

Monthly Summary of EPA Monitoring Data



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Monitoring Period	01 March 2015 - 31 March 2015						
Date Published	14 April 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	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	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	3	< 2	8.9	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	2	0.04	< 0.05	1	no
pH	pH	Daily during any discharge	2	6.7	7.0	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	2	26	260	50	yes (Note 3)
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) Refer to Exceedance Table for more information						

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	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	2	5	8.8	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.34	0.34	1	no
pH	pH	Daily during any discharge	1	7.1	7.1	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	160	160	50	yes (Note 3)
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) Refer to Exceedance Table for more 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)	1	5	5	20	no
Explanatory Notes		(Note 1) mg/L (milligrams per litre) 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)	9	< 2	8.3	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	7	< 0.05	0.1	1	no
pH	pH	Daily during any discharge	7	6.6	8.4	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	7	5	38	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 continued.

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	790	808.6	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

Exceedance Table



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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	100 percentile limit	Exceedance Date	Value	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	25/03/2015	260	15
Exceedance Information	While the 5 day cumulative rainfall at the time of this exceedance did not reach 62.1 mm (EPL 13091 L2.1) it did reach 26.5 mm. Erosion & sediment control activities continue to be carried out on both a routine and continual improvement basis as per recent correspondence with the EPA.					
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)					
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	25/03/2015	160	15
Exceedance Information	While the 5 day cumulative rainfall at the time of this exceedance did not reach 62.1 mm (EPL 13091 L2.1) it did reach 26.5 mm. Erosion & sediment control activities continue to be carried out on both a routine and continual improvement basis as per recent correspondence with the EPA.					
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)					

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Date Published	14 April 2015						
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EPA Licence Hyperlink	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091						
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	2	343	383	383	423
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	1	667	667	667	667
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)	<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	7	351	447	419	550
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 22)	<i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises.</i>						
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)	210.3	215.0	222.0
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) System shutdown on 2 Mar 15 for 5.0 hrs due to flame failure. Contractor had to come to site to restart. System shutdown on 18 Mar 15 for 5.0 hrs due to power supply outage. Contractor had come to site to restart.						

Quarterly + Yearly Summary of EPA Monitoring Data



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Monitoring Period	December 2014 - March 2015 (Quarterly) + March 2014 - March 2015 (Yearly)			
Date Published	14 April 2015			
EPA Licence No.	13091			
EPA Licence Hyperlink	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOELicence.aspx?DOCID=30667&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.	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 4)</i>			
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 2)	yearly	1	2900
Aluminium	mg/L (Note 2)	yearly	1	0.38
Arsenic	mg/L (Note 2)	yearly	1	0.068
Barium	mg/L (Note 2)	yearly	1	0.86
Benzene	mg/L (Note 2)	yearly	1	< 0.02
Cadmium	mg/L (Note 2)	yearly	1	< 0.0002
Calcium	mg/L (Note 2)	yearly	1	170
Chloride	mg/L (Note 2)	yearly	1	640
Chromium (hexavalent)	mg/L (Note 2)	yearly	1	< 0.01
Chromium (total)	mg/L (Note 2)	yearly	1	0.12
Cobalt	mg/L (Note 2)	yearly	1	0.009
Conductivity	mg/L (Note 2)	yearly	1	6800
Copper	mg/L (Note 2)	yearly	1	0.003
Ethylbenzene	mg/L (Note 2)	yearly	1	< 0.02
Fluoride	mg/L (Note 2)	yearly	1	< 0.5
Lead	mg/L (Note 2)	yearly	1	0.004
Magnesium	mg/L (Note 2)	yearly	1	73
Manganese	mg/L (Note 2)	yearly	1	0.25
Mercury	mg/L (Note 2)	yearly	1	< 0.0001
Nitrate + Nitrite (oxidised nitrogen)	mg/L (Note 2)	yearly	1	< 0.5
Nitrogen (Ammonia)	mg/L (Note 2)	yearly	1	480.00
Organochlorine pesticides OCP's	mg/L (Note 2)	yearly	1	< 0.001
Organophosphate pesticides OP's	mg/L (Note 2)	yearly	1	< 0.002
Ortho phosphate	mg/L (Note 2)	yearly	1	0.38
pH	mg/L (Note 2)	yearly	1	7.70
Phosphorus (total)	mg/L (Note 2)	yearly	1	0.70
Polycyclic aromatic hydrocarbons PAHs	mg/L (Note 2)	yearly	1	0.002
Potassium	mg/L (Note 2)	yearly	1	220.00
Sodium	mg/L (Note 2)	yearly	1	420.00
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 2)	yearly	1	30
Toluene	mg/L (Note 2)	yearly	1	< 0.02
Total Dissolved Solids - TDS	mg/L (Note 2)	yearly	1	3000
Total Organic Carbon - TOC	mg/L (Note 2)	yearly	1	440
Total Petroleum Hydrocarbons - TPH	mg/L (Note 2)	yearly	1	5.4
Total Phenolics	mg/L (Note 2)	yearly	1	0.47
Total Suspended Solids	mg/L (Note 2)	yearly	1	26
Xylene	mg/L (Note 2)	yearly	1	< 0.06
Zinc	mg/L (Note 2)	yearly	1	0.024
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.			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	520
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
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	1.9
Redox potential	mV (Note 4)	Quarterly	1	(+) 310
Total dissolved solids	mg/L (Note 2)	Quarterly	1	270
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 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	310
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	240
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.15
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	3.4
Redox potential	mV (Note 4)	Quarterly	1	(+) 300
Total dissolved solids	mg/L (Note 2)	Quarterly	1	180
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 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	490
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1500
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.1
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	8
Redox potential	mV (Note 4)	Quarterly	1	(+) 290
Total dissolved solids	mg/L (Note 2)	Quarterly	1	300
Total organic carbon	mg/L (Note 2)	Quarterly	1	12
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 continued

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	540
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	3000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.1
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	12
Redox potential	mV (Note 4)	Quarterly	1	(+) 300
Total dissolved solids	mg/L (Note 2)	Quarterly	1	330
Total organic carbon	mg/L (Note 2)	Quarterly	1	15
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	470
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	2800
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.19
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	10
Redox potential	mV (Note 4)	Quarterly	1	(+) 410
Total dissolved solids	mg/L (Note 2)	Quarterly	1	290
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 10)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10). Please refer to Note 5 also.		
<i>Holding pond - no discharge from site.</i>				
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	4700
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	5.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	~9
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	240
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	180
Redox potential	mV (Note 4)	Quarterly	1	(+) 170
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2100
Total organic carbon	mg/L (Note 2)	Quarterly	1	150
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			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	< 5
Conductivity	µS/cm (Note 1)	Quarterly	1	370
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.5
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	2500
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.09
pH	pH	Quarterly	1	7.8
Potassium	mg/L (Note 2)	Quarterly	1	7.3
Redox potential	mV (Note 4)	Quarterly	1	(+) 430
Total dissolved solids	mg/L (Note 2)	Quarterly	1	220
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 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	< 5
Conductivity	µS/cm (Note 1)	Quarterly	1	1100
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	660
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	1.8
pH	pH	Quarterly	1	8.4
Potassium	mg/L (Note 2)	Quarterly	1	55
Redox potential	mV (Note 4)	Quarterly	1	(+) 250
Total dissolved solids	mg/L (Note 2)	Quarterly	1	590
Total organic carbon	mg/L (Note 2)	Quarterly	1	32
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	400
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	2100
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.63
pH	pH	Quarterly	1	7.2
Potassium	mg/L (Note 2)	Quarterly	1	6.6
Redox potential	mV (Note 4)	Quarterly	1	(+) 440
Total dissolved solids	mg/L (Note 2)	Quarterly	1	240
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.2
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)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	5
Conductivity	µS/cm (Note 1)	Quarterly	1	1600
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.4
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	6900
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.49
pH	pH	Quarterly	1	7.8
Potassium	mg/L (Note 2)	Quarterly	1	400
Redox potential	mV (Note 4)	Quarterly	1	(+) 370
Total dissolved solids	mg/L (Note 2)	Quarterly	1	1000
Total organic carbon	mg/L (Note 2)	Quarterly	1	80
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	510
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	3500
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	1.2
pH	pH	Quarterly	1	7.2
Potassium	mg/L (Note 2)	Quarterly	1	17
Redox potential	mV (Note 4)	Quarterly	1	(+) 430
Total dissolved solids	mg/L (Note 2)	Quarterly	1	280
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)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	33
Calcium	mg/L (Note 1)	Quarterly	1	3.2
Chloride	mg/L (Note 1)	Quarterly	1	91
Magnesium	mg/L (Note 1)	Quarterly	1	9.1
Nitrogen	mg/L (Note 1)	Quarterly	1	0.04
pH	pH	Quarterly	1	6
Potassium	mg/L (Note 1)	Quarterly	1	1.3
Sodium	mg/L (Note 1)	Quarterly	1	44
Standing Water Level (TOC)	metres	Quarterly	1	17.3
Standing Water Level (m AHD)	metres	NA	NA	99.085
Sulfate	mg/L (Note 1)	Quarterly	1	< 5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	210
Total organic carbon	mg/L (Note 1)	Quarterly	1	< 5
Aluminium	mg/L (Note 1)	Yearly	1	0.14
Arsenic	mg/L (Note 1)	Yearly	1	< 0.001
Barium	mg/L (Note 1)	Yearly	1	0.1
Benzene	mg/L (Note 1)	Yearly	1	< 0.001
Cadmium	mg/L (Note 1)	Yearly	1	< 0.0002
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	0.012
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	0.011
Manganese	mg/L (Note 1)	Yearly	1	0.89
Mercury	mg/L (Note 1)	Yearly	1	< 0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	0.14
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	< 0.001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	< 0.002
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	< 0.001
Toluene	mg/L (Note 1)	Yearly	1	0.048
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	0.026
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	26
Calcium	mg/L (Note 1)	Quarterly	1	3.8
Chloride	mg/L (Note 1)	Quarterly	1	74
Magnesium	mg/L (Note 1)	Quarterly	1	9.4
Nitrogen	mg/L (Note 1)	Quarterly	1	0.11
pH	pH	Quarterly	1	6.2
Potassium	mg/L (Note 1)	Quarterly	1	2.5
Sodium	mg/L (Note 1)	Quarterly	1	47
Standing Water Level (below TOC)	metres	Quarterly	1	6.43
Standing Water Level (AHD)	metres	NA	NA	63.186
Sulfate	mg/L (Note 1)	Quarterly	1	12
Total dissolved solids	mg/L (Note 1)	Quarterly	1	220
Total organic carbon	mg/L (Note 1)	Quarterly	1	< 5
Aluminium	mg/L (Note 1)	Yearly	1	0.33
Arsenic	mg/L (Note 1)	Yearly	1	0.001
Barium	mg/L (Note 1)	Yearly	1	0.06
Benzene	mg/L (Note 1)	Yearly	1	< 0.001
Cadmium	mg/L (Note 1)	Yearly	1	< 0.0002
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	0.007
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	0.011
Manganese	mg/L (Note 1)	Yearly	1	1
Mercury	mg/L (Note 1)	Yearly	1	< 0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	0.1
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	< 0.001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	< 0.002
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	< 0.001
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	< 0.05
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)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	370
Calcium	mg/L (Note 1)	Quarterly	1	16
Chloride	mg/L (Note 1)	Quarterly	1	230
Magnesium	mg/L (Note 1)	Quarterly	1	23
Nitrogen	mg/L (Note 1)	Quarterly	1	44
pH	pH	Quarterly	1	7
Potassium	mg/L (Note 1)	Quarterly	1	39
Sodium	mg/L (Note 1)	Quarterly	1	130
Standing Water Level (Below TOC)	metres	Quarterly	1	15.14
Standing Water Level (AHD)	metres	NA	NA	80.025
Sulfate	mg/L (Note 1)	Quarterly	1	< 5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	600
Total organic carbon	mg/L (Note 1)	Quarterly	1	23
Aluminium	mg/L (Note 1)	Yearly	1	0.1
Arsenic	mg/L (Note 1)	Yearly	1	< 0.001
Barium	mg/L (Note 1)	Yearly	1	0.97
Benzene	mg/L (Note 1)	Yearly	1	< 0.001
Cadmium	mg/L (Note 1)	Yearly	1	< 0.0002
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	0.011
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	0.011
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	0.11
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	< 0.001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	< 0.002
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	< 0.001
Toluene	mg/L (Note 1)	Yearly	1	0.009
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	< 0.003
Zinc	mg/L (Note 1)	Yearly	1	0.031
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	21
Calcium	mg/L (Note 1)	Quarterly	1	11
Chloride	mg/L (Note 1)	Quarterly	1	34
Magnesium	mg/L (Note 1)	Quarterly	1	6
Nitrogen	mg/L (Note 1)	Quarterly	1	1.3
pH	pH	Quarterly	1	6.2
Potassium	mg/L (Note 1)	Quarterly	1	17
Sodium	mg/L (Note 1)	Quarterly	1	36
Standing Water Level (below TOC)	metres	Quarterly	1	3.19
Standing Water Level (above AHD)	metres	NA	NA	61.775
Sulfate	mg/L (Note 1)	Quarterly	1	< 5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	270
Total organic carbon	mg/L (Note 1)	Quarterly	1	5.9
Aluminium	mg/L (Note 1)	Yearly	1	1.1
Arsenic	mg/L (Note 1)	Yearly	1	0.002
Barium	mg/L (Note 1)	Yearly	1	0.03
Benzene	mg/L (Note 1)	Yearly	1	< 0.001
Cadmium	mg/L (Note 1)	Yearly	1	< 0.0002
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	< 0.01
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	0.011
Manganese	mg/L (Note 1)	Yearly	1	0.068
Mercury	mg/L (Note 1)	Yearly	1	< 0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	0.12
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	< 0.001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	< 0.002
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	< 0.001
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	< 0.05
Xylene	mg/L (Note 1)	Yearly	1	< 0.003
Zinc	mg/L (Note 1)	Yearly	1	0.018
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly + Yearly Summary of EPA Monitoring Data continued

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	31
Calcium	mg/L (Note 1)	Quarterly	1	2.4
Chloride	mg/L (Note 1)	Quarterly	1	39
Magnesium	mg/L (Note 1)	Quarterly	1	4.7
Nitrogen	mg/L (Note 1)	Quarterly	1	< 0.01
pH	pH	Quarterly	1	6.3
Potassium	mg/L (Note 1)	Quarterly	1	1.1
Sodium	mg/L (Note 1)	Quarterly	1	23
Standing Water Level (below TOC)	metres	Quarterly	1	21.55
Sulfate	mg/L (Note 1)	Quarterly	1	< 5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	130
Total organic carbon	mg/L (Note 1)	Quarterly	1	15
Aluminium	mg/L (Note 1)	Yearly	1	0.64
Arsenic	mg/L (Note 1)	Yearly	1	0.006
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
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	0.002
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	0.005
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	0.13
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	< 0.001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	< 0.002
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	< 0.001
Toluene	mg/L (Note 1)	Yearly	1	0.11
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.16
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	0.051
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	Value
Biochemical oxygen demand	mg/L (Note 1)	Quarterly	1	< 5
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			