solids	mg/L (Note 2)	Quarterly	1	640
Total organic carbon	mg/L (Note 2)	Quarterly	1	45
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	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	540
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.97
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	16
Redox potential	mV (Note 4)	Quarterly	1	(+)185
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 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	Value
Biochemical oxygen demand	mg/L (Note 1)	Quarterly	1	<2
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			



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	44
Calcium	mg/L (Note 1)	Quarterly	1	7.5
Chloride	mg/L (Note 1)	Quarterly	1	96
Magnesium	mg/L (Note 1)	Quarterly	1	8.8
Nitrogen	mg/L (Note 1)	Quarterly	1	0.28
pH	pH	Quarterly	1	5.9
Potassium	mg/L (Note 1)	Quarterly	1	1.8
Sodium	mg/L (Note 1)	Quarterly	1	41
Standing Water Level	metres	Quarterly	1	17.2
Sulfate	mg/L (Note 1)	Quarterly	1	<2
Total dissolved solids	mg/L (Note 1)	Quarterly	1	230
Total organic carbon	mg/L (Note 1)	Quarterly	1	8.1
Aluminium	mg/L (Note 1)	Yearly	1	0.13
Arsenic	mg/L (Note 1)	Yearly	1	<0.005
Barium	mg/L (Note 1)	Yearly	1	0.099
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.005
Cobalt	mg/L (Note 1)	Yearly	1	0.014
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	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.012
Manganese	mg/L (Note 1)	Yearly	1	0.85
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	<0.5
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.002
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.4
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.01
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.072
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	34
Calcium	mg/L (Note 1)	Quarterly	1	4.1
Chloride	mg/L (Note 1)	Quarterly	1	72
Magnesium	mg/L (Note 1)	Quarterly	1	7.3
Nitrogen	mg/L (Note 1)	Quarterly	1	0.1
pH	pH	Quarterly	1	5.8
Potassium	mg/L (Note 1)	Quarterly	1	2.2
Sodium	mg/L (Note 1)	Quarterly	1	39
Standing Water Level	metres	Quarterly	1	6.84
Sulfate	mg/L (Note 1)	Quarterly	1	7
Total dissolved solids	mg/L (Note 1)	Quarterly	1	220
Total organic carbon	mg/L (Note 1)	Quarterly	1	12
Aluminium	mg/L (Note 1)	Yearly	1	0.15
Arsenic	mg/L (Note 1)	Yearly	1	<0.005
Barium	mg/L (Note 1)	Yearly	1	0.058
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.005
Cobalt	mg/L (Note 1)	Yearly	1	0.006
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	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.008
Manganese	mg/L (Note 1)	Yearly	1	0.63
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	<0.5
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.002
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.3
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.01
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.012
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	81
Calcium	mg/L (Note 1)	Quarterly	1	16
Chloride	mg/L (Note 1)	Quarterly	1	240
Magnesium	mg/L (Note 1)	Quarterly	1	24
Nitrogen	mg/L (Note 1)	Quarterly	1	46
pH	pH	Quarterly	1	6.3
Potassium	mg/L (Note 1)	Quarterly	1	42
Sodium	mg/L (Note 1)	Quarterly	1	130
Standing Water Level	metres	Quarterly	1	14.6
Sulfate	mg/L (Note 1)	Quarterly	1	3.5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	680
Total organic carbon	mg/L (Note 1)	Quarterly	1	35
Aluminium	mg/L (Note 1)	Yearly	1	<0.05
Arsenic	mg/L (Note 1)	Yearly	1	<0.005
Barium	mg/L (Note 1)	Yearly	1	1.1
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.005
Cobalt	mg/L (Note 1)	Yearly	1	0.011
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	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.01
Manganese	mg/L (Note 1)	Yearly	1	9.8
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	<0.5
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.002
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.5
Total Phenolics	mg/L (Note 1)	Yearly	1	0.03
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.23
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	24
Calcium	mg/L (Note 1)	Quarterly	1	6.5
Chloride	mg/L (Note 1)	Quarterly	1	38
Magnesium	mg/L (Note 1)	Quarterly	1	3.3
Nitrogen	mg/L (Note 1)	Quarterly	1	0.91
pH	pH	Quarterly	1	5.9
Potassium	mg/L (Note 1)	Quarterly	1	5.9
Sodium	mg/L (Note 1)	Quarterly	1	19
Standing Water Level	metres	Quarterly	1	3.07
Sulfate	mg/L (Note 1)	Quarterly	1	2.4
Total dissolved solids	mg/L (Note 1)	Quarterly	1	170
Total organic carbon	mg/L (Note 1)	Quarterly	1	26
Aluminium	mg/L (Note 1)	Yearly	1	1.2
Arsenic	mg/L (Note 1)	Yearly	1	<0.005
Barium	mg/L (Note 1)	Yearly	1	0.025
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.005
Cobalt	mg/L (Note 1)	Yearly	1	<0.005
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	<0.1
Lead	mg/L (Note 1)	Yearly	1	<0.005
Manganese	mg/L (Note 1)	Yearly	1	0.073
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	<0.5
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.002
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	0.03
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 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	36
Calcium	mg/L (Note 1)	Quarterly	1	2.2
Chloride	mg/L (Note 1)	Quarterly	1	36
Magnesium	mg/L (Note 1)	Quarterly	1	4.4
Nitrogen	mg/L (Note 1)	Quarterly	1	0.07
pH	pH	Quarterly	1	6
Potassium	mg/L (Note 1)	Quarterly	1	1
Sodium	mg/L (Note 1)	Quarterly	1	21
Standing Water Level	metres	Quarterly	1	21.55
Sulfate	mg/L (Note 1)	Quarterly	1	<2
Total dissolved solids	mg/L (Note 1)	Quarterly	1	130
Total organic carbon	mg/L (Note 1)	Quarterly	1	26
Aluminium	mg/L (Note 1)	Yearly	1	0.12
Arsenic	mg/L (Note 1)	Yearly	1	0.009
Barium	mg/L (Note 1)	Yearly	1	0.14
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.005
Cobalt	mg/L (Note 1)	Yearly	1	<0.005
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	<0.1
Lead	mg/L (Note 1)	Yearly	1	<0.005
Manganese	mg/L (Note 1)	Yearly	1	0.53
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	<0.5
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.002
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.01
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.03
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

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 year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Yearly	1	2700
Aluminium	mg/L (Note 1)	Yearly	1	0.35
Arsenic	mg/L (Note 1)	Yearly	1	0.15
Barium	mg/L (Note 1)	Yearly	1	0.93
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0005
Calcium	mg/L (Note 1)	Yearly	1	160
Chloride	mg/L (Note 1)	Yearly	1	590
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.15
Cobalt	mg/L (Note 1)	Yearly	1	0.008
Conductivity	µS/cm (Note 2)	Yearly	1	6300
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	0.3
Lead	mg/L (Note 1)	Yearly	1	<0.005
Magnesium	mg/L (Note 1)	Yearly	1	70
Manganese	mg/L (Note 1)	Yearly	1	0.2
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	2.6
Nitrogen (ammonia)	mg/L (Note 1)	Yearly	1	480
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.002
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH	Yearly	1	7.3
Phosphate	mg/L (Note 1)	Yearly	1	0.18
Phosphorous (total)	mg/L (Note 1)	Yearly	1	0.6
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	0.003
Potassium	mg/L (Note 1)	Yearly	1	210
Sodium	mg/L (Note 1)	Yearly	1	380
Standing Water Level	metres	Yearly	1	in situ
Sulfate	mg/L (Note 1)	Yearly	1	13
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Yearly	1	2700
Total organic carbon	mg/L (Note 1)	Yearly	1	380
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	5.2
Total Phenolics	mg/L (Note 1)	Yearly	1	0.47
Total Suspended Solids	mg/L (Note 1)	Yearly	1	29
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.04
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) µS/cm (microsiemens per centimetre) (Note 3) This monitoring point is a leachate holding riser with no discharge from site.			