



Environment Protection Licence

Licence - 4435

Licence Details

Number:	4435
Anniversary Date:	01-October

Licensee

HUNTER WATER CORPORATION
 PO BOX 5171
 HUNTER REGION MAIL CENTRE NSW 2310

Premises

TANILBA BAY WASTEWATER TREATMENT WORKS
 OFF LEMON TREE PASSAGE ROAD
 MALLABULA NSW 2319

Scheduled Activity

Sewage treatment

Fee Based Activity

Sewage treatment processing by small plants

Scale

> 219-1000 ML annual maximum volume of discharge

Contact Us

NSW EPA
 4 Parramatta Square
 12 Darcy Street
 PARRAMATTA NSW 2150
 Phone: 131 555
 Email: info@epa.nsw.gov.au

Locked Bag 5022
 PARRAMATTA NSW 2124



Environment Protection Licence

Licence - 4435

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Load limits	10
L3 Concentration limits	10
L4 Volume and mass limits	11
L5 Waste	12
L6 Potentially offensive odour	12
L7 Other limit conditions	12
4 OPERATING CONDITIONS	12
O1 Activities must be carried out in a competent manner	12
O2 Maintenance of plant and equipment	13
O3 Emergency response	13
O4 Processes and management	13
O5 Other operating conditions	14
5 MONITORING AND RECORDING CONDITIONS	14
M1 Monitoring records	14
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	16
M4 Testing methods - load limits	16
M5 Recording of pollution complaints	16



Environment Protection Licence

Licence - 4435

M6	Telephone complaints line	17
M7	Requirement to monitor volume or mass	17
M8	Requirement to record bypass incidents from sewage treatment plants	18
M9	Other monitoring and recording conditions	18
6	REPORTING CONDITIONS	19
R1	Annual return documents	19
R2	Notification of environmental harm	20
R3	Written report	20
R4	Other notifications	21
R5	Annual system performance report	21
7	GENERAL CONDITIONS	22
G1	Copy of licence kept at the premises or plant	22
G2	Contact number for incidents and responsible employees	22
G3	Signage	23
G4	Other general conditions	23
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	24
U1	Pollution Reduction Study (PRS) 14 - Validation of modelling that predicts groundwater resurfacing	24
U2	Pollution Reduction Program 17 - Upgrade the Sewage Treatment Plant	25
DICTIONARY		28
General Dictionary		28

Environment Protection Licence

Licence - 4435

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).



Environment Protection Licence

Licence - 4435

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:

HUNTER WATER CORPORATION
PO BOX 5171
HUNTER REGION MAIL CENTRE NSW 2310

subject to the conditions which follow.

Environment Protection Licence

Licence - 4435

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Sewage treatment	Sewage treatment processing by small plants	> 219 - 1000 ML annual maximum volume of discharge

A1.2 The objectives of this licence are to:

- require practical measures to be taken to protect public health and the environment;
- require proper and efficient design, construction and management of the sewage treatment system to minimise harm to public health and the environment; and
- minimise the frequency and volume of overflows from the reticulation system and sewage treatment plant.

A1.3 This licence is to be construed in a manner that will promote the objectives referred to in the condition above.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
TANILBA BAY WASTEWATER TREATMENT WORKS
OFF LEMON TREE PASSAGE ROAD
MALLABULA
NSW 2319
LOT 1 DP 633535, LOT 2 DP 828314, LOT 3 DP 828314
VOL 15179 FOL 151

A2.2 The premises also includes the reticulation system owned and operated by the licensee that is associated with the sewage treatment plant(s) identified in condition A2.1.

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.

Environment Protection Licence

Licence - 4435

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 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.

P1.2 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.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters; effluent quality monitoring	Discharge to waters; effluent quality monitoring	Immediately downstream of the U.V disinfection system labelled monitoring Point 1 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
2	Effluent volume monitoring		Effluent flume channel labelled Monitoring Point 2 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355
3	Emergency overflow.	Emergency overflow.	Emergency overflow from Infiltration Pond No.4 labelled Monitoring Point 3 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355

Environment Protection Licence

Licence - 4435

4	Ground water monitoring	Groundwater bore "51" labelled Monitoring Point 4 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355
5	Ground water monitoring	Groundwater bore "151" labelled Monitoring Point 5 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. this plan is filed as part of EPA file doc17/572355
6	Ground water monitoring	Groundwater bore "251" labelled Monitoring Point 6 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
7	Ground water monitoring	Groundwater bore "52" labelled Monitoring Point 7 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
8	Ground water monitoring	Groundwater bore "152" labelled Monitoring Point 8 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
9	Ground water monitoring	Groundwater bore "252" labelled Monitoring Point 9 on the plan titled "Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
10	Ground water monitoring	Groundwater bore "53" labelled Monitoring Point 10 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
11	Ground water monitoring	Groundwater bore "153" labelled Monitoring Point 11 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.

Environment Protection Licence

Licence - 4435

12	Ground water monitoring	Groundwater bore "253" labelled Monitoring Point 12 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
13	Groundwater quality monitoring	Groundwater bore "54" labelled Monitoring Point 13 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
14	Groundwater quality monitoring	Groundwater bore "55" labelled Monitoring Point 14 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
15	Groundwater quality monitoring	Groundwater bore "57" labelled Monitoring Point 15 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
16	Groundwater Quality Monitoring	Control Bore "SK5389" labelled Monitoring Point 16 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
17	Effluent Quality Monitoring	Wastewater "Pond 1" labelled Monitoring Point 17 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
18	Effluent Quality Monitoring	Wastewater "Pond 2" labelled Monitoring Point 18 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
19	Effluent Quality Monitoring	Wastewater "Pond 3" labelled Monitoring Point 19 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.

Environment Protection Licence

Licence - 4435

20	Effluent Quality Monitoring	Wastewater "Pond 4" labelled Monitoring Point 20 on the plan titled " Monitoring Point Locations at Tanilba Bay WWTP Licence No. 4435" dated 10/11/2017. This plan is filed as part of EPA file doc17/572355.
----	-----------------------------	---

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.
- L1.2 The licensee may only discharge untreated or partially treated sewage from the sewage treatment plant and/or the reticulation system subject to the conditions of this licence, including Sections O1 and O2.

L2 Load limits

- L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.
- L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
BOD (Enclosed Water)	5029.00
Nitrogen (total) (Enclosed Water)	6323.00
Oil and Grease (Enclosed Water)	539.00
Phosphorus (total) (Enclosed Water)	4564.00
Total suspended solids (Enclosed Water)	12429.00

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

L3 Concentration limits

- L3.1 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.
- L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

Environment Protection Licence

Licence - 4435

L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

L3.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre		3		5
BOD	milligrams per litre		10		30
Nitrogen (total)	milligrams per litre	15			
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre		20		50

L3.5 Note: The BOD, TSS and Total Nitrogen limits shown above will be reduced, and new limits for faecal coliforms will be added, post completion of the sewage treatment plant upgrade described at PRP 17. The new limits are shown in PRP 17.

L4 Volume and mass limits

L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
 a) liquids discharged to water; or;
 b) 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
1	kilolitres per day	10000

Note: The plant is being upgraded, as detailed in PRP 17 of this licence. This upgrade is scheduled for completion in 2021. The plant is being redesigned to treat flows up to 8.7 x ADWF. Therefore the ultimate design limit for this plant at full capacity will be 8.7 x ADFW or 15,500kL/d. The licensee has advised that the plant should reach this capacity at 2040.



Environment Protection Licence

Licence - 4435

L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.
- L5.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.
- L5.3 The licensee may receive and/or transfer sewage and liquid waste generated outside the premises for treatment, processing or reprocessing at the premises. The licensee must take reasonable steps to ensure that sewage received at the premises has been lawfully discharged in accordance with a trade waste agreement or customer contract (as applicable) in force between the licensee and the generator of the waste. The licensee must treat, process or reprocess the sewage and liquid waste in accordance with this licence prior to discharge from the premises.
- L5.4 The licensee may receive, store, treat, process or reprocess and/or transfer at the premises sewage products generated or stored outside the premises by the licensee's other sewage treatment systems. Sewage products must be received, treated, processed or reprocessed in accordance with this licence.
- L5.5 Any grit or screenings generated on the premises that the licensee disposes of within the boundary of the premises' sewage treatment plant(s) is to be managed and disposed of in an appropriate manner that prevents as far as practicable harm to the environment.

L6 Potentially offensive odour

- L6.1 No condition in 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.

L7 Other limit conditions

- L7.1 After 1 April 2005 the licensee must not permit discharges in dry weather from any sewage pumping stations or directed overflow structures within the premises.

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

Environment Protection Licence

Licence - 4435

b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

Note: The requirements of O1.1 apply to the whole of the premises, including the reticulation system.

O1.2 Biosolids at the premises must be stored, treated, processed, classified, transported and disposed in accordance with the Biosolids Guidelines, or as otherwise approved in writing by the EPA.

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.

O2.2 The requirements of O2.1 apply to the whole of the premises, including the reticulation system.

O3 Emergency response

O3.1 In the event of an overflow or bypass that harms or is likely to harm the environment, the licensee must use all practicable measures to minimise the impact of the overflow or bypass on the environment and public health. These measures are to be implemented as soon as practical after the licensee or one of the licensee's employees or agents becomes aware of the overflow or bypass.

O4 Processes and management

O4.1 Sewage or effluent must not be discharged from points 1 and 2 unless it has been treated in accordance with this condition.

O4.2 The portion of sewage inflows to the sewage treatment plant less than 294 L/s must receive screening, biological treatment, clarification and ponding prior to discharge to point(s) 1 and/or 2

O4.3 The portion of the sewage treatment inflows to the sewage treatment plant that is 294 L/s or more must receive screening and ponding

O4.4 The licensee must ensure that any extension to the reticulation system is planned, designed, constructed and installed to prevent as far as practicable discharges of sewage or partially treated sewage from the premises.

Note: "The premises" includes both the new and the previously existing parts of the reticulation system.

O4.5 Discharges in dry weather from any sewage pumping station(s) installed within the sewage treatment system after 1 April 2005 are not permitted.

O4.6 Additional directed overflow structures must not be constructed within the sewage treatment system unless the directed overflow structure is essential for the proper and efficient operation of the system.

Before constructing an additional directed overflow structure, the licensee must prepare a written report

Environment Protection Licence

Licence - 4435

assessing the following issues for the purposes of this condition:

- a) risk of harm to public health, environment or property if the proposed directed overflow structure is not constructed;
- b) risk of harm to public health and the receiving environment if an overflow from the directed overflow structure occurred;
- c) systems to be used to monitor overflows, power failures or mechanical failures of pumping or electrical equipment relating to or affecting the proposed directed overflow structure; and
- d) ability of the licensee to respond to overflows from the proposed directed overflow structure and to minimise the impact on the environment and public health.

The report must be:

- e) kept for at least 4 years after the report is made or the directed overflow structure is constructed, whichever is later; and
- f) produced in a legible form to any authorised officer of the EPA who asks to see it.

- O4.7 The Licensee must develop, maintain and implement a Pond Loading Procedure which ensures the effluent is dispersed as evenly as possible across the four infiltration ponds to reduce groundwater mounding and maximise pathogen and nitrogen removal.

O5 Other operating conditions

O5.1 Prohibition on acceptance of pesticides

The licensee must not consent to any discharge of organophosphate pesticides (including chlorpyrifos, diazinon, malathion) or organochlorine pesticides (including dieldrin, heptachlor and chlordane) into the sewage treatment system.

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

Environment Protection Licence

Licence - 4435

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 1

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Weekly	Grab sample
Conductivity	microsiemens per centimetre	Monthly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Monthly	Grab sample
Nitrogen (total)	milligrams per litre	Monthly	Grab sample
Oil and Grease	milligrams per litre	Fortnightly	Grab sample
pH	pH	Weekly	Grab sample
Phosphorus (total)	milligrams per litre	Monthly	Grab sample
Total suspended solids	milligrams per litre	Weekly	Grab sample

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Each overflow event	Representative sample
Faecal Coliforms	colony forming units per 100 millilitres	Each overflow event	Representative sample
Oil and Grease	milligrams per litre	Each overflow event	Representative sample
pH	pH	Each overflow event	Representative sample
Total suspended solids	milligrams per litre	Each overflow event	Representative sample

POINT 4,5,6,7,8,9,10,11,12,13,14,15,16

Pollutant	Units of measure	Frequency	Sampling Method
Depth	metres (Australian Height Datum)	Quarterly	Probe

POINT 4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 4435

Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Quarterly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Nitrogen (total)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

Note: For the purposes of the tables above: Daily means at least 12 hours between samples. Weekly means at least 4 days between samples. Monthly means at least 20 days between samples. Quarterly means at least 10 weeks between samples.

Note: It is not a non-compliance of this condition if sampling was not possible or representative due to low groundwater levels or if the effluent pond was at less than 10% capacity. If such a situation occurs a note must be made on the relevant Annual Return detailing each date and site where this occurred.

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.

M4 Testing methods - load limits

Note: Division 3 of the *Protection of the Environment Operations (General) Regulation 2009* requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.

M5 Recording of pollution complaints

M5.1 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.

M5.2 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

Environment Protection Licence

Licence - 4435

complainant; and

f) if no action was taken by the licensee, the reasons why no action was taken.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 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.

M6.2 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.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6.4 For the purpose of this condition, operating hours are defined as twenty four hours a day, seven days a week.

M6.5 The public notification referred to in condition M5.2 must include specific reference to the fact that the complaints line may be used by the community for the reporting of overflows.

M7 Requirement to monitor volume or mass

M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:

a) the volume of liquids discharged to water or applied to the area;

b) the mass of solids applied to the area;

c) 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
Continuous	kilolitres per day	Electronic level sensor and continuous logger

M7.2 Equipment used to monitor the volume must provide data that is within 5 percent of the actual volume over the likely full range of flow required to be measured by the equipment.

M7.3 In the event that the licensee cannot comply with a volume monitoring method as required by this licence solely due to the failure or malfunction of essential monitoring equipment, volume may be calculated using another agreed method approved in writing by the EPA. This provision only applies for the duration of the failure or malfunction and the licensee is to rectify the failure or malfunction as soon as practical.

M7.4 For the purpose of condition M6.3 the method approved by the EPA is as follows:

Environment Protection Licence

Licence - 4435

Point	Frequency	Method
2	In the event of failure of the total flow meter	Inlet flow meter
2	In the event of failure of the total volume flow meter and the inlet flow meter	Calculate the total volume by multiplying pump hours of the Tanilba Bay No.1, Mallubula No.1, Mallubula No.2, and Lemon Tree Passage No. 1 pump stations by each pumps flow rate

M8 Requirement to record bypass incidents from sewage treatment plants

- M8.1 The licensee must record the following details in respect of each bypass of any of the appropriate treatment processes required by condition O3 which may adversely affect the quality of the final effluent:
- the EPA point identification number through which the bypass discharged;
 - the estimated start time, date and duration of the bypass;
 - the estimated volume of the bypass;
 - the level of treatment at the sewage treatment plant prior to discharge; and
 - the most likely cause of the bypass.

M8.2 Sewage treatment plant overflows

The licensee must record the following details in relation to each overflow from the sewage treatment plant:

- the EPA point identification number through which the overflow discharged;
- the date, estimated start time and estimated duration of the overflow;
- the estimated volume of the overflow;
- the level of treatment at the sewage treatment plant prior to discharge; and
- the most likely cause of the overflow.

M8.3 Overflows from the reticulation system

From 3 October 2005 the licensee must record the following details in relation to each observed or reported overflow from the reticulation system:

- the location of the overflow;
- the date, estimated start time, and estimated duration of the overflow;
- the estimated volume of the overflow;
- the most likely cause of the overflow; and
- actions taken to prevent the overflow happening again.

M9 Other monitoring and recording conditions

- M9.1 The licensee must monitor biosolids that are produced at the premises in accordance with the Biosolids Guideline. However, the licensee is not required to comply with the monitoring conditions in the Biosolids Guideline that relate to the reuse or disposal of biosolids at the locations other than the premises.

6 Reporting Conditions

Environment Protection Licence

Licence - 4435

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

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 via eConnect *EPA* or 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 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:

- a) the assessable pollutants for which the actual load could not be calculated; and
- b) the relevant circumstances that were beyond the control of the licensee.

R1.7 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.

R1.8 Within the Annual Return, the Statements 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.

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

Environment Protection Licence

Licence - 4435

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.

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.

Environment Protection Licence

Licence - 4435

R4 Other notifications

R4.1 Where either:

- a) sewage or partially treated sewage is discharged from the premises as a result of a bypass of the sewage treatment plant, or
- b) an observed or reported overflow has occurred from the reticulation system,

and the overflow or bypass may result in a significant risk to public health, the licensee is to promptly give appropriate notification to any parties that are likely to be affected, such as:

- i) the EPA's Pollution Line service on 131 555,
- ii) the NSW Department of Public Health; and
- iii) local council(s) where relevant.

R4.2 Within 3 months from 1 January 2005 the licensee must develop and implement an incident notification protocol. The incident notification protocol must include procedures for notification of, but not limited to, the following groups or organisations:

- a) notification of the EPA's Pollution Line service on 131 555 where an overflow has occurred from either the treatment plant or the reticulation system that has discharged to a waterway or could reasonably be expected to discharge to a waterway;
- b) notification of the NSW Department of Public Health for incidents of public health significance; and
- c) notification of local council(s) where relevant.

For the purposes of this condition, "overflow" does not include leakage.

R4.3 Notifications required by condition R4 must include the following information:

- a) the nature of the incident that led to the bypass or overflow;
- b) any testing or inspections of the discharge or receiving waters that have been carried out;
- c) any testing or inspections currently occurring and when results are anticipated; and
- d) any other available information regarding harm or potential harm to the environment.

R4.4 The notification is to be given as soon as practicable after the licensee or one of the licensee's employees or agents becomes aware of the incident.

The notification could detail incidents in more than one location or sewage treatment system operated by the licensee.

Note: These reporting requirements do not affect any obligations of the licensee to report under Part 5.7 of the Act incidents which cause or threaten harm to the environment.

R4.5 The Licensee must notify the NSW Food Authority of incidents of significance to shellfish production. This notification is to be given as soon as practicable after the licensee or one of the licensee's employees or agents becomes aware that the incident may be of significance to shellfish production.

R5 Annual system performance report

R5.1 The licensee must supply to the EPA an Annual System Performance Report not later than 60 days after the end of each reporting period.

R5.2 The Report is to supplement the Annual Return and must include but need not be limited to:

- a) the 50 percentile, 90 percentile, 100 percentile and 3DGM values calculated from the monitoring data for each pollutant which has corresponding concentration limits specified in this licence;



Environment Protection Licence

Licence - 4435

- b) a diagram showing the major process elements, discharge points and monitoring points at the premises' sewage treatment plant(s), where there has been any significant change since the previous reporting period or this information has not been provided previously to the EPA;
- c) the number of dry and wet weather bypasses recorded over the reporting period (recorded in accordance with condition M7);
- d) a summary of observed, reported or recorded sewage treatment plant bypasses and overflows. These data are to be for the current reporting period and for the previous twelve-month periods, up to a maximum of four, for which data has been required to be collected. Any significant actions taken to address bypasses or overflows are to be noted;
- e) the amount of rainfall measured at a rain gauge at the STP, or at the rain gauge closest to the centre of the catchment of the sewage treatment system, for each month of the reporting period;
- f) a progress report on the implementation over the reporting period of actions specified in the PRP's; and
- g) any additional structures constructed in accordance with condition L7.

R5.3 The Annual System Performance Report must be presented in a format approved in writing by the EPA.

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.

G2 Contact number for incidents and responsible employees

- G2.1 The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can:
 - a) respond at all times to incidents relating to the premises; and
 - b) contact the licensee's senior employees or agents authorised at all times to:
 - i) speak on behalf of the licensee; and
 - ii) provide any information or document required under this licence.
- G2.2 The licensee is to inform the EPA in writing of the representative or representatives and their telephone number(s) by 28 February 2005. The EPA must be notified of the telephone number(s) on commencement of its/their operation.
- G2.3 The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

Environment Protection Licence

Licence - 4435

G3 Signage

G3.1 The location of EPA point number(s) must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

G4 Other general conditions

G4.1 In the event of an overflow or bypass that harms or is likely to harm the environment, the licensee must use all practicable measures to minimise the impact of the overflow or bypass on the environment and public health. These measures are to be implemented as soon as practical after the licensee or one of the licensee's employee's or agents becomes aware of the overflow or bypass.

G4.2 Completed Pollution Studies and Reduction Programs (PRPs)

PRP Name	Description	Completed Date
PRP 1 - Stormwater inundation and discharge of effluent	Identify works or methods to minimise the stormwater inundation of the plant and prevent / minimise the discharge of effluent to Tilligerry Creek.	December 2002
PRP 2 - Minimising effluent discharge	Construct works to control mixing of effluent with surface water during floods. Modify works to improve sludge treatment and handling. Install UV disinfection unit upstream of exfiltration ponds.	June 2003
PRP 3 - Performance on exfiltration ponds	Provide a report on the performance of the exfiltration ponds following trial, restoration and installation of monitoring equipment.	February 2006
PRP 100 - Sewer Overflow Investigations Report (PRP 4)	Develop a hydraulic model to predict overflow volumes from reticulation networks and treatment plant to determine assessable loads and licence fees.	June 2008
PRP 102 - Operation and Maintenance Plan (PRP 5)	Develop an Operation and Maintenance Plan for the reticulation system.	April 2006
PRP 103 - Evaluation Protocol (PRP 6)	Develop an Evaluation Protocol for the hydraulic sewer system model.	July 2005
PRP 103 - Environment Monitoring Plan (PRP 7)	Report on the current impact of overflows and develop a monitoring proposal for collecting data to allow assessment of locations, frequency, quality and environmental and health impacts of overflows. Preventative measures can then be designed and implemented to reduce impacts.	June 2008
PRP 8 - Trial exfiltration beds	Licensee required to trial exfiltration beds in wet and dry modes and monitor pond and groundwater levels. Report required outlining effectiveness.	June 2008

Environment Protection Licence

Licence - 4435

PRP 9 - Investigate periodic high ammonia levels in treated effluent	Investigate the reason for high Ammonia in effluent from time to time and develop an action program to prevent future occurrences	December 2012
PRP 10 - Investigate impacts of wastewater disposal on the receiving environment	Investigate impacts of the WWTW on the receiving environment. Licensee to undertake investigations into Ammonia, Total Nitrogen, Hepatitis and norovirus in the groundwater and provide a report to the EPA	June 2014
PRP 11 - Assess Ammonia Optimisation Measures and Determine Ammonia Criteria	Requires further stages of works committed to in PRP 9. Works include (a) assessment report based on 12 months of monitoring and (b) desktop review of appropriate ammonia criteria for the premises.	March 2014
PRS12 - Complete concept design for upgraded plant	Complete concept design for upgrading the sewage treatment plant such that it meets performance specifications until at least 2040	March 2017
PRS 13 - Review of UV Disinfection System	Systematically review the UV disinfection system at the premises including verification against performance criteria, assessment of reliability/redundancy, assess control philosophy and alarms and assess operating and maintenance tasks.	October 2016
PRP 15 - Upgrades to Bunds for Loading and Unloading Hazardous Chemicals	Design and construct bunds around the hazardous chemical loading and unloading areas at Lemon Tree Passage 2 Wastewater Pumping Station and Lemon Tree 4 Wastewater Pumping Station.	May 2017
PRS 16 - Network Hazardous Chemical Dosing Unit Upgrades - Concept Design	Complete concept designs for improvements to secondary containment for all Network Dosing Units, loading and unloading bunds, double containment pipework and pumps and sealing containment at discharge pits.	May 2017

8 Pollution Studies and Reduction Programs

U1 Pollution Reduction Study (PRS) 14 - Validation of modelling that predicts groundwater resurfacing

U1.1 Background

Modelling investigations by the licensee have identified that a groundwater height of 2.95 m AHD at monitoring bore 153 may indicate groundwater resurfacing. The licensee has conducted a number of investigations that indicate this groundwater should not contain human viruses. The EPA added a Pollution Reduction Study as an extra precaution to prevent impacts on the oyster industry nearby. This PRS requires validation of the modelling.

Deliverables

The licensee must validate the modelled groundwater resurfacing locations and levels and implement a

Environment Protection Licence

Licence - 4435

groundwater resurfacing response protocol with the NSW Food Authority. The licensee must provide a report to the EPA with the findings of these investigations by no later than 3 September 2021.

U2 Pollution Reduction Program 17 - Upgrade the Sewage Treatment Plant

U2.1 Background

Pollution Reduction Program (PRP) 12 required the licensee to complete a concept design to upgrade the sewage treatment plant (STP). This concept design and associated Review of Environmental Factors (REF) identified the following works that will be completed at the STP:

- Decommissioning of redundant sludge lagoons;
- Replacement of existing inlet works drum screen;
- Altered flow monitoring, moved from the inlet works flume to electromagnetic flow meters installed on individual rising mains upstream of the inlet works;
- Installation of new bunded chemical dosing area(s) for caustic and alum dosing within the STP or sewerage system, including storage tank(s), bulk storage container(s), and associated pumps and pipelines;
- Installation of a new UV disinfection unit to replace the current UV system;
- Installation of a new sludge treatment system comprising two aerobic digesters and one sludge holding tank; and
- Converting an existing 3.9 ML tank to a "Wet Weather Storage / Out of Specification Effluent Storage Tank" to provide a higher treated effluent quality for all flows received at the STP. The licensee has advised that the upgraded plant will provide full biological treatment up to 4 times "Average Dry Weather Flow" (ADWF) (which is 82 L/s) and provide "Storm-cycle Treatment" for flows between this and 8.7 x ADWF (180 L/s). This is better than the historic industry practice of full treatment of 3 x ADWF and "Storm-cycle Treatment" up to 7 x ADWF. The REF notes that flows in excess of 180 L/s stored in the "Wet Weather Storage / Out of Specification Effluent Storage Tank" would be returned to the inlet works during periods of lower flows to receive treatment. The licensee modelled this approach using actual data (when there were several very large storm events) and noted treating 4 x ADWF is predicted to treat approximately 99.8 % of all flows. The licensee therefore has noted that this storage capacity will be more than adequate to store excess flows without a bypass of the biological process resulting in a higher level of treatment to all flows received compared to the existing design. The REF concluded "By limiting the flows at the inlet works to 180 L/s and providing emergency storage and subsequent treatment for flows in excess of 180 L/s, the Project would improve the quality of effluent being discharged to the environment. On this basis, the EPL requirement to provide full treatment to flows less than 294 L/s can be reduced to 82 L/s, with partial treatment for flows between 82 L/s and 180 L/s." (p10 of the REF). The REF also stated "The partial treatment provided by the wet weather cycle represents the treatment provided to achieve the maximum 100th percentile discharge limits." (p.10 of the REF)

U2.2 Effluent Criteria Design Standards

The design detailed in the REF was based around the STP having capacity and capability up until 2040 while meeting the following limits:

- Ammonia: 90th percentile limit of 3 mg/L and 100th percentile limit of 5 mg/L;
- BOD: 90th percentile limit of 10 mg/L and 100th percentile limit of 20 mg/L;
- Total suspended solids: 90th percentile limit of 15 mg/L and 100th percentile limit of 30 mg/L.
- Total Nitrogen: 50th percentile limit of 10 mg/L; and
- pH: 100th percentile limit of 6.5 – 8.5

Environment Protection Licence

Licence - 4435

The design must also meet the following limits immediately downstream of the UV treatment system:

- . Faecal coliforms: 90th percentile limit of 200 cfu/100ml and 100th percentile limit of 600 cfu/100ml.

U2.3 Deliverables

The STP must be upgraded consistent with the "Background" and the "Effluent Criteria Design Standards" detailed above and in accordance with the information detailed in the document titled "Review of Environmental Factors – Tanilba Bay WWTW Upgrade" prepared by AECOM and dated 25 May 2018.

The construction and commissioning of the upgraded STP must be completed by 31 October 2021. The licensee must provide a report to the EPA upon construction and commissioning of the upgraded STP detailing all works completed.

Note: Upon upgrade of the STP and completion of this PRP it is the intention of the EPA to vary the licence in the following manner:

Vary condition P1.2 for Point 2 to reflect the new arrangement for measuring inflows to the STP, that is a new location description of "Inlet works to the STP with flows measured by addition of flows from all electromagnetic flow meters installed on individual rising mains upstream of the inlet works".

Vary the concentration limits at condition L3 to those detailed above, including a note that the limits will apply for all flows up to 180 L/s as the REF stated at page 10 "The partial treatment provided by the wet weather cycle represents the treatment provided to achieve the maximum 100th percentile discharge limits". The REF notes the wet weather cycle at the STP will operate between flows of 82 L/s to 180 L/s.

Vary the volume limit at condition L4 for Point 1 based on the treatment capacity of the upgraded plant, being 180 L/s, which equates to 15,500 kL/d.

Vary condition O4.2 such that it reads "All sewage inflows up to 82 L/s must receive screening, biological treatment, clarification within the IDEA reactor, buffering within the "catch pond" and UV disinfection prior to discharge to Point 1."

Vary condition O4.3 such that it reads "All sewage inflows between 82 L/s and 180 L/s must receive screening, partial biological treatment, clarification within the IDEA reactor, and buffering within the "catch pond" prior to discharge to Point 1."

Add a new condition O4.4 that reads "All sewage inflows greater than 180 L/s must be diverted to the "Wet Weather Storage / Out of Specification Effluent Storage tank" for later treatment".

Add a new condition O4.5 that reads "Surplus capacity within the "Wet Weather Storage / Out of Specification Effluent Storage Tank" and buffering capacity the "Catch Pond" must be utilised such that the maximum volume of fully treated effluent passes through the UV disinfection system.

Add a new condition O4.6 that reads "All flows from the treatment train at the plant up to 82 L/s (4 x ADWF at predicted flows in the year 2040) must pass through the UV disinfection system."

Add a new condition O4.7 that reads "The licensee must advise the EPA in writing within 24 hours of any situation where effluent flows by-pass the UV disinfection system. This notification must include details as to the capacities (per cent full) of the "Wet Weather Storage / Out of Specification Effluent Storage Tank" and the "Catch Pond" at the time of the by-pass and if both are not at 100 % capacity why they have not

Environment Protection Licence

Licence - 4435

been utilised to the maximum extent possible to prevent undisinfected effluent being discharged."

Add a new condition O4.8 that reads "Once the "Wet Weather Storage / Out of Specification Effluent Storage Tank" has reached capacity additional flows greater than 180 L/s may travel direct to the Effluent Distribution Channel for discharge to the exfiltration ponds."

Vary condition M7.1 to reflect the new arrangement for measuring inflows to the STP, that is "Flow meters and continuous logger."

Environment Protection Licence

Licence - 4435

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

Environment Protection Licence

Licence - 4435

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> .

Environment Protection Licence

Licence - 4435

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 Bernie Weir

Environment Protection Authority

(By Delegation)

Date of this edition: 28-March-2000

Environment Protection Licence

Licence - 4435

End Notes

- 1 Licence varied by notice V/M upgrade, issued on 08-Jul-2000, which came into effect on 08-Jul-2000.
- 2 Licence varied by change to Contact details, issued on 03-Apr-2001, which came into effect on 03-Apr-2001.
- 3 Licence varied by notice 1011692, issued on 25-Jun-2002, which came into effect on 20-Jul-2002.
- 4 Licence varied by notice 1024508, issued on 24-Jun-2003, which came into effect on 19-Jul-2003.
- 5 Licence varied by notice 1038452, issued on 27-Jan-2005, which came into effect on 21-Feb-2005.
- 6 Licence varied by notice 1051136, issued on 06-Sep-2005, which came into effect on 01-Oct-2005.
- 7 Licence varied by notice 1053911, issued on 24-Nov-2005, which came into effect on 19-Dec-2005.
- 8 Licence varied by notice 1061644, issued on 21-Jul-2006, which came into effect on 21-Jul-2006.
- 9 Licence varied by notice 1068646, issued on 25-May-2007, which came into effect on 25-May-2007.
- 10 Licence varied by notice 1090219, issued on 26-Aug-2008, which came into effect on 26-Aug-2008.
- 11 Licence varied by notice 1092009, issued on 29-Sep-2008, which came into effect on 29-Sep-2008.
- 12 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 13 Licence varied by notice 1508172 issued on 04-Dec-2012
- 14 Licence varied by notice 1514024 issued on 17-Jun-2013
- 15 Licence varied by notice 1525553 issued on 20-Nov-2014
- 16 Licence varied by notice 1528120 issued on 22-Sep-2016
- 17 Licence varied by notice 1546411 issued on 07-Nov-2016
- 18 Licence varied by notice 1549196 issued on 09-Feb-2017
- 19 Licence varied by notice 1557582 issued on 17-Aug-2018
- 20 Licence varied by notice 1597797 issued on 28-Jul-2020
- 21 Licence varied by notice 1609944 issued on 23-Jun-2021