

Environment Protection Licence



Licence - 10243

Licence Details

Number:	10243
Anniversary Date:	30-June

Licensee

SYDNEY OLYMPIC PARK AUTHORITY
 LOCKED BAG 3, SYDNEY OLYMPIC PARK
 HOMEBUSH BAY NSW 2127

Premises

SYDNEY OLYMPIC PARK (WETLANDS TREATMENT SYSTEMS)
 OFF NEWINGTON ROAD
 SILVERWATER NSW 2128

Scheduled Activity

N/A

Fee Based Activity

Scale

Miscellaneous licensed discharge to waters (at any time)	0-20 ML discharged
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Region

Metropolitan Infrastructure
 Level 13, 10 Valentine Ave
 PARRAMATTA NSW 2150
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 NSW 2124

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SYDNEY OLYMPIC PARK AUTHORITY

LOCKED BAG 3, SYDNEY OLYMPIC PARK
--

HOME BUSH BAY NSW 2127

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence regulates water pollution resulting from the activity/ies specified below carried out at the premises specified in A2.

<u>Fee Based Activity</u>	<u>Scale</u>
Miscellaneous licensed discharge to waters (at any time)	0-20 ML discharged

A1.2 This licence authorises full operation of the area known as the Wilson Park Wetland (marked as 'Treatment Pond No. 1,' 'Treatment Pond No. 2,' 'Overland bypass pipe,' 'Overflow storage pond No. 3', 'Shared discharge line' and associated pipework marked in yellow shown on drawing 'Sydney Olympic Park Wilson Park Leachate System' and numbered 085-G-G-0008 REV. C, EPA electronic document number DOC14/10061) in accordance with the conditions contained within the licence.

A1.3 This licence authorises restricted operation of the area known as the Blaxland Sustainable Leachate Treatment Wetlands (marked as 'Balance Tank,' 'Vertical Flow Wetlands,' 'Treatment Pond BLAX 1,' 'Treatment Pond BLAX 2,' 'Overland bypass pipe,' 'Emergency backup,' 'Overflow storage pond No. 3,' 'Shared discharge line,' and associated pipework marked in blue shown on drawing 'Sydney Olympic Park Wilson Park Leachate System' and numbered 085-G-G-0008 REV. C, EPA electronic document number DOC14/10061) to enable a Proof of Performance Trial, as detailed in the Table below, and in accordance with conditions contained within the licence.

Proof of Performance Trial Stage and Description	Details and general requirements
Stage 1	<p>This stage permits: Up to a maximum of 1 kL/day of leachate may be introduced into the Blaxland Sustainable Leachate Treatment Wetlands. Sampling must be undertaken after one week of operation (as per sampling requirements within this Licence) (Sample 1A). Discharge from the Wetland to Parramatta River must only be permitted once Sample 1A results confirm compliance with licence limits.</p>
	<p>For the avoidance of doubt, no discharge is permitted from the Blaxland Sustainable Leachate Treatment Wetlands to Parramatta River until sampling results are received that confirm compliance with all requirements and limits of this Licence. Additional sampling is required to confirm compliance with Limits prior to discharge if Sample 1A results indicate non-compliance with any pollutant limit in this Licence.</p>
	<p>A second sample (Sample 1B) must be taken a minimum of one week after discharge has begun. Leachate introduction must only progress to Stage 2 of the Proof of Performance Trial only after results of analysis of Sample 1A and Sample 1B (and any additional samples taken) are received and compliance with all requirements and limits of this Licence is confirmed.</p>

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<p>Stage 2</p>	<p>This stage permits: Up to a maximum of 2 kL/day of leachate may be introduced into the Blaxland Sustainable Leachate Treatment Wetlands. Sampling must be undertaken after one week of operation at Stage 2 (as per sampling requirements within this Licence) (Sample 2A). Discharge from the Wetland to Parramatta River must only be permitted once Sample 2A results confirm compliance with licence limits.</p>
	<p>For the avoidance of doubt, no discharge is permitted from the Blaxland Sustainable Leachate Treatment Wetlands to Parramatta River until sampling results are received that confirm compliance with all requirements and limits of this Licence. Additional sampling is required to confirm compliance with Limits prior to discharge if Sample 2A results indicate non-compliance with any pollutant limit in this Licence.</p>
	<p>A second sample (Sample 2B) must be taken a minimum of one week after discharge has begun. Leachate introduction must only progress to Stage 3 of the Proof of Performance Trial only after results of analysis of Sample 2A and Sample 2B (and any additional samples taken) are received and compliance with all requirements and limits of this Licence is confirmed.</p>
<p>Stage 3</p>	<p>This stage permits: Up to a maximum of 5 kL/day of leachate may be introduced into the Blaxland Sustainable Leachate Treatment Wetlands. Sampling must be undertaken after one week of operation at Stage 3 (as per sampling requirements within this Licence) (Sample 3A). Discharge from the Wetland to Parramatta River must only be permitted once Sample 3A results confirm compliance with licence limits.</p>
	<p>For the avoidance of doubt, no discharge is permitted from the Blaxland Sustainable Leachate Treatment Wetlands to Parramatta River until sampling results are received that confirm compliance with all requirements and limits of this Licence. Additional sampling is required to confirm compliance with Limits prior to discharge if Sample 3A results indicate non-compliance with any pollutant limit in this Licence.</p>
	<p>A second sample (Sample 3B) must be taken a minimum of one week after discharge has begun. Leachate introduction must only progress to Stage 4 of the Proof of Performance Trial only after results of analysis of Sample 3A and Sample 3B (and any additional samples taken) are received and compliance with all requirements and limits of this Licence is confirmed.</p>
<p>Stage 4</p>	<p>The Proof of Performance Trial may progress to Stage 4 only once sampling results for Stage 3 confirm compliance with all limits and requirements of this Licence. Stage 4 consists of a gradual leachate introduction strategy, whereby leachate volumes are increased approximately fortnightly at a rate of 2kL/day subject to compliance with licence conditions.</p>
	<p>Leachate within Stage 4 is permitted to be released to the Parramatta River prior to receipt of sampling results to prevent build up of salts in the Blaxland Sustainable Leachate Treatment Wetlands system, however discharges from the Wetland must cease immediately should any sample results indicate non-compliance with limits prescribed in this licence.</p>
	<p>Discharge from the Wetland must only recommence once a further round of testing demonstrates that licence limits have been met and the EPA has been advised in writing and provided with these test results.</p>
<p>Stage 4a</p>	<p>This stage permits: Up to a maximum of 6kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4a (Sample 4A). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4b.</p>

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Stage 4b	<p>This stage permits: Up to a maximum of 8kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4b (Sample 4B). If sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4c.</p>
Stage 4c	<p>This stage permits: Up to a maximum of 10kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4c (Sample 4C). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4d.</p>
Stage 4d	<p>This stage permits: Up to a maximum of 12kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4d (Sample 4D). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4e.</p>
Stage 4e	<p>This stage permits: Up to a maximum of 14kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4e (Sample 4E). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4f.</p>
Stage 4f	<p>This stage permits: Up to a maximum of 16kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4f (Sample 4F). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4g.</p>
Stage 4g	<p>This stage permits: Up to a maximum of 18kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4g (Sample 4G). Once sampling results confirm compliance with all requirements and limits of the Licence, the Proof of Performance Trial may progress to Stage 4h.</p>
Stage 4h	<p>This stage permits: Up to a maximum of 20kL/day of leachate may be introduced to the Blaxland Sustainable Leachate Treatment Wetlands. Leachate may be discharged to the Parramatta River prior to receipt of sampling results to prevent salt build up in the Wetland. Sampling must be undertaken after three days of operation at Stage 4h (Sample 4H).</p>

A1.4 Leachate volumes to the Blaxland Sustainable Leachate Treatment Wetlands are expected to vary over time. Whilst the Proof of Performance Trial must progress in the strict order required by condition A1.3,

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the Trial may end at any point, as dictated by availability of leachate.

A1.5 This Licence permits a maximum leachate introduction rate to the Blaxland Sustainable Leachate Treatment Wetlands of 20kL/day.

A1.6 Leachate collected from the Blaxland Common Landfill, rainfall and stormwater must be the only liquids permitted to enter the Blaxland Sustainable Leachate Treatment Wetlands.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SYDNEY OLYMPIC PARK (WETLANDS TREATMENT SYSTEMS)
OFF NEWINGTON ROAD
SILVERWATER
NSW 2128
THOSE AREAS OF THE SYDNEY OLYMPIC PARK PRECINCT (INCLUDING A CORNER OF ADJOINING CORRECTIONAL SERVICES LAND) ADJACENT TO THE PARRAMATTA RIVER AND BOUNDED BY A HEAVY RED LINE ON SYDNEY OLYMPIC PARK AUTHORITY DRAWING NUMBER 085-G-G-0007 REVISION E DATED 20 DECEMBER 2013.

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

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P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Treated leachate water quality monitoring point (Wilson Park Wetland leachate treatment system)		Outlet of discharge pipe located near south eastern corner of Wilson Park wetlands leachate treatment system 'Treatment Pond No.2' marked on drawing 'Sydney Olympic Park Wilson Park Leachate System', number 085-G-G-0008 REV. C, EPA doc no. DOC14/10061.
3	Treated leachate water quality monitoring point (Blaxland Sustainable Leachate Treatment Wetlands)		Pump well at outlet of discharge pipes located at northern end of Treatment Ponds BLAX1 and BLAX2 marked on drawing 'Sydney Olympic Park Wilson Park Leachate System', number 085-G-G-0008 REV. C, EPA document no. DOC14/10061.
4	Deemed discharge point for the purpose of assessing compliance with pollutant concentration limits prescribed for discharge point 5	Deemed discharge point for the purpose of assessing compliance with pollutant concentration limits prescribed for discharge point 5	Shared discharge pit located at northern end of the overflow storage pond marked on drawing 'Sydney Olympic Park Wilson Park Leachate System', number 085-G-G-0008 REV. C, EPA document no. DOC14/10061.
5		Discharge point to Parramatta River (for both the Wilson Park Wetland and Blaxland Sustainable Leachate Treatment Wetlands)	Outlet of the concrete pipe which conveys treated effluent discharged into the shared discharge pit (point 4) down to the southern bank of the Parramatta River marked on drawing 'Sydney Olympic Park Wilson Park Leachate System', number 085-G-G-0008 REV C

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

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- L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.
- L2.4 Water and/or Land Concentration Limits

POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre				0.5
BOD	milligrams per litre				50
Oil and Grease	milligrams per litre				10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50

POINT 3

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
1,2,3,4,6,7,8-Heptachlorodibenzofuran	picograms per kilogram				ND (10)
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	picograms per kilogram				ND (10)
1,2,3,4,7,8-Hexachlorodibenzofuran	picograms per kilogram				ND (5)

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2,2',3,3',4,4', 5,5',6,6'-Deca bromodiphen yl ether	nanograms per kilogram	ND (10)
2,2',3,3',4,4', 5,5',6-Nonabr omodiphenyl ether	nanograms per kilogram	ND (0.6)
2,2',3,3',4,4', 5,6,6'-Nonabr omodiphenyl ether	nanograms per kilogram	ND (0.6)
2,2',3,3',4,5,5 '6,6'-Nonabr omodiphenyl ether	nanograms per kilogram	ND (0.3)
Ammonia	micrograms per litre	910
Arsenic (III)	micrograms per litre	25
Arsenic (V)	micrograms per litre	45
Benzene	micrograms per litre	500
Bisphenol-A	micrograms per litre	31.5
BOD	milligrams per litre	50
Cadmium (dissolved)	micrograms per litre	0.7
Chromium (hexavalent)	micrograms per litre	4.4
Chromium (trivalent)	micrograms per litre	27.4
Cobalt (dissolved)	micrograms per litre	1
Copper (dissolved)	micrograms per litre	1.3
Cyanide (total)	micrograms per litre	4
Diphenylamin e	micrograms per litre	8

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Lead (dissolved)	micrograms per litre	4.4
Mercury (dissolved)	micrograms per litre	0.1
Methyl mercury	micrograms per litre	0.001
Molinate	micrograms per litre	3.4
Nickel (dissolved)	micrograms per litre	70
Octachloro-dibenzo-p-dioxin (OCDD)	picograms per kilogram	ND (100)
Oil and Grease	milligrams per litre	10
Perfluorobutane sulphonate (PFBS)	micrograms per litre	ND (0.02)
Perfluoroheptanoic acid (PFHpA)	micrograms per litre	ND (0.02)
Perfluorohexane sulphonate (PFHxS)	micrograms per litre	ND (0.02)
Perfluorohexanoic acid (PFHxA)	micrograms per litre	ND (0.02)
Perfluorooctane sulphonate (PFOS)	micrograms per litre	ND (0.02)
Perfluorooctanoic acid (PFOA)	micrograms per litre	ND (0.02)
pH	pH	6.5-8.5
Total Petroleum Hydrocarbons C10-C14 Fraction	micrograms per litre	50

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Total Petroleum Hydrocarbons C15-C28 Fraction	micrograms per litre	100
Total Petroleum Hydrocarbons C6-C9 Fraction	micrograms per litre	20
Total suspended solids	milligrams per litre	25
Zinc (dissolved)	micrograms per litre	150

- L2.5 Where a concentration limit is denoted 'ND' in condition L2.4, concentrations must not be detected above the laboratory limit of reporting. The limit of reporting for a particular pollutant must be less than the number provided in brackets in the '100 percentile limit' column of the table. In conducting any analysis, the most sensitive method available must be used, and with a goal of achieving the lowest limit of reporting possible. The Licensee must provide justification for the limit of reporting used in any analysis if requested to do so by the EPA.
- L2.6 Concentration limits in condition L2.4 will be reviewed by the EPA following Proof of Performance Trials and modified for the ongoing operation of the Blaxland Sustainable Leachate Treatment Wetlands if required.
- L2.7 A combined mass balance calculation is required to be completed for the Blaxland Sustainable Leachate Treatment Wetlands and Wilson Park Wetlands under Condition U3 of this Licence. Concentration limits may be applied to Points 4 and 5 of this Licence based on results of the combined mass balance calculation. Concentration limits for points 2 and 3 may be modified based on results of the combined mass balance calculation, or additional limits applied.

L3 Volume and mass limits

- L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- liquids discharged to water; or;
 - solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
2	kilolitres per day	300

L4 Potentially offensive odour

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L4.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Other operating conditions

O3.1 Operational management plan

The Licensee must develop an Operational Management Plan for the Blaxland Sustainable Leachate Treatment Wetlands within four weeks of commencing the Proof of Performance Trial required by condition A1.3. The Management Plan must contain procedures for operation of the Blaxland Sustainable Leachate Treatment Wetlands and contingency and response plans in order to comply with requirements of this Licence and prevent pollution. The Plan must be updated regularly.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and

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c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- the date(s) on which the sample was taken;
- the time(s) at which the sample was collected;
- the point at which the sample was taken; and
- the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Water and/ or Land Monitoring Requirements

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	12 Times a year	Grab sample
BOD	milligrams per litre	12 Times a year	Grab sample
Oil and Grease	milligrams per litre	12 Times a year	Grab sample
pH	pH	12 Times a year	Grab sample
Total suspended solids	milligrams per litre	12 Times a year	Grab sample

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
1,2,3,4,6,7,8-Heptachlorodibenzofuran	picograms per kilogram	Special Frequency 1	Grab sample
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	picograms per kilogram	Special Frequency 1	Grab sample
1,2,3,4,7,8-Hexachlorodibenzofuran	picograms per kilogram	Special Frequency 1	Grab sample
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether	nanograms per kilogram	Special Frequency 1	Grab sample
2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether	nanograms per kilogram	Special Frequency 1	Grab sample
2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether	nanograms per kilogram	Special Frequency 1	Grab sample

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2,2',3,3',4,5,5',6,6'-N onabromodiphenyl ether	nanograms per kilogram	Special Frequency 1	Grab sample
Ammonia	micrograms per litre	Special Frequency 1	Grab sample
Anions	milliequivalents per litre	Special Frequency 1	Grab sample
Arsenic (III)	micrograms per litre	Special Frequency 1	Grab sample
Arsenic (V)	micrograms per litre	Special Frequency 1	Grab sample
Benzene	micrograms per litre	Special Frequency 1	Grab sample
Bisphenol-A	micrograms per litre	Special Frequency 1	Grab sample
BOD	milligrams per litre	Special Frequency 1	Grab sample
Cadmium (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Cation	percent	Special Frequency 1	Grab sample
Cations	milliequivalents per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	micrograms per litre	Special Frequency 1	Grab sample
Chromium (trivalent)	micrograms per litre	Special Frequency 1	Grab sample
Cobalt (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Copper (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Cyanide (total)	micrograms per litre	Special Frequency 1	Grab sample
Diphenylamine	micrograms per litre	Special Frequency 1	Grab sample
Lead (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Mercury (dissolved)	micrograms per litre	Special Frequency 2	Grab sample
Methyl mercury	micrograms per litre	Special Frequency 2	Grab sample
Molinate	micrograms per litre	Special Frequency 1	Grab sample
Nickel (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Octachlorodibenzo-p -dioxin (OCDD)	picograms per kilogram	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
Perfluorobutane sulphonate (PFBS)	micrograms per litre	Special Frequency 1	Grab sample
Perfluoroheptanoic acid (PFHpA)	micrograms per litre	Special Frequency 1	Grab sample
Perfluorohexane sulphonate (PFHxS)	micrograms per litre	Special Frequency 1	Grab sample
Perfluorohexanoic acid (PFHxA)	micrograms per litre	Special Frequency 1	Grab sample
Perfluorooctane sulphonate (PFOS)	micrograms per litre	Special Frequency 1	Grab sample
Perfluorooctanoic acid (PFOA)	micrograms per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Total Petroleum Hydrocarbons C10-C14 Fraction	micrograms per litre	Special Frequency 1	Grab sample
Total Petroleum Hydrocarbons C15-C28 Fraction	micrograms per litre	Special Frequency 1	Grab sample
Total Petroleum Hydrocarbons C6-C9 Fraction	micrograms per litre	Special Frequency 1	Grab sample

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Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Zinc (dissolved)	micrograms per litre	Special Frequency 1	Grab sample

M2.3 For the purpose of condition M2.2, **Special Frequency 1** requires sampling to be completed at each Proof of Performance Stage, in accordance with Condition A1.3 of this licence. Sampling must also be undertaken at the maximum leachate flow rate established under Condition M6.4 of this Licence, as follows:

- a. Leachate must not be diluted with stormwater during sampling at the maximum leachate flow rate. If the leachate flow rate declines below the 'maximum flow rate' established under Condition M6.4 during the sampling period, sampling must cease ('pause') until the leachate flow rate increases to equal the 'maximum flow rate.' The volume of leachate introduced to the wetland if sampling is 'paused' must not exceed the leachate introduction rate permitted in previously 'proven' Stages of the Proof of Performance Trial. The remaining samples must be taken once the leachate flow rate increases to equal the 'maximum flow rate.' Where leachate is diluted with stormwater, the Licensee must ensure that an adequate period of time is allowed for this water to exit the Wetland system prior to recommencing sampling at the maximum flow rate.
- b. A minimum of three water samples must be taken at the maximum flow rate. Samples must be taken a minimum of two weeks apart.

For the purpose of condition M2.2, **Special Frequency 2** requires sampling to be completed at the maximum leachate flow rate established under Condition M6.4 of this Licence, as follows:

- a. Leachate must not be diluted with stormwater during sampling at the maximum leachate flow rate. If the leachate flow rate declines below the 'maximum flow rate' established under Condition M6.4 during the sampling period, sampling must cease ('pause') until the leachate flow rate increases to equal the 'maximum flow rate.' The volume of leachate introduced to the wetland if sampling is 'paused' must not exceed the leachate introduction rate permitted in previously 'proven' Stages of the Proof of Performance Trial. The remaining samples must be taken once the leachate flow rate increases to equal the 'maximum flow rate.' The remaining samples must then be taken. Where leachate is diluted with stormwater, the Licensee must ensure that an adequate period of time is allowed for this water to exit the Wetland system prior to recommencing sampling at the maximum flow rate.

The Licensee must undertake sampling as follows:

EITHER:

- A minimum of THREE water samples must be taken at the maximum flow rate. Samples must be taken a minimum of two weeks apart.
- Samples must be analysed for dissolved mercury. The laboratory limit of reporting for analysis must be equal to or less than 0.05 ug/L.
- If sampling results report dissolved mercury concentrations that exceed the laboratory limit of reporting, either an existing sample must be analysed for methyl mercury, or an additional sample must be taken and analysed for methyl mercury. The laboratory limit of reporting for methyl mercury analysis must be no greater than 0.001 ug/L.
- If methyl mercury is detected above the laboratory LOR in any sample, the Licensee must consult with the EPA regarding further sampling requirements or the need to take remedial action or suspend the Proof of Performance Trial.

OR:

- A minimum of TWO water samples must be taken at the maximum leachate flow rate. Samples must be

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taken a minimum of two weeks apart.

- Samples must be analysed for methyl mercury. The laboratory limit of reporting for analysis must be equal to or less than 0.001ug/L.
- If methyl mercury is detected above the laboratory LOR in any sample, the Licensee must consult with the EPA regarding further sampling requirements or the need to take remedial action or suspend the Proof of Performance Trial.

M3 Testing methods - concentration limits

- M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.
- M3.2 Samples taken pursuant to a requirement in this licence to monitor the volume, mass or concentration of pollutants, must be analysed and reported in accordance with the laboratory accreditation requirements set out in section 2.1.3 of the Load Calculation Protocol.

The Load Calculation Protocol is the Protocol referred to in clause 18 of the Protection of the Environment Operations (General) Regulation 1998. A copy of the Protocol was published in the Government Gazette on 25 June 1999 and can be purchased from the EPA or viewed at <http://www.epa.nsw.gov.au>.

M4 Recording of pollution complaints

- M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M4.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

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- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 The preceding two conditions do not apply until 3 months after:
- the date of the issue of this licence or
 - if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

- M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:
- the volume of liquids discharged to water or applied to the area;
 - the mass of solids applied to the area;
 - the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 2

Frequency	Unit of Measure	Sampling Method
Daily	kilolitres per day	Flow meter and continuous logger

POINT 3

Frequency	Unit of Measure	Sampling Method
Daily	kilolitres per day	Flow meter and continuous logger

- M6.2 **Leachate introduction flow rate monitoring**
The volume of leachate introduced to the Blaxland Sustainable Leachate Treatment Wetlands must be continuously monitored and recorded.
- M6.3 **Stormwater volume monitoring**
The volume of stormwater introduced into the Blaxland Sustainable Leachate Treatment Wetlands must be monitored and recorded using the SCADA telemetry system. The volume of stormwater added into the system must be either continuously monitored or calculated over the period of discharge at each Stage of the Proof of Performance Trial as per Condition A1.3.
- M6.4 **Maximum leachate flow rate**
The leachate flow rate into the Blaxland Sustainable Leachate Treatment Wetlands must be monitored, and a maximum leachate flow rate established. The maximum flow rate of the Wetland will be used to set the maximum leachate introduction rate permitted for ongoing operation.

6 Reporting Conditions

R1 Annual return documents

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- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
a) a Statement of Compliance; and
b) a Monitoring and Complaints Summary.
At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.
- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
a) the licence holder; or
b) by a person approved in writing by the EPA to sign on behalf of the licence holder.
- R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

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Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- where this licence applies to premises, an event has occurred at the premises; or
 - where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- the cause, time and duration of the event;
 - the type, volume and concentration of every pollutant discharged as a result of the event;
 - the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Other reporting conditions

R4.1 Analytical Reports

The licensee must provide a written report to the EPA detailing the results of analysis of samples required to be taken by a condition of this licence. The reports required by this condition must include –

- the time and date each sample was taken (and by whom),
- the EPA identification number of the monitoring or discharge point from which the sample was taken,
- the licence condition pursuant to which the sample was taken,

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- (d) the sample preservation measures adopted between the taking of the sample and delivery of the sample to the analytical laboratory,
- (e) the approved methods used to undertake each of the analyses, and
- (f) where symbols or abbreviations are used in analytical reports an explicit statement of the meaning of those symbols and abbreviations, other than an abbreviation used in the EPA's approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales", and
- (g) a copy of the relevant certificate of analysis from the laboratory that undertook that analysis.

R4.2 Water sampling results

The results of all water sampling required by this licence for the Blaxland Sustainable Leachate Treatment Wetlands Proof of Performance Trial must be prepared in accordance with Condition R4.1 and submitted to the EPA at the completion of each Proof of Performance Stage as set out in condition A1.3 within two business days of all results for that Stage being received, unless written approval is obtained from the EPA.

R4.3 Proof of Performance Trial Notification Reports

The Licensee must, throughout the Blaxland Sustainable Leachate Treatment Wetlands Proof of Performance Trial, submit Notification Reports to the EPA following an increase in the leachate introduction flow rate to the Wetland. The Notification Report must be submitted to the EPA within five business days of the increase in flow rate to the Wetlands. The Report must clearly identify licence requirements that have been met and any instances where licence requirements have not been complied with. Where licence requirements have not been met, or a non-compliance has occurred, the Notification Report must contain proposed measures to prevent the non-compliance or issue recurring. Leachate and stormwater volumes introduced to the Blaxland Sustainable Leachate Treatment Wetlands and the volume discharged from the Wetland must be provided. Any laboratory reports containing results of water sampling for the Blaxland Sustainable Leachate Treatment Wetlands that have not previously been provided to the EPA must be provided in accordance with Condition R4.1 of this Licence for the relevant Proof of Performance Trial Stage. The Notification Report must also include information regarding instances where monitoring results indicate that limits contained within Condition L2.4 of this Licence were exceeded in relation to Blaxland Sustainable Leachate Treatment Wetlands but no discharge has occurred.

R4.4 Discharge to cease immediately if limits exceeded

If a non-compliance with limits contained within Condition L2.4 of this Licence is detected in relation to the Blaxland Sustainable Leachate Treatment Wetlands operations, the Licensee must immediately ensure that any discharge to the Parramatta River ceases and notify the EPA immediately. Discharge to the Parramatta River may only recommence once a further round of testing has demonstrated that the licence limits have been met and the EPA has been advised in writing and provided with these testing results.

R4.5 Proof of Performance Trial – Final Report

The Licensee must notify the EPA in writing once the Blaxland Sustainable Leachate Treatment Wetlands Proof of Performance Trial is complete. The notification must include a proposal for ongoing operation of the Blaxland Sustainable Leachate Treatment Wetlands, including ongoing sampling and analysis requirements and limits; monitoring requirements; reporting requirements; and any other matters relevant to operation of the Wetland. A Licence Variation Application must be made if any changes to the Licence are proposed.

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R4.6 No Condition of this Licence alters notification requirements under Part 5.7 of the *Protection of the Environment Operations Act 1997*.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 Reducing pH level in discharge water

U1.1 (a) The licensee must implement the following mitigation method in treatment pond 2 by 1 December 2013:

Install floating macrophyte beds over approximately 40% of the pond's surface; and.

(b) The licensee must prepare and submit to the EPA for review a detailed report by the 1 December 2013. This report should (at minimum) include the following information:

- Detail what mitigation measures were implemented including timeframes;
- Report on the monitoring results since the mitigation measures have been implemented;
- Report on any monitoring result trends and/or changes resulting from the mitigation measures implementation, and
- List and discuss alternative solutions if the monitoring results still indicate high pH levels.

U2 Environmental Study - Blaxland Sustainable Leachate Treatment Wetlands Proof of Performance Trial Special Water Monitoring

U2.1 The Licensee is required to monitor the chemicals in the table below during the entire Proof of Performance Trial in order to establish the concentration of each chemical and trends in concentration. Monitoring results will be regularly reviewed by the EPA during the Trial and limits may be prescribed if required. Limits may also be prescribed for these chemicals for the ongoing operation of the Wetland.

For monitoring Point 3 the Licensee must monitor (by sampling and obtaining the results by analysis) the concentration of each 'chemical to be reviewed' specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency specified in the other columns:

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Chemical to be reviewed	Units of measure	Frequency	Sampling method
Aluminium (dissolved)	micrograms per litre	Special Frequency 3	Grab sample
Barium (dissolved)	micrograms per litre	Special Frequency 3	Grab sample
Calcium (dissolved)	milligrams per litre	Special Frequency 3	Grab sample
Manganese (dissolved)	micrograms per litre	Special Frequency 3	Grab sample
Magnesium (dissolved)	milligrams per litre	Special Frequency 3	Grab sample
Orthophosphate	micrograms per litre	Special Frequency 3	Grab sample
Oxidised nitrogen	milligrams per litre	Special Frequency 3	Grab sample
Potassium (dissolved)	milligrams per litre	Special Frequency 3	Grab sample
Sodium (dissolved)	micrograms per litre	Special Frequency 3	Grab sample
Chloride	milligrams per litre	Special Frequency 3	Grab sample
Bicarbonate	milligrams per litre	Special Frequency 3	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 3	Grab sample
Dissolved solids (total)	milligrams per litre	Special Frequency 3	Grab sample
Sulphate	milligrams per litre	Special Frequency 3	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 3	Grab sample
Fluoride	milligrams per litre	Special Frequency 3	Grab sample

U2.2 For the purpose of the table in Condition U2.1, **Special Frequency 3** requires sampling to be completed at each Proof of Performance Stage, in accordance with Condition A1.3 of this licence. Sampling must also be undertaken at the maximum leachate flow rate established under Condition M6.4 of this Licence, as follows:

a. Leachate must not be diluted with stormwater during sampling at the maximum leachate flow rate. If the leachate flow rate declines below the 'maximum flow rate' established under Condition M6.4 during the sampling period, sampling must cease ('pause') until the leachate flow rate increases to equal the 'maximum flow rate.' The volume of leachate introduced to the wetland if sampling is 'paused' must not exceed the leachate introduction rate permitted in previously 'proven' Stages of the Proof of Performance Trial. The remaining samples must be taken once the leachate flow rate increases to equal the 'maximum flow rate.' Where leachate is diluted with stormwater, the Licensee must ensure that an adequate period of time is allowed for this water to exit the Wetland system prior to recommencing sampling at the maximum flow rate.

b. A minimum of three water samples must be taken at the maximum flow rate. Samples must be taken a minimum of two weeks apart.

The Licensee must prepare and submit results of analysis to the EPA in accordance with Condition R4.3 of this Licence.

U3 Environmental Study - Combined mass balance for Wilson Park Wetland and Blaxland Sustainable Leachate Treatment Wetlands

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- U3.1 The licensee must prepare a combined mass balance calculation for the Wilson Park Wetland and Blaxland Sustainable Leachate Treatment Wetlands systems after the first discharge from Wilson Park Wetland after commencement of the Blaxland Sustainable Leachate Treatment Wetlands Proof of Performance Trial. The combined mass balance calculation must be prepared as follows:
- a. Flow measurements and sampling results
 - (i) Collate flow measurements and sampling results for the common analytes required to be monitored for both Wilson Park Wetland and Blaxland Sustainable Leachate Wetlands taken under conditions M2.2 and M6.1 of this Licence for Blaxland Sustainable Leachate Treatment Wetlands
 - (ii) Collate flow measurements and sampling results for the common analytes required to be monitored for both Wilson Park Wetland and Blaxland Sustainable Leachate Wetlands taken under conditions M2.2 and M6.1 of this Licence for Wilson Park Wetland, over the same time period as the Blaxland Sustainable Leachate Treatment Wetlands. (Note: Wilson Park sampling must be undertaken over the same time period as the Blaxland Sustainable Leachate Treatment Wetlands sampling. It is not necessary for the wetlands to be discharging simultaneously).
 - b. Mass balance calculation
 - (i) Calculate the 'mass emission rate' (mass/time) for each of the common analytes required to be monitored for both the Blaxland Sustainable Leachate Treatment Wetlands and Wilson Park Wetland under condition M2.2 of this licence, by multiplying the measured concentration by the flow rate measured at the time of sampling for each wetland
 - (ii) Determine the average mass emission rate by adding the results of multiplying the concentration by the flow rate (completed in part b(i)) for each sample, then divide by the number of sampling rounds for each wetland
 - (iii) Determine the average flow rate for each Wetland by adding the flow rates over the Trial period and dividing by the number of sampling rounds
 - (iv) Calculate the sum of the two average mass emission rates
 - (v) Calculate the sum of the two average flow rates
 - (vi) Calculate the predicted concentration for each analyte for the combined discharge by dividing the sum of the average mass emission rate by the sum of the average flow rates
 - c. The predicted concentration for each analyte can then be compared to the concentration limits contained within Condition L2.4 of this licence. Where limits are different for the two Wetlands, the concentration must be compared with both limits.
 - d. A report containing the calculations and final results of the Combined Mass Balance Calculations must either be submitted to the EPA as part of the Final Report required by Condition R4.5 of this Licence, or if there is no discharge from the Wilson Park Wetlands during the Proof of Performance Trial then a separate report containing the mass balance calculations must be submitted to the EPA within two months of the first discharge from the Wilson Park Wetland.

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9 Special Conditions

E1 Special Dictionary

E1.1 For the purposes of this licence -

Balance

Tank means the tank designated 'BALANCE TANK' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013

BLAX 1 means the water treatment pond designated 'TREATMENT POND BLAX 1' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013

BLAX2 means the water treatment pond designated 'TREATMENT POND BLAX 2' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013

Overflow pond

means the pond designated 'OVERFLOW STORAGE POND No.3' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013

Easting means the distance in metres from the point of origin of the relevant UTM zone where the central meridian of the zone is set at 500,000 metres.

GDA94 means the Geocentric Datum of Australia, 1994 (being the latest Australian coordinate system based on the GRS80 ellipsoid used to model the earth in the universal transverse mercator coordinate system.)

MGA means Map Grid of Australia

Northing means the distance decreasing south in metres from the equator where the equator is set at 10,000,000 metres and the south end of the UTM zones is 1,100,00 metres.

SDP means the concrete pit designated 'Shared Discharge Pit' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013.

TP 2 means the water treatment pond designated 'TREATMENT POND No.2' on Sydney Olympic Park Authority drawing number O85-G-G-0008 revision C and dated 10 December 2013

UTM means Universal Transverse Mercator

Vertical

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Flow

Wetlands means that part of the Blaxland Common landfills leachate wetlands treatment system (including artificial cascade) designated 'VERTICAL FLOW WETLANDS' on Sydney Olympic Park Authority drawing number 085-G-G-0008 revision C and dated 10 December 2013.

Zone refers to UTM zone.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Peter Yates

Environment Protection Authority

(By Delegation)

Date of this edition: 02-February-2000

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End Notes

- 1 Licence varied by notice V/M upgrade, issued on 07-Jul-2000, which came into effect on 07-Jul-2000.
- 2 Licence varied by notice 1000995, issued on 21-May-2001, which came into effect on 22-May-2001.
- 3 Licence varied by notice 1042541, issued on 18-Jan-2005, which came into effect on 18-Jan-2005.
- 4 Licence varied by notice 1090102, issued on 14-Jul-2008, which came into effect on 14-Jul-2008.
- 5 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 6 Licence fee period changed by notice 1097423 approved on .
- 7 Licence varied by notice 1125343, issued on 29-Jun-2011, which came into effect on 29-Jun-2011.
- 8 Licence varied by notice 1510299 issued on 28-Nov-2012
- 9 Licence format updated on 26-Feb-2014
- 10 Licence varied by notice 1520684 issued on 12-Mar-2014
- 11 Licence varied by notice 1522514 issued on 04-Jun-2014