

Licence Variation

Section 58(5) Protection of the Environment Operations Act 1997



HUNTER WATER CORPORATION,
ACN/ARBN 46 228 513 446,
PO BOX 5171B,
NEWCASTLE WEST NSW 2302
STANDARD POST

Attention: Miss BERNADETTE TISDELL

Notice Number 1009306

File Number 270807

Date: 02-Jul-2001

NOTICE OF VARIATION OF LICENCE 1683

Section 58 of the Protection of the Environment Operations Act 1997

BACKGROUND

- (a) HUNTER WATER CORPORATION **was** ("the licensee") is the holder of environment protection licence 1683 for Scheduled Activity - Premises Based ("the licence") under the Protection of the Environment Operations Act 1997 ("the POEO Act").
- (b) On 14-Jun-2001 the EPA received an application for the variation of the licence.
- (c) In order to decommission that Stockton WWTW it is necessary to relocate part of the Shortland WWTW effluent main crossing the Kooragang Island Rail Bridge.
- (d) This variation reflects the alternate discharge arrangements during relocation of the effluent main.

Licence Variation

Section 58(5) Protection of the Environment Operations Act 1997

VARIATION OF LICENCE 1683

- 1) By this notice the EPA varies licence 1683 as set out in the Appendix. *(for licenses with a lot of changes and where the whole licence document will be in the appendix: The Appendix is a copy of the licence marked with the variations that are made to it by this notice. (for licences with a small number of changes where only the conditions will be printed: The Appendix is a copy of the provisions of the licence which are varied by this notice, marked with the variations that are made to them.*
- 2) The variations to the licence are indicated in the following way:
 - if a strike through mark appears through any word or other text (eg. ~~Solids or~~) this indicates that the word or other text is deleted from the licence by this notice; and
 - if a double underline appears under any word or other text (eg. must be treated) this indicates that the word or other text is added to the licence by this notice.
- 3) Except, as provided by s84(2) of the POEO Act, the variations to the licence by this notice begin to operate at the expiry of the period of 21 days from when you get notice of the variations, unless another date is specified in this notice.

Note: Section 84(2) provides that a variation to a licence does not operate until

- the expiry of the period of 21 days after notice of the decision to vary the licence is given to the licensee, or
- if an appeal against the decision is lodged, until the Land and Environment Court determines the appeal, or
- the licensee notifies the EPA in writing that no appeal is to be made against the decision to vary the licence,

whichever first occurs.

(This notice is issued under section 58(5) of the Protection of the Environment Operations Act 1997.)

.....
Mr Trevor Henderson
Acting Head Regional Operations Unit Hunter
Hunter
(by Delegation)

INFORMATION ABOUT THIS NOTICE:

- Section 287 of the Act enables appeals to be made in connection with decisions about a licence application within 21 days after notice of the decision is given to the applicant.

Environment Protection Authority

♦ Licence number: 1683

♦ File number: 270807

♦ Licence Anniversary Date: 01-July

Environment Protection Licence

Section 55 Protection of the Environment Operations Act 1997

♦ Review date not later than 01-Jul-2002

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Information about this licence

Dictionary

The licence contains a dictionary, which defines terms used in the licence. It is found at the end of the 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.

Transfer of licence

Transfer of the licence to another person may be requested by the licensee using the form for this purpose available from the EPA.

Variation of licence conditions

Variations to the conditions of this licence may be requested by the licensee using the form for this purpose available from the EPA. The EPA may also vary a 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 3 years after the issue of the licence, as

set out in Part 3.6 of the Act. You will receive advance notice of the licence review. For licences held immediately before 1 July 1999, the first review will take place before 1 July 2002.

Fees and annual return to be sent to the EPA

The licence requires you to forward to the EPA an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints).

The Annual Return must be submitted within 60 days after the end of each reporting period. Where a licence is transferred, surrendered or revoked, a special reporting period applies.

For each licence fee period you must pay:

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

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

See condition R1 and the accompanying form regarding the Annual Return requirements.

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

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

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.

Licence anniversary date

01-July

This licence is issued to

HUNTER WATER CORPORATION
PO BOX 5171B
NEWCASTLE WEST NSW 2302

subject to the conditions which follow:

1 Administrative conditions

A1 What the licence authorises and regulates

A1.1 Not applicable.

A1.2 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
Sewage Treatment Systems

Fee Based Activity	Scale
Sewage Treatment - processing by large plants (> 10000 ML per year) (71[b])	> 20000 - 30000 ML discharged

A1.3 Not applicable.

A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
NEWCASTLE SEWAGE SYSTEM
OFF SCENIC DRIVE
MEREWETHER
NSW
2291

Premises Details

**BURWOOD BEACH WASTE WATER TREATMENT
PLANT - HWC DRAWING NO. 12306A1**

**SHORTLAND WASTE WATER TREATMENT
PLANT - HWC DRAWING NO. 14252-04 A7**

Burwood Beach Waste Water Treatment Plant

Lot 1 DP 776283	Identifyer 1/776283
Lot 7 DP 776283	Identifyer 7/776283

Shortland Waste Water Treatment Plant

Lot 2 DP 535220	CT Vol 11145 Fol 4
Lot 1 DP 408005	CT Vol 7660 Fol 185
Lot 1 DP 163423	Conv No 699 Book 2432
Lot A DP 400052	CT Vol 8383 Fol 30
Lot 1 DP 339943	CT Vol 5048 Fol 84
Lot B DP 339943	CT Vol 8393 Fol 84

A3 Other activities

A3.1 Not applicable.

A4 Information supplied to the EPA

A4.1 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 Not applicable.
- 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.
- P1.3 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	Description of location
1	Ocean Outfall (effluent) - Burwood Beach WWTP	Ocean Outfall (effluent) - Burwood Beach WWTP	At the inspection pit down stream of the secondary clarifier and the wet weather bypass chamber
3	Ocean Outfall (sludge) - Burwood Beach WWTP	Ocean Outfall (sludge) - Burwood Beach WWTP	At the sludge pumping station
4	Sludge quality - Burwood Beach WWTP		At the sludge pumping station, identified as Q2 in HWC Drawing No FC9.101, Revision B, June 1996
5	Environmental Monitoring		In the waters of Bar Beach
6	Environmental Monitoring		In the waters of Merewether Beach
7	Environmental Monitoring		In the waters of Burwood Beach
8	Environmental Monitoring		In the waters of Glenrock Beach
9	Environmental Monitoring		In the waters of Dudley Beach
10	Sludge dilution / flushing quality and volume - Burwood Beach WWTP		Pump well between clarifier and the sludge line, identified as Q4 and F4 respectively in HWC Drawing No FC9.101, Revision B, June 1996
11	Scum to sludge line quality and volume - Burwood Beach WWTP		Scum pump well, identified as Q5 and F5 respectively in HWC Drawing No FC9.101, Revision B, June 1996
12	Total volume - Burwood Beach WWTP		Between the primary pump station and the screening / grit removal facility, identified as F1 in HWC Drawing No FC9.101, Revision B, June 1996
13	Treated volume - Burwood Beach WWTP		Between the secondary pump station and the secondary treatment works, identified as F2 in HWC Drawing No FC9.101, Revision B, June 1996
14	Sludge volume - Burwood Beach WWTP		Between the valve pit at activated sludge return pump well, identified as F3 in HWC Drawing No FC9.101, Revision B, June 1996
17	Effluent bypass volume - Burwood Beach WWTP		At the point where the effluent bypasses the secondary pump station
18	Concentration of pollutants - Shortland WWTP		Located at the overflow structure of the storm storage ponds
19	Concentration of pollutants - Shortland WWTP	Concentration of pollutants - Shortland WWTP	Downstream of the sulphur dioxide dosing point outside the dechlorination building
20	Effluent quality monitoring	Effluent quality monitoring	Temporary discharge point near the Kooragang Island Rail Bridge to the Hunter River for the period of 1 September to 30 November 2001 - refer to diagram dated 13 June 2001

P2 Signage

- P2.1 Each discharge and volume monitoring point must be clearly marked by a sign that indicates the location and name of the monitoring point.

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 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.

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

- 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 (Estuarine Waters)	
BOD (Open Coastal Waters)	
Cadmium (Estuarine Waters)	
Cadmium (Open Coastal Waters)	
Chromium (Estuarine Waters)	
Chromium (Open Coastal Waters)	
Copper (Estuarine Waters)	
Copper (Open Coastal Waters)	
Lead (Estuarine Waters)	
Lead (Open Coastal Waters)	
Mercury (Estuarine Waters)	
Mercury (Open Coastal Waters)	
Oil and Grease (Estuarine Waters)	
Oil and Grease (Open Coastal Waters)	
Pesticides and PCBs (Estuarine Waters)	
Pesticides and PCBs (Open Coastal Waters)	

Assessable Pollutant	Load limit (kg)
Selenium (Estuarine Waters)	
Selenium (Open Coastal Waters)	
Total Nitrogen (Estuarine Waters)	
Total Nitrogen (Open Coastal Waters)	
Total Phosphorus (Estuarine Waters)	
Total Phosphorus (Open Coastal Waters)	
Total Suspended Solids (Estuarine Waters)	
Total Suspended Solids (Open Coastal Waters)	
Zinc (Estuarine Waters)	
Zinc (Open Coastal Waters)	

L3 Concentration limits

- L3.1 For each monitoring/discharge point or utilisation area specified in the table\’s 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.
- 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\’s.

Water and Land

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile Concentration Limit
Oil and Grease	mg/L	5	10	15	-
Total Suspended Solids	mg/L	35	50	60	-

POINT 19

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile Concentration Limit
pH	pH				6.5-8.5
BOD	mg/L	25	60		80
Total Suspended Solids	mg/L	40	80		100

POINT 20

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile Concentration Limit
pH	pH				6.5-8.5
BOD	mg/L	25	60		80
Total Suspended Solids	mg/L	40	80		100

L3.4 Point 19 and 20 - Compliance with limit conditions

L3.4.1 For the purpose of determining compliance with the licence limit for pH for point 19 and 20, the licensee will be deemed to have complied with the pH licence limit provided the pH of the secondary effluent from the humus tanks entering the tertiary ponds is within the range 6.5-8.5 for more than 90 percent of the samples collected.

L3.4.2 For the purpose of determining compliance with the specified total suspended solids (TSS) licence limit for point 19 and 20, the concentration of TSS in samples collected, must be determined using the following equation:

$TSS(a) \text{ (milligrams per litre)} = TSS(b) \text{ (milligrams per litre)} \text{ minus } 0.1 \text{ times chlorophyll "a" (micrograms per litre).}$

TSS(a) = NFR concentration calculated for compliance

TSS(b) = Measured concentration of TSS (including algae).

The chlorophyll "a" analysis must be carried out on a subsample of the sample collected for the determination of the measured TSS. The sample must be well mixed when subsampling.

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	kL/day	510000
3	kL/day	5000
19	kL/day	20000
20	kL/day	20000

L5 Waste

L5.1 Not applicable.

L6 Noise Limits

L6.1 Not applicable.

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 Operation of volume monitoring equipment

O3.1 Flow sensing and recording equipment used to monitor the volume must provide data which is within 5% of the theoretical design of the primary flow structure over the likely full range of flows required to be measured by the equipment.

O4 Appropriate treatment processes

- O4.1 Liquid waste must not be discharged from the premises unless it has been treated in accordance with condition O4.

Burwood Beach Wastewater Treatment Plant

- O4.2 The portion of the liquid waste inflow that is less than 1,400L/s must receive screening, de-gritting, biological treatment followed by clarification.
- O4.3 The portion of the liquid waste inflow that is 1,400L/s or more must receive screening and de-gritting.

Shortland Wastewater Treatment Plant

- O4.4 The portion of the liquid waste inflow that is less than 360L/s must receive screening, de-gritting, biological treatment, and disinfectant.
- O4.5 The portion of the liquid waste inflow that is 360L/s or more must receive screening.
- O4.6 However the licensee is not taken to have breached this condition if the licensee can demonstrate:
- (a) the failure to treat the liquid waste as required was solely as a result of a failure of the power supply to the premises, or a failure of essential equipment; and
 - (b) the failure of the power supply or equipment could not reasonably have been prevented; and
 - (c) normal operating conditions were restored as soon as possible after the power supply failure or the failure of essential equipment.

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.

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:

NOTE: Daily means daily for each day of discharge.

Weekly means weekly at a minimum of 5 day intervals.

Fortnightly means fortnightly at a minimum of 10 day intervals.

Monthly means monthly at a minimum of 20 day intervals.

2 times a year means twice yearly with at least 5 months between samples.

M2.2 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 and sample at the frequency specified opposite in the other columns:

Water and Land

Point 1

Pollutant	Frequency	Sampling Method
Total Suspended Solids	On both the two days immediately following the samples collected above whenever the result of any sampling required by this licence indicates a result higher than the 90 percent limit for any parameter	Composite sample
Oil and Grease	On both the two days immediately following the samples collected above whenever the result of any sampling required by this licence indicates a result higher than the 90 percent limit for any parameter	Composite sample

M2.3 In addition to the requirements of M2.1, the following information must be recorded for any discharges from Point 18:

- (a) The date and duration of the discharge; and
- (b) The reason for the discharge.

*Water and Land***POINT 1**

Pollutant	Units of measure	Frequency	Sampling Method
Aldrin	ug/L	2 Times a year	Grab sample
Alpha-BHC	ug/L	2 Times a year	Grab sample
Arsenic	ug/L	2 Times a year	Grab sample
Biochemical Oxygen Demand	mg/L	Every 12 days exactly	Composite sample
Cadmium	ug/L	2 Times a year	Grab sample
Chlordane, total	ug/L	2 Times a year	Grab sample
Chromium	ug/L	2 Times a year	Grab sample
Copper	ug/L	2 Times a year	Grab sample
Dieldrin	ug/L	2 Times a year	Grab sample
Endosulfan	ug/L	2 Times a year	Grab sample
Endrin	ug/L	2 Times a year	Grab sample
Heptachlor	ug/L	2 Times a year	Grab sample
Heptachlor epoxide	ug/L	2 Times a year	Grab sample
Hexachlorobenzene (HCB)	ug/L	2 Times a year	Grab sample
Lead	ug/L	2 Times a year	Grab sample
Mercury	ug/L	2 Times a year	Grab sample
Nickel	ug/L	2 Times a year	Grab sample
Oil and Grease	mg/L	Every 12 days exactly	Composite sample
PCBs	ug/L	2 Times a year	Grab sample
Selenium	ug/L	2 Times a year	Grab sample
Silver	ug/L	2 Times a year	Grab sample
Total Suspended Solids	mg/L	Every 6 days	Composite sample
Zinc	ug/L	2 Times a year	Grab sample
beta-BHC	ug/L	2 Times a year	Grab sample
gamma-BHC (Lindane)	ug/L	2 Times a year	Grab sample
methoxychlor	ug/L	2 Times a year	Grab sample
p,p-DDD	ug/L	2 Times a year	Grab sample
p,p-DDE	ug/L	2 Times a year	Grab sample
p,p-DDT	ug/L	2 Times a year	Grab sample

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Aldrin	ug/L	Monthly	Grab sample
Alpha-BHC	ug/L	Monthly	Grab sample
Ammonia nitrogen	mg/L	Every 6 days	Grab sample
Arsenic	ug/L	Weekly	Grab sample
Cadmium	ug/L	Weekly	Grab sample
Chlordane, total	ug/L	Monthly	Grab sample
Chromium	ug/L	Weekly	Grab sample
Copper	ug/L	Weekly	Grab sample
Dieldrin	ug/L	Monthly	Grab sample
Endosulfan	ug/L	Monthly	Grab sample
Endrin	ug/L	Monthly	Grab sample
Heptachlor	ug/L	Monthly	Grab sample
Heptachlor epoxide	ug/L	Monthly	Grab sample
Hexachlorobenzene (HCB)	ug/L	Monthly	Grab sample
Lead	ug/L	Weekly	Grab sample
Mercury	ug/L	Weekly	Grab sample
Nickel	ug/L	Weekly	Grab sample
Oil and Grease	mg/L	Every 6 days	Grab sample
PCBs	ug/L	Monthly	Grab sample
Selenium	ug/L	Weekly	Grab sample
Silver	ug/L	Weekly	Grab sample
Zinc	ug/L	Weekly	Grab sample
beta-BHC	ug/L	Monthly	Grab sample
gamma-BHC (Lindane)	ug/L	Monthly	Grab sample
methoxychlor	ug/L	Monthly	Grab sample
p,p-DDD	ug/L	Monthly	Grab sample

Pollutant	Units of measure	Frequency	Sampling Method
p,p-DDE	ug/L	Monthly	Grab sample
p,p-DDT	ug/L	Monthly	Grab sample

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Enterococci	CFU/100mL	Every 6 days	Grab sample
Faecal coliforms	CFU/100mL	Every 6 days	Grab sample

POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Enterococci	CFU/100mL	Every 6 days	Grab sample
Faecal coliforms	CFU/100mL	Every 6 days	Grab sample

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Enterococci	CFU/100mL	Every 6 days	Grab sample
Faecal coliforms	CFU/100mL	Every 6 days	Grab sample

POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
Enterococci	CFU/100mL	Every 6 days	Grab sample
Faecal coliforms	CFU/100mL	Every 6 days	Grab sample

POINT 9

Pollutant	Units of measure	Frequency	Sampling Method
Enterococci	CFU/100mL	Every 6 days	Grab sample
Faecal coliforms	CFU/100mL	Every 6 days	Grab sample

POINT 18

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical Oxygen Demand	mg/L	Daily	Grab sample
Total Nitrogen	mg/L	Daily	Grab sample
Total Phosphorus	mg/L	Daily	Grab sample
pH	pH	Daily	Grab sample

POINT 19

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia nitrogen	mg/L	Monthly	Grab sample
Biochemical Oxygen Demand	mg/L	Weekly	Grab sample
Chlorophyll a	ug/L	Weekly	Grab sample
Faecal coliforms	CFU/100mL	Monthly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	Grab sample
Oil and Grease	mg/L	Fortnightly	Grab sample
Total Phosphorus	mg/L	Monthly	Grab sample
Total Suspended Solids	mg/L	Weekly	Grab sample
pH	pH	Weekly	Grab sample

POINT 20

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia nitrogen	mg/L	Monthly	Grab sample
Biochemical Oxygen Demand	mg/L	Weekly	Grab sample
Chlorophyll a	µg/L	Weekly	Grab sample
Faecal coliforms	CFU/100ml	Monthly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	Grab sample
Oil and Grease	mg/L	Fortnightly	Grab sample
Total Phosphorus	mg/L	Monthly	Grab sample
Total Suspended Solids	mg/L	Weekly	Grab sample
pH	pH	Weekly	Grab sample

M3 Testing methods - concentration limits

M3.1 Not applicable.

M3.2 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.

Note: Testing methods - load limit

Note: Clause 18 (1) and (2) of the Protection of the Environment Operations (General) Regulation 1998 requires that monitoring of actual loads of assessable pollutants listed in L2.1 must be carried out in accordance with the testing method set out in the relevant load calculation protocol for the fee-based activity classification listed in condition A1.2.

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.
- 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 Conditions M5.1 and M5.2 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 1

Frequency	Unit Of Measure	Sampling Method
Daily	kL/day	Special Method 1

POINT 3

Frequency	Unit Of Measure	Sampling Method
Daily	kL/day	Special Method 2

POINT 10

Frequency	Unit Of Measure	Sampling Method
Daily	kL/day	By Calculation (volume flow rate or pump capacity multiplied by operating time)

POINT 11

Frequency	Unit Of Measure	Sampling Method
Daily	kL/day	By Calculation (volume flow rate or pump capacity multiplied by operating time)

POINT 12

Frequency	Unit Of Measure	Sampling Method
Continuous	kL/day	Flow meter and continuous logger

POINT 13

Frequency	Unit Of Measure	Sampling Method
Continuous	kL/day	Flow meter and continuous logger

POINT 14

Frequency	Unit Of Measure	Sampling Method
Continuous	kL/day	Flow meter and continuous logger

POINT 17

Frequency	Unit Of Measure	Sampling Method
Daily	kL/day	Special Method 3

POINT 19

Frequency	Unit Of Measure	Sampling Method
Continuous	kL/day	Magnetic flow meter

POINT 20

Frequency	Unit Of Measure	Sampling Method
Continuous	kL/day	Magnetic flow meter

For the purposes of the table(s) above:

- (a) Special Method 1 means monitoring volume by calculation (ie. F1-F2-F3-F4);
- (b) Special Method 2 means monitoring volume by calculation (ie. F3+F4+F5); and
- (c) Special Method 3 means monitoring volume by calculation (ie. F1-F2).

M6.2 In the event that the licensee cannot comply with a volume monitoring method stipulated in this licence solely due to the failure or malfunction of essential monitoring equipment, volume may be calculated using another method previously approved in writing by the EPA. The alternate method may not be so employed on more than 14 days during the licence period without specific approval of the EPA.

M6.3 The licensee must record the following details in respect of the bypassing of any of the appropriate treatment processes required in this licence which occurs for more than 30 minutes on any day and which may adversely affect the quality of the final effluent:

- (a) the estimated starting time, and duration, of the bypass
- (b) the most likely cause of the bypass
- (c) the name of the treatment process or processess bypassed

(d) the estimated volume of waste that bypassed any treatment process

M6.4 For the purpose of condition M6.2 the alternative method approved by the EPA is as follows:

Monitoring Point	Frequency	Method
12	In the event of failure of the Total Volume Flow Meter (Point 12 (F1)) and no bypass occurring	The treated volume flow meter (Point 13 (F2))
12	In the event of failure of the Total Volume Flow Meter (Point 12 (F1)) and bypass occurring	Pump hours run times pump flow rate (L/s) of all operating pumps in the primary pump station, provided that all variable speed pumps are running at maximum speed
13	In the event of failure of the Treated Volume Flow Meter (Point 13 (F2)) and no bypass occurring	Total Volume (Point 12 (F1)) flow meter
13	In the event of failure of the Treated Volume Flow Meter (Point 13 (F2)) and bypass occurring	Pump hours run times pump flow rate (L/s)
14	In the event of failure of the Sludge Volume Flow Meter (Point 14 (F3))	Pump hours run times pump flow rate (L/s)
17	In the event of failure of the total volume flow meter	Level sensing Venturi Flume

M7 Sludge, scum and dilution quality monitoring

M7.1 The licensee must measure the following parameter for each monitoring point specified at the frequency and using the method specified for each parameter:

Point 4

Parameter	Unit of measure	Frequency	Sampling method
Total solids	Expressed as a percentage by weight	Every 6 days	Grab sample

Point 10

Parameter	Unit of measure	Frequency	Sampling method
Total solids	Expressed as a percentage by weight	Every 6 days	Grab sample

Point 11

Parameter	Unit of measure	Frequency	Sampling method
Total solids	Expressed as a percentage by weight	Every 6 days	Grab sample

M8 Biosolids monitoring

M8.1 On-premises management of biosolids produced at the premises must be 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 locations other than the

premises.

6 Reporting conditions

R1 Annual return documents

What documents must an Annual Return contain?

- 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.
- A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before 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.

Period covered by Annual Return

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

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.

- 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.

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

- 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.

Deadline for Annual Return

- 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').

Notification where actual load can not be calculated

- 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.

Licensee must retain copy of Annual Return

- 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.

Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary

- R1.8 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.
- R1.9 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.

R2 Notification of environmental harm

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the EPA's Pollution 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.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- (a) where this licence applies to premises, an event has occurred at the premises; or
 - (b) 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:

- (a) the cause, time and duration of the event;
- (b) the type, volume and concentration of every pollutant discharged as a result of the event;
- (c) 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; and
- (d) 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;
- (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event;
- (g) 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 Report of Beach Monitoring

R4.1 The licensee is to forward the results of monitoring required in conditions M2.1 Point 5, M2.1 Point 6, M2.1 Point 7, M2.1 Point 8 and M2.1 Point 9 to the EPA Beachwatch Unit as soon as they become available.

General conditions

G1 Copy of licence kept at the premises

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.

Pollution studies and reduction programs

U1 Not applicable.

Special conditions

E1 Not applicable.

Dictionary

General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

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 1998
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 1998
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
BOD	Means biochemical oxygen demand
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 1998.
flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
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
industrial waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

	1997
inert 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 1998
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.
reprocessing of 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
solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
treatment of waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TSP	Means total suspended particles
TSS	Means total suspended solids
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 code	Means the waste codes listed in Appendix 5 of the EPA document A Guide to Licensing Part B.
waste type	Means Group A, Group B, Group C, inert, solid, industrial or hazardous waste

Mr Grahame Clarke

Acting Head Regional Operations Unit **Hunter**

(By Delegation)

Date of this edition - 23-Oct-2000

End Notes

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|---|---|
| 1 | Licence varied by notice V/M upgrade, issued on 06-Jul-2000, which came into effect on 06-Jul-2000. |
| 2 | Licence varied by notice 1002102, issued on 23-Oct-2000, which came into effect on 17-Nov-2000. |