



Licence number	L8703/2012/1
Licence holder	Water Corporation
ACN	28 033 434 917
Registered business address	629 Newcastle Street LEEDERVILLE WA 6000
DWER file number	2012/004368
Duration	21/01/2013 to 20/01/2036
Date of issue	18/01/2013
Premises details	Williams Wastewater Treatment Plant via Cemetery Road WILLIAMS WA 6391 Being Lot 501 on Plan 66270 as depicted in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 54: Sewage facility: premises – (a) On which sewage is treated (excluding septic tanks); or (b) From which treated sewage is discharged onto land or into waters.	150 cubic metres per day

This licence is granted to the licence holder, subject to the attached conditions, on 14 September 2020, by:

Abbie Crawford
Senior Environmental Officer, Industry Regulation

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

Environmental Protection Act 1986

Licence number: L8703/2012/1 (14/09/2020)

File number: 2012/004368

Licence history

Date	Reference number	Summary of changes
18/01/2013	L8703/2012/1	<i>Licence granted</i>
26/05/2016	L8703/2012/1	<i>Amendment initiated by occupier – addition of liquid copper dosing unit and aerators to reduce algal loads and inhibit algal growth</i>
10/11/2016	L8703/2012/1	<i>Amendment initiated by occupier – removal of requirement for continuous Chlorine monitoring in preference to monthly total chlorine residual and free chlorine residual spot sampling.</i>
14/09/2020	L8703/2012/1	<i>This amendment and amalgamation of the Licence</i>

Interpretation

In this licence:

- (a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Environmental Protection Act 1986

Licence number: L8703/2012/1 (14/09/2020)

File number: 2012/004368

Licence conditions

The licence holder must ensure that the following conditions are complied with:

General conditions

1. The Licence Holder shall operate and maintain all pollution control (chlorination unit) and monitoring equipment (meters, monitoring and sampling points, monitoring bores) to the manufacturer's specification or any relevant and effective internal management system.
2. The Licence Holder shall immediately recover or remove and dispose of any spills outside of an engineered containment system.

Premises operation

3. The Licence Holder shall only accept waste onto the Premises if:
 - (a) It is of a type listed in Table 1;
 - (b) The quantity accepted is below any quantity limit listed in Table 1; and
 - (c) It meets any specification listed in Table 1.

Table 1: Waste acceptance

Waste type	Controlled waste code	Quantity limit	Specification ¹
Sewage	K130	Total of 150 cubic metres per day	<ol style="list-style-type: none">1. Accepted through sewer inflows; and/or2. Tankered into the premises and discharged via the WWTP pre-treatment works during emergency events or maintenance works.

Note 1: Additional requirements for the acceptance of controlled waste are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

4. The Licence Holder shall ensure that where waste does not meet the waste acceptance criteria set out in condition 3, it is removed from the Premises by the delivery vehicle or, where that is not possible, the Licence Holder shall contact the CEO to agree a course of action in relation to the waste.
5. The Licence Holder shall ensure that wastes accepted onto the Premises are only subjected to the process(es) set out in Table 2 and in accordance with any process limits described in that table.

Table 2: Waste processing

Waste type	Process	Process requirements
Sewage	Physical, chemical and biological treatment	<ol style="list-style-type: none"> 1. Treatment of sewage waste shall be at or below the treatment capacity of 150m³/day; 2. Sewage sludge to be directed to sludge drying bed; 3. Treated wastewater to only be discharged from final 'pond 4' to Shire storage pond or to the Shire storage tank (as defined in Schedule 1: Maps); 4. Collected vegetation/floating debris removed from the treatment ponds to be disposed of to landfill.

6. The Licence Holder shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 3.

Table 3: Containment infrastructure

Vessel or compound	Material	Requirements
Primary ponds (ponds 1A and 1B)	Wastewater	<ol style="list-style-type: none"> 1. Clay lined to achieve a permeability of 10⁻⁹ m/s or equivalent; 2. Maintains a minimum depth of 1.4 m; 3. Maintains a minimum freeboard of 0.4 m; 4. Designed to contain 3,883 m³; 5. Each pond to operate in parallel with a single outlet (diagonally opposed) to discharge to pond 2.
Secondary ponds (pond 2 and 3)	Wastewater	<ol style="list-style-type: none"> 1. Clay lined to achieve a permeability of 10⁻⁹ m/s or equivalent; 2. Maintains a minimum depth of 1.4 m; 3. Maintains a minimum Freeboard of 0.4 m; 4. Contains the copper dosing inlet point.
Storage pond (pond 4)	Treated wastewater	<ol style="list-style-type: none"> 1. Designed to contain 13 ML; 2. Contains two aerators; 3. Includes a single discharge point to the offsite Shire "Railway Dam" (size 5-7 ML) or the Shire storage tank.

Vessel or compound	Material	Requirements
Sludge drying bed	Sewage sludge	<ol style="list-style-type: none"> 1. Temporary or permanent infrastructure to consist of a bunded Hardstand or lined area to achieve a permeability of less than 1×10^{-9} m/s, capable of preventing surface run-off of Leachate and sludge and which includes a Leachate collection system. 2. The sewage sludge drying bed should be managed such that: <ul style="list-style-type: none"> • Stormwater runoff is prevented from entering the area; • Discharges/Leachate from the drying bed area to be directed to the primary ponds (1A and/or 1B).

7. The Licence Holder shall manage the wastewater treatment vessels such that:
 - (a) Overtopping of the ponds does not occur; and
 - (b) Stormwater runoff is prevented from entering the vessels; and
 - (c) The integrity of the containment infrastructure and facility operation is maintained; and
 - (d) Vegetation and floating debris (emergent or otherwise) is prevented from growing or accumulating in the vessels.
8. The Licence Holder shall:
 - (a) Implement security measures at the Premises to prevent as far as is practical unauthorised access to the Premises;
 - (b) Undertake regular inspections of all security measures and repair damage as soon as practicable; and
 - (c) Ensure the entrance gates are closed and locked when the Premises is closed or unmanned.

Emissions

9. The Licence Holder shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of this Licence.
10. The Licence Holder shall ensure that where waste is emitted to land from the emission points in Table 4 , and identified on the map of emission points in Schedule 1, Figure 2, it is done so in accordance with the conditions of this Licence.

Table 4: Emissions to land

Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
S7013055 (as per Schedule 1: Maps)	Final treatment pond – Storage pond, Pond 4	Discharge of wastewater from final treatment pond, to Shire refuse pond 'Railway Dam' or Shire storage tank	Treated wastewater from final treatment pond only

Monitoring

11. The Licence Holder shall ensure that:
 - (a) All water samples are collected and preserved in accordance with AS/NZS 5667.10;
 - (b) All wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - (c) All microbiological samples are collected and preserved in accordance with AS/NZS 2031; and
 - (d) All laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.
12. The Licence Holder shall ensure that:
 - (a) Monthly monitoring is undertaken at least 15 days apart; and
 - (b) Annual monitoring is undertaken at least 9 months apart.
13. The Licence Holder shall ensure that all monitoring equipment used at the Premises complies with the conditions of this Licence and is calibrated in accordance with manufacturer's specifications.
14. The Licence Holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.
15. The Licence Holder shall undertake the monitoring in Table 5 according to the specifications in that table.

Table 5: Monitoring of emissions to land

Emission point reference	Monitoring point reference	Parameter	Units	Averaging period	Frequency
S7013082 – final effluent sample point (as per Schedule 1: Maps)	Sampling point from Effluent Pressure Main Discharge	pH ¹	-	Spot sample	Monthly
		Biological Oxygen Demand	mg/L		
		Total Dissolved Solids			
		Total Suspended Solids			

Emission point reference	Monitoring point reference	Parameter	Units	Averaging period	Frequency
	Chamber (SP Williams WWTP 2 - Post Chlorination)	Nitrate + Nitrite – nitrogen			
		Ammonium – nitrogen			
		Total Nitrogen			
		Total Phosphorus			
		Total and filtered Copper			
		Total residual Chlorine			
		<i>Escherichia coli</i> ²	cfu/100 mL		
		Total Nitrogen	kg/year	Annual	Continuous
		Total Phosphorus	Kg/year		

Note 1: In-situ non-NATA accredited sampling permitted.

Note 2: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.

16. The Licence Holder shall undertake the monitoring in Table 6 according to the specifications in that table.

Table 6: Monitoring of inputs and outputs

Input/output	Monitoring point reference	Parameter ¹	Units	Averaging period	Frequency
Sewage – Inlet Flow (as per Schedule 1: Maps)	Inlet sample point S7012959	Volumetric flow rate (cumulative) or mass balance calculation	m ³ /day	Monthly	Continuous
Treated wastewater discharged to Shire reuse pond 'Railway Dam' (as per Schedule 1: Maps)	Magaflow meter - S7013055	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous

Note 1: In-field non-NATA accredited analysis permitted.

Information

- 17.** All information and records required by the Licence shall:
- (a) Be legible;
 - (b) If amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in sub condition 17(d)(d), be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 18.** The Licence Holder shall complete an Annual Audit Compliance Report indicating the extent to which the Licence Holder has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the premises for the previous annual period.
- 19.** The Licence Holder shall implement a complaints management system that, as a minimum, records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.
- 20.** The Licence Holder shall submit to the CEO an Annual Environmental Report within 63 calendar days after the end of the annual period (1 September). The report shall contain the information listed in Table 7 in the format or form specified in that table.

Table 7: Annual environmental report

Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 1	Summary of Waste acceptance	None specified
Table 6	Summary of Monitoring of emissions to land	None specified
Table 6	Summary of Monitoring of inputs/ outputs	None specified
18	Compliance	Annual Audit Compliance Report (AACR)
19	Complaints summary	None specified

Note 1: Forms are in Schedule 2.

21. The Licence Holder shall ensure that the Annual Environmental Report also contains:
- (a) Any relevant process, production or operational data recorded;
 - (b) An assessment of the information contained within the report against previous monitoring results and Licence limits; and
 - (c) Any changes to site boundaries and on-site or offsite impacts or pollution.
22. The Licence Holder shall submit the information in Table 8 to the CEO according to the specifications in that table.

Table 8: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	Copies of original monitoring reports submitted to the Licence Holder by third parties	Not applicable	Within 14 days of the CEOs request	As received by the Licence Holder from third parties
-	Record of tankered third party waste (date/ time)	Not applicable		None specified.

23. The Licence Holder shall ensure that the parameters listed in Table 9 are notified to the CEO in accordance with the notification requirements of the table.

Table 9: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	Taking process equipment offline for maintenance works that may result in increased odour emissions	No less than 72 hours in advance of works.	None specified
3 and 5	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1
14	Calibration report	As soon as practicable.	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

Definitions

In this licence, the terms in Table 10 have the meanings defined.

Table 10: Definitions

Term	Definition
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
Annual Period	a 12-month period commencing from 1 January until 31 December of the immediately following year.
AS/NZS 2031	means the Australian Standard AS/NZS 2031:2001 Selection of containers and preservation of water samples for microbiological analysis
AS/NZS 5667.10	Means the AS/NZS 5667.10:1998 Water quality - Sampling Guidance on sampling of waste waters
Averaging Period	means the time over which a limit is measured or a monitoring result is obtained
Books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Compliance Report	means a report in a format approved by the CEO as presented by the Licence Holder or as specified by the CEO (guidelines and templates available on the Department's website)
Controlled waste	has the definition in <i>Environmental Protection (Controlled Waste) Regulations 2004</i>
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.

Term	Definition
Discharge	has the same meaning given to that term under the EP Act.
Emission	has the same meaning given to that term under the EP Act
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
Hardstand	means a surface with a permeability of 1×10^{-9} metres/second or less
Leachate	means liquid released by or water that has percolated through waste and which contains some of its constituents
Licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
Licence Holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
ML	Megalitres
NATA	means the National Association of Testing Authorities, Australia
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis
Premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1, Figure 1, to this licence.
Prescribed Premises	has the same meaning given to that term under the EP Act
Spot sample	means a discrete sample representative at the time and place at which the sample is taken
Waste	has the same meaning given to that term under the EP Act
Waste Code	means the Waste Code assigned to a type of controlled waste for purposes of waste tracking and reporting as specified in the Department's "Controlled Waste category list" (May 2018), as amended from time to time

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Term	Definition
Wastewater treatment vessels	means any vessel, pond or tank containment infrastructure associated with the treatment of wastewater

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the Prescribed Premises is shown in the map below (Figure 1). The pink line depicts the Premises Boundary.

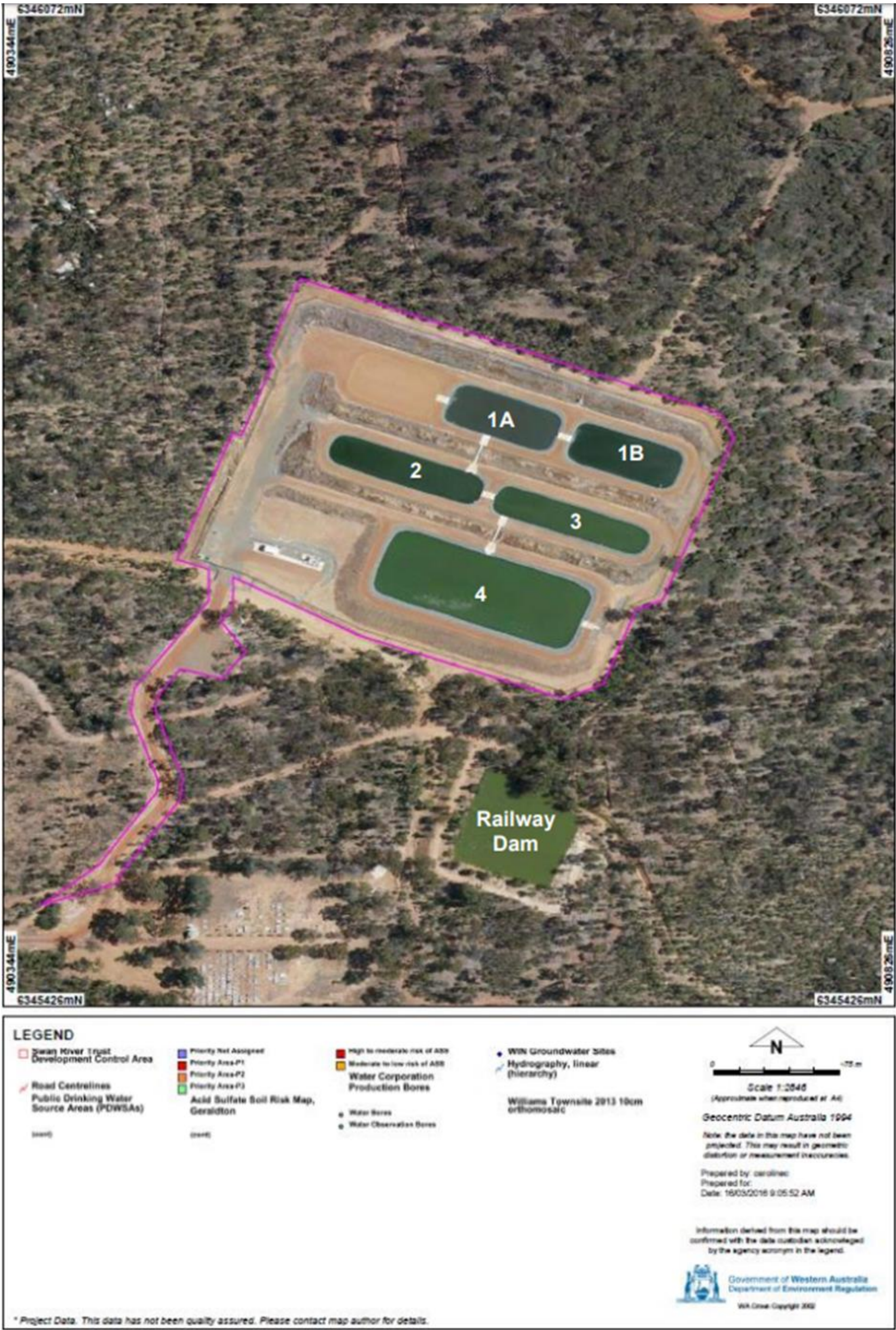


Figure 1: Map of the boundary of the Prescribed Premises

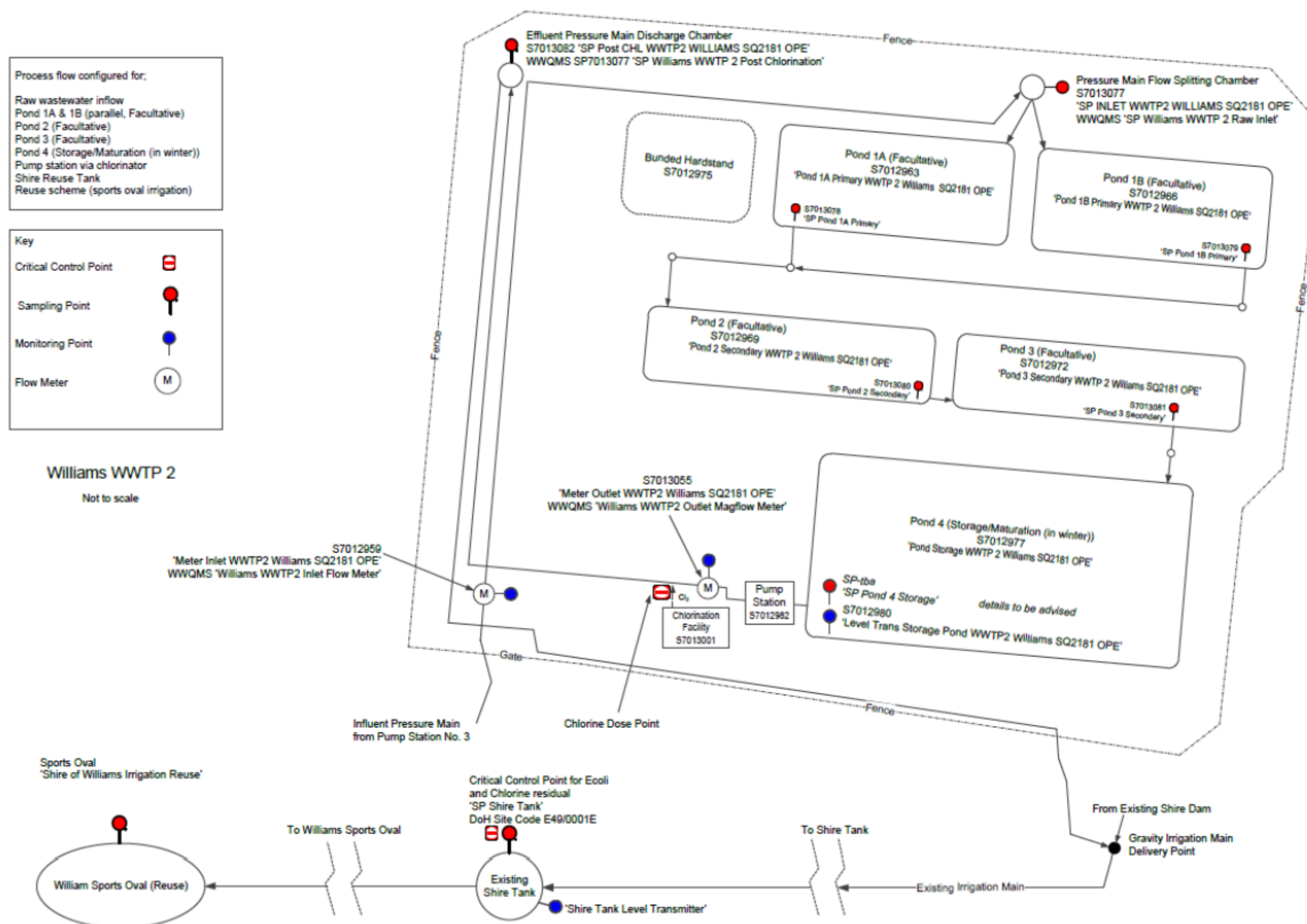


Figure 2: Map of emission and monitoring points

Schedule 2: Reporting and notification forms

Licence:

Licence holder:

Form: N1

Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence number	
Name of operator	
Location of premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of licence holder	
Date	