



Licence Number	L6004/1992/12	
Licence Holder	Water Corporation	
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007	
File Number	2011/007522-1	
Duration	23/10/2014 to	31/10/2023
Date of amendment	2 September 2021	
Prescribed Premises	Category 54 As defined in Schedule 2	
Premises	Collie Wastewater Treatment Plant Mungalup Road COLLIE WA 6225 Being part of State Forest 4 as depicted by the coordinates in Schedule 3	

This Licence is granted to the Licence Holder, subject to the following conditions, on 2 September 2021, by:

Abbie Crawford
A/MANAGER, WASTE INDUSTRIES
REGULATORY SERVICES

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

Contents

Contents	2
Introduction	2
Licence conditions	5
1 General	5
2 Emissions	11
3 Monitoring	12
4 Improvements	15
5 Information	15
Schedule 1: Maps	19
Schedule 2: Prescribed Premises Categories	24
Schedule 3: Premises boundary coordinates	25

Introduction

This Introduction is not part of the Licence conditions.

DWER's industry licensing role

The Department of Water and Environmental Regulation (DWER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER works with the business owners, community, consultants, industry and other representatives to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the Act. Conditions contained within the licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/licence holder the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link: <http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Other Guidelines which you should be aware of include:

- *Western Australian Guidelines for Biosolids Management*, Department of Environment and Conservation, December 2012 (as amended from time to time).

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

The Collie wastewater treatment plant (Collie WWTP) is situated on Mungalup Road approximately 6km south of Collie. The treatment plant was established in 1992 and serves a nominal population of approximately 11 000. The plant has a capacity to treat 2 200 cubic metres of wastewater per day.

The Collie WWTP treats wastewater using the IDEA (Intermittent Decanted Extended Aeration) system to an advanced tertiary standard. It consists of two sequence batch reactors (SBR's). Filtered and disinfected treated wastewater is pumped 4 kilometers to a 1.25 km effluent infiltration channel situated in natural bushland at the headwaters of Lyalls Brook. Waste activated sludge is dewatered on site and disposed of to landfill. Dewatering centrate is returned to the treatment process.

The plant is surrounded by Crown Land, there are no direct neighbours to the plant. The closest resident is located 1 km northwest of the plant. The main potential emission from the site is the release of untreated and partially treated wastewater due to overloading. In August 2014, Water Corporation was issued a Works Approval to increase the capacity of

the final storage pond to reduce the frequency of discharging due to increased flows from heavy rain.

The licence was amended on 2 September 2021 to upgrade the sludge dewatering system from a mechanical process to decanter centrifuges, sludge conveyors and hopper and polymer dosing system. The old sludge dewatering system (belt filter presses) will be decommissioned.

The licences issued for the Premises since 05/10/2000 are:

Instrument log		
Instrument	Issued	Description
W2772/1992/1	27/07/1999	Works approval
L6004/1992/5	05/10/2000	Licence re-issue
L6004/1992/6	05/10/2001	Licence re-issue
L6004/1992/7	01/10/2002	Licence re-issue
L6004/1992/8	01/10/2003	Licence re-issue
L6004/1992/9	01/10/2004	Licence re-issue
L6004/1992/10	01/11/2008	Licence re-issue
L6004/1992/11	20/10/2011	Licence re-issue
W5705/2014/1	29/08/2014	Works approval for increase in storage capacity for final dam
L6004/1992/12	23/10/2014	Licence re-issue and amendment to new format
L6004/1992/12	13/09/2019	Licence amendment to extend licence duration by 4 years
L6004/1992/12	02/09/2021	Licence amendment to upgrade sludge dewatering system

Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

‘AACR’ Annual Audit Compliance Report means a report in a format approved by the CEO as presented by the licence holder or as specified by the CEO from time to time and published on the Department’s website.

‘Act’ means the *Environmental Protection Act 1986*;

‘AHD’ means the Australian height datum;

‘annual period’ means the inclusive period from 1 July until 30 June in the following year;

‘AS/NZS 2031’ means the Australian Standard AS/NZS 2031 *Selection of containers and preservation of water samples for microbiological analysis*;

‘AS/NZS 5667.1’ means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

‘AS/NZS 5667.6’ means the Australian Standard AS/NZS 5667.6 *Water Quality – Sampling – Guidance on sampling of rivers and streams*;

‘AS/NZS 5667.10’ means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

‘AS/NZS 5667.11’ means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

‘averaging period’ means the time over which a limit or target is measured or a monitoring result is obtained;

‘CEMS’ means continuous emissions monitoring system;

‘code of practice for the storage and handling of dangerous goods’ means document titled “Storage and handling of dangerous goods: Code of Practice” published by the Department of Mines and Petroleum, as amended from time to time;

‘controlled waste’ has the definition in Environmental Protection (Controlled Waste) Regulations 2004.

‘dangerous goods’ has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

‘CEO’ means Chief Executive Officer of the Department of Water and Environmental Regulation;

‘CEO’ for the purpose of correspondence means;

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 10
JOONDALUP DC WA 6027
Telephone: (08) 6367 7000
Facsimile: (08) 6367 7001
Email: info@dwer.wa.gov.au

‘DWER’ means Department of Water and Environmental Regulation;

‘environmentally hazardous material’ means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

‘freeboard’ means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

‘fugitive emissions’ means all emissions not arising from point sources identified in Sections 2.2, 2.3, 2.4 and 2.5;

‘hardstand’ means a surface with a permeability of 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’ means this Licence numbered L6004/1992/12 and issued under the Act;

‘licence holder’ means the person or organisation named as licence holder on page 1 of the Licence;

‘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’ means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

“qualified structural or civil engineer” means a person who:

- a) holds a Bachelor of Engineering recognised by Engineers Australia;
- b) has a minimum of five years of experience working in a supervisory area of civil or structural engineering; and
- c) is an independent third party external to the works approval holder; or
- d) is otherwise approved in writing by the CEO to act in this capacity

“relevant environmental guidelines” means the Department of Environment and Conservation guideline, *Assessment Levels for Soil, Sediment and Water* (February 2010), as amended from time to time;

‘Schedule 1’ means Schedule 1 of this Licence unless otherwise stated;

‘Schedule 2’ means Schedule 2 of this Licence unless otherwise stated;

‘spot sample’ means a discrete sample representative at the time and place at which the sample is taken; and

‘wastewater treatment vessels’ means any vessel or tank containment infrastructure associated with the treatment of wastewater.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the current version of that standard.

1.1.4 Any reference to a guideline or code of practice in the Licence means the current version of the guideline or code of practice.

1.2 General conditions

1.2.1 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2.2 The licence holder shall operate and maintain all pollution control and monitoring equipment to the manufacturer’s specification or any relevant and effective internal management system.

1.2.3 The licence holder, except where storage is prescribed in section 1.4, shall ensure that environmentally hazardous substances are stored in accordance with the Code of Practice for the Storage and handling of dangerous goods.

1.2.4 The licence holder shall immediately recover or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.5 The licence holder shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

Note1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.

1.2.6 The licence holder must construct and/or install the infrastructure listed in Table 1.2.6, in accordance with;

- (a) the corresponding design and construction requirement / installation requirement; and
- (b) at the corresponding infrastructure location; as set out in Table 1.2.6.

Table 1.2.6: Design and construction requirements / installation requirements

Infrastructure	Design and construction requirements	Infrastructure location
New sludge dewatering system – Decanter Centrifuges	<p>Construction of a new sludge dewatering building to house the centrifuge and system, incorporating impervious concrete flooring which is sufficiently graded and bunded to contain spills or accidental discharges to land/water.</p> <p>New centrifuge sludge dewatering system to be housed in a steel fabrication; All hoppers, sumps and/or conveyancing infrastructure to be lined with, or constructed of impervious material and free of leaks and defects.</p> <p>The construction of new centrifuge sludge dewatering system to occur whilst retaining operation of existing sludge dewatering system until successful commissioning of new system.¹</p>	STP Development Footprint as depicted in Premises Map in Schedule 1
Hazardous chemical and hydrocarbon storage area	<p>Must be bunded and compliant with AS1940</p> <p>Hardstand areas to be impervious and sufficiently graded and bunded to contain spills or accidental discharges to land/waters.</p>	STP Development Footprint as depicted in Premises Map in Schedule 1

Note 1: No Environmental Commissioning Report is required for this requirement

1.3 Construction compliance reporting

1.3.1 The licence holder must, within 30 calendar days of the finalisation of construction of each item of infrastructure required by condition 1.2.6:

- (a) Undertake an audit of their compliance with the requirements of condition 1.2.6; and
- (b) Prepare and submit to the CEO an Environmental Compliance Report on that compliance.

1.3.2 The Environmental Compliance Report required by condition 1.3.1, must include as a minimum the following:

- (a) Certification by a qualified structural or civil engineer that the items of infrastructure or components thereof, as specified in condition 1.2.6, have been constructed in accordance with the relevant design and construction requirements specified in Table 1.2.6;
- (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1.2.6; and
- (c) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.

- 1.3.3 The licence holder must only commence operations for the item of infrastructure identified in condition 1.2.6 when the requirement of condition 1.3.1 has been submitted by the licence holder for that item of infrastructure, unless condition 1.2.6 states that no Environmental Compliance Report is applicable for that item.

1.4 Premises operation

- 1.4.1 The licence holder shall record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.
- 1.4.2 The licence holder shall only allow waste to be accepted on to the Premises if:
- (a) it is of a type listed in Table 1.4.1;
 - (b) the quantity accepted is below any limit listed in Table 1.4.1; and
 - (c) it meets any specification listed in Table 1.4.1

Table 1.4.1: Waste acceptance

Waste	Quantity Limit	Specification ¹
Sewage – waste from the reticulated sewerage system	None specified	Accepted through sewer inflow(s) only

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

- 1.4.3 The licence holder shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.4.2 and in accordance with any process requirements described in that table.

Table 1.4.2: Waste processing

Waste type	Process	Process requirements
Sewage	Physical, biological and chemical treatment Sequence Batch Reactor (SBR)	Treatment of sewage waste shall be targeted at or below the treatment capacity of 2 200 m ³ /day.
Sewage sludge	Treatment and storage	Following commissioning of the sludge dewatering system, and in accordance with condition 1.3.3: (i) Sludge shall only be treated through the decanter centrifuge system that dewater sludge to meet the requirements of the <i>Western Australian Guidelines for Biosolids Management</i> , Department of Environment and Conservation (December, 2012); (ii) Dispose of sludge and biosolids in accordance with the document <i>Western Australian Guidelines for Biosolids Management</i> , Department of Environment and Conservation (December, 2012).

1.4.4 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 1.4.3.

Table 1.4.3: Containment infrastructure		
Vessel or compound	Material	Requirements
Inlet works	Grit and screenings	Stored in a sealed bin which is on a bunded hardstand
SBR Basins (2 basins)	Wastewater	Concrete lined to achieve a permeability of at least $<10^{-9}$ m/s or equivalent
Treated wastewater holding tanks (Tank # 1 and Tank #2)	Treated wastewater	Concrete lined to achieve a permeability of at least $< 1 \times 10^{-9}$ m/s or equivalent
Aerobic sludge digesters (2 digestors)	Untreated and un-dewatered sewage sludge	(i) Store un-dewatered sludge from the treatment plant within concrete lined storage areas; (ii) No overtopping of sludge hoppers, leachate sumps or other dewatering equipment infrastructure to occur; and (iii) All chemicals must be stored in purpose-built areas that comply with AS3780.
Sludge dewatering system		
Sludge dewatering (belt press)	Dewatered sewage sludge	Until the decanter centrifuges are commissioned, dewatered sludge must be stored within a bunded concrete hardstand area capable of preventing surface run-off of leachate and sludge and which returns sludge leachate to the start of the treatment process.
Sludge dewatering (decanter centrifuges)	Dewatered sewage sludge	(iv) Dewater and store un-dewatered sludge from the treatment plant must be stored within concrete lined storage areas; (v) Containment must be designed to prevent surface run-off; (vi) Leachate centrate to be routed to an impervious sump with cover and returned to the inlet works by impervious pipework; (vii) No overtopping of leachate sumps or dewatered sludge containment infrastructure to occur; and (viii) All chemicals must be stored in purpose-built areas that comply with AS3780.

1.4.5 The licence holder shall manage the wastewater treatment vessels such that:

- (a) overtopping of the wastewater treatment vessels does not occur;
- (b) stormwater runoff is prevented from entering the wastewater treatment vessels;
- (c) there is no discernible seepage loss from the wastewater treatment vessels; and
- (d) vegetation and floating debris (emergent or otherwise) are prevented from growing or accumulating in the wastewater treatment vessels;

1.4.6 The licence holder shall:

- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;

- (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 site is closed or unmanned.

1.4.7 The licence holder shall manage the effluent infiltration channel(s) such that:

- (a) treated wastewater is distributed evenly along the channel(s) to minimise soil erosion and surface ponding of wastewaters;
- (b) no run-off or discharge occurs beyond the boundary of the defined infiltration channel;
- (c) zones of permanent/semi-permanent water (upper reaches of the channel – as defined in Schedule 1) should be kept clear of vegetation to minimise potential for mosquito breeding, and transient/ephemeral wet zones (such as banks and lower reaches of the channel – as defined in Schedule 1) may sustain reeds and other vegetation (not declared weeds) to encourage evapotranspiration and nutrient uptake;
- (d) sludges are removed from the base of the channel to maintain the infiltration performance; and
- (e) warning signs are maintained along the length of the effluent channel to inform the public of the source and quality of water in the channel.

1.4.8 The licence holder shall not allow surface discharge from the effluent channel into Lyalls Brook while there is no surface flow within the Lyalls Brook.

2 Emissions

2.1 General

2.1.1 The licence holder shall record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.

2.2-2.4 Point source emissions to air, surface water and groundwater

There are no specified conditions relating to point source emissions to air, surface water and groundwater in this section

2.5 Emissions to land

2.5.1 The licence holder shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this licence.

Table 2.5.1: Emissions to land

Emission point reference	Description	Source including abatement
L1	Offsite effluent discharge point at the effluent infiltration channel up stream of Lyalls Brook (W6114901).	Treated wastewater from IDEA plant (Treated wastewater holding tank 2) post chlorination

2.5.2 The licence holder shall target emissions to land at or below the levels specified in Table 2.5.2.

Table 2.5.2: Emission targets to land

Emission point reference	Parameter	Target (including units)	Averaging period
L1	Biochemical Oxygen Demand	20 mg/L	Spot sample
	Total Suspended Solids	20 mg/L	
	Total Nitrogen	10 mg/L	
	Total Phosphorus	2 mg/L	
	Escherichia coli	150 cfu/100mL	

2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.

2.7 Odour

- 2.7.1 The licence holder shall ensure that odour emitted from the Premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises.

2.8 Noise

There are no specified conditions relating to noise in this section.

3 Monitoring

3.1 General monitoring

- 3.1.1 The licence holder shall ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - (c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11
 - (d) all microbiological samples are collected in accordance with AS/NZS 2031; and
 - (e) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.
- 3.1.2 The licence holder shall ensure that:
- (a) monthly monitoring is undertaken at least 15 days apart;
 - (b) quarterly monitoring is undertaken at least 45 days apart;
- 3.1.3 The licence holder shall record production or throughput data and any other process parameters relevant to any non-continuous monitoring undertaken.
- 3.1.4 The licence holder shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications and the requirements of the Licence.
- 3.1.5 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 Director accompanied with a report comprising details of any modifications to the methods.

3.2-3.4 Monitoring of point source emissions to air, surface water and groundwater

There are no specified conditions relating to monitoring of point source emissions to air, surface water or groundwater in this section.

3.5 Monitoring of emissions to land

3.5.1 The licence holder shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of emissions to land					
Emission point reference	Monitoring point reference and location on Map of Monitoring points	Parameter	Units	Averaging Period	Frequency
L1	M1 - Discharge from Treated wastewater holding tank # 2, post chlorination	pH ¹	-	Spot Sample	Monthly
		Biochemical Oxygen Demand	mg/L		
		Total Dissolved Solids (calculated from conductivity)			
		Total Suspended Solids			
		Nitrate+ Nitrite nitrogen			
		Ammonium-nitrogen			
		Total Nitrogen			
		Total Phosphorus			
		Escherichia coli.	cfu/100 mL		Monthly

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

3.6 Monitoring of inputs and outputs

3.6.1 The licence holder shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs

Input/Output	Monitoring point location	Parameter	Units	Averaging period	Frequency
Sewage - Inlet Flow	Inflow meter	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Treated wastewater discharged to infiltration area ¹					

Note 1: calculated from inflow data

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8 Ambient environmental quality monitoring

- 3.8.1 The licence holder shall undertake the monitoring in Tables 3.8.1 and 3.8.2 according to the specifications in that table and record and investigate results that do not meet any target specified.

Table 3.8.1: Monitoring of ambient surface water quality

Monitoring point reference and location on Map of Monitoring points.	Parameter	Units	Averaging period	Frequency
M2 – surface outflow of effluent channel to Lyalls Brook (W6114902)	Total Nitrogen	mg/L	Spot sample	Monthly (when Flowing)
	Total Phosphorus			
M3 –1.25km down stream (Lyalls Brook) of effluent infiltration channel (Q611038)	Escherichia coli	cfu/100mL		
M4 –2.5km down stream (Lyalls Brook) of effluent infiltration channel (Q611037)				

Table 3.8.2: Monitoring of ambient groundwater quality

Monitoring point reference and location on Map of monitoring points	Parameter	Units	Averaging period	Frequency
Offsite groundwater monitoring bores A, B, C, D	pH ¹	-	Spot sample	Quarterly
	Total Dissolved Solids (calculated from conductivity)	mg/L		
	Nitrate + Nitrite-nitrogen	mg/L		
	Ammonium-nitrogen	mg/L		
	Total Nitrogen	mg/L		
	Total Phosphorus	mg/L		
	Standing Water Level	m(AHD) and mBGL		

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

3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

4 Improvements

There are no specified improvement conditions in this section.

5 Information

5.1 Records

5.1.1 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 5.1.1(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.

- 5.1.2 The licence holder shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 5.1.3 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.
- 5.1.4 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.

5.2 Reporting

- 5.2.1 The licence holder shall submit to the CEO an Annual Environmental Report within 62 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual Environmental Report

Condition or table (if relevant)	Parameter	Format or form
-	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 1.2.6	Summary of any environmental commissioning undertaken during construction of infrastructure including timeframes and amount of wastewater processed.	
Table 1.4.2	Summary of any treatment capacity target exceedances and any action taken.	
Table 2.5.2	Summary of any emission to land target exceedances and any action taken.	
Table 3.5.1	Monitoring of emission to land data	
Table 3.6.1 & 3.5.1	Contaminant loading (kg/day and kg/ha/day – monthly average and total annual loading kg/yr and kg/ha/yr) to land of parameters monitored in Table 3.5.1 (except pH and E.coli.)	
Table 3.6.1	Monitoring of input and output data	
Table 3.8.1	Monitoring of ambient surface water quality data	
Table 3.8.2	Monitoring of ambient groundwater quality data	None specified
Table 3.8.1 and 3.8.2	Assessment of ambient surface water quality and groundwater quality monitoring results against relevant environmental guidelines	
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

- 5.2.2 The licence holder shall ensure that the Annual Environmental Report also contains:
- any relevant process, production or operational data recorded under Condition 3.1.3; and
 - an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

- 5.2.3 The licence holder shall submit the information in Table 5.2.2 to the CEO at the contact address according to the specifications in that table.

Table 5.2.2: 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

5.3 Notification

5.3.1 The licence holder shall ensure that the parameters listed in Table 5.3.1 are notified to the Director at the Contact Address and in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements

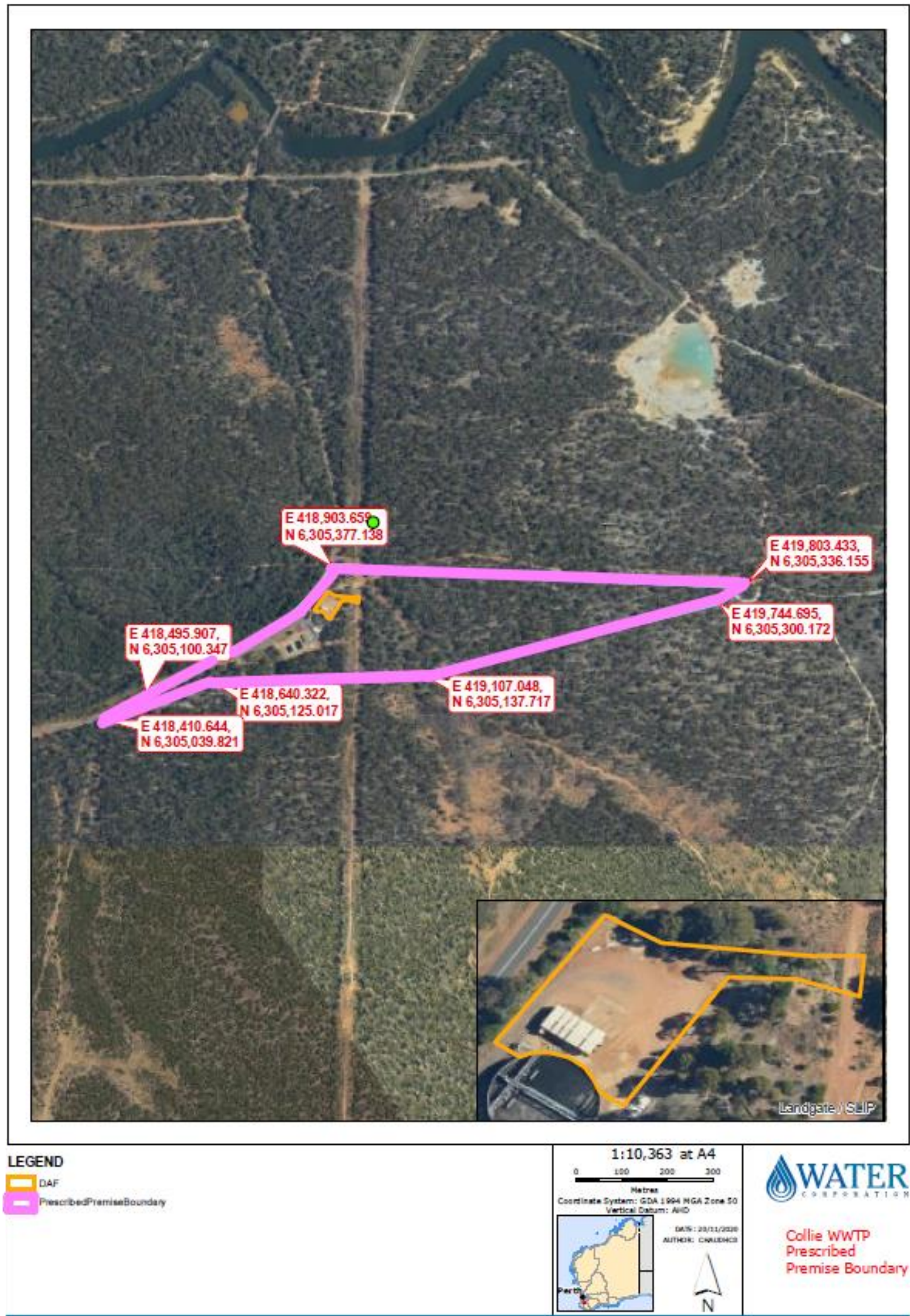
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form
2.1.1	Breach of any limit specified in the Licence	As soon as practicable	None Specified
	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		
3.1.5	Calibration report	As soon as practicable.	None specified

Note 1: No notification requirement in the Licence shall negate the requirement to comply with s72 of the Act.

Schedule 1: Maps

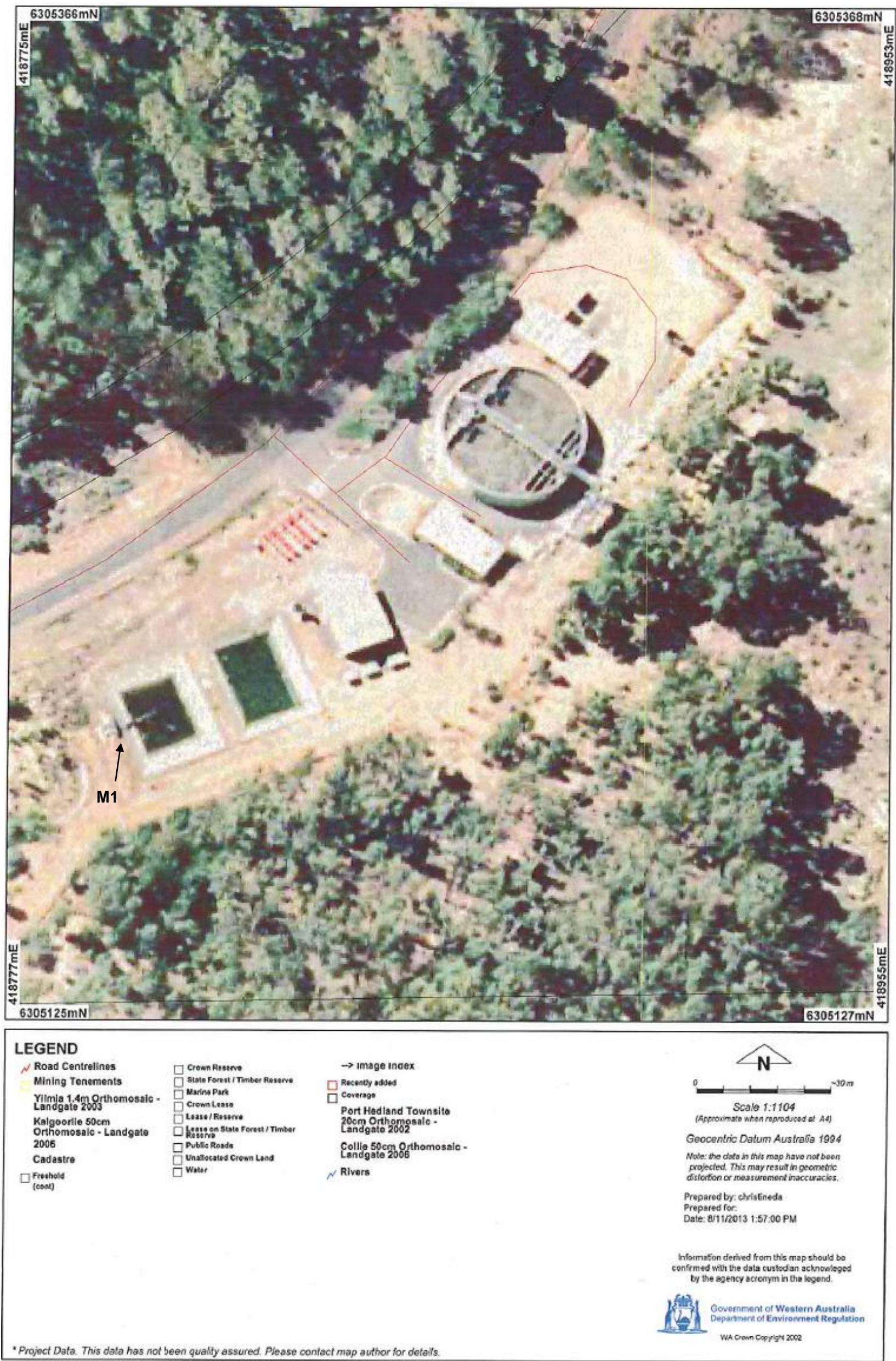
Premises map

The boundary of the prescribed premises is shown as pink red and the boundary of STP Development Footprint is shown as orange in the map below

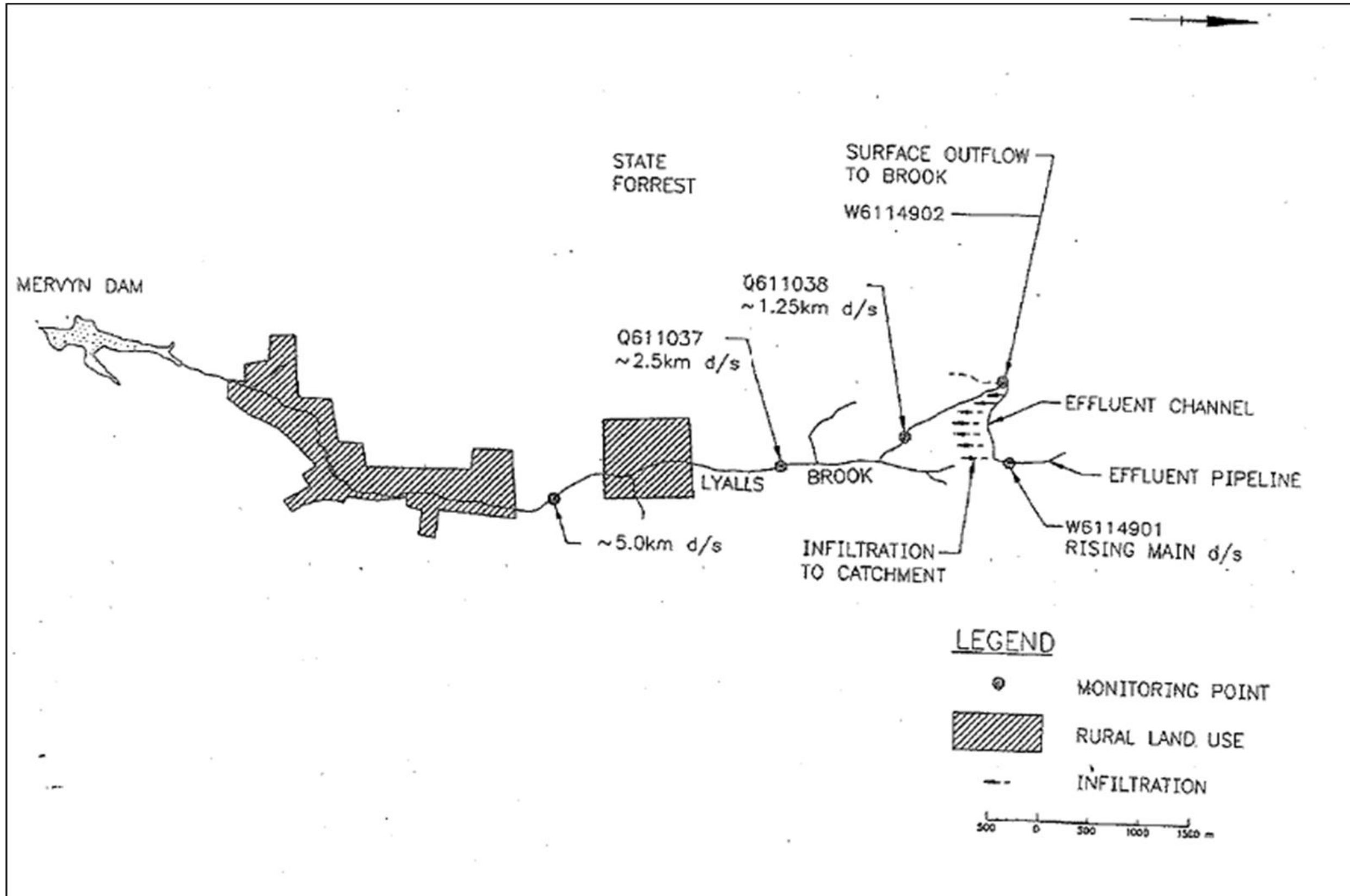


Map of monitoring locations

The locations of the monitoring points defined in Tables 3.5.1, 3.8.1 and 3.8.2 are shown in the maps below.



Location of Ambient Surface Water monitoring points



Location of Ambient Groundwater monitoring bores and infiltration channels

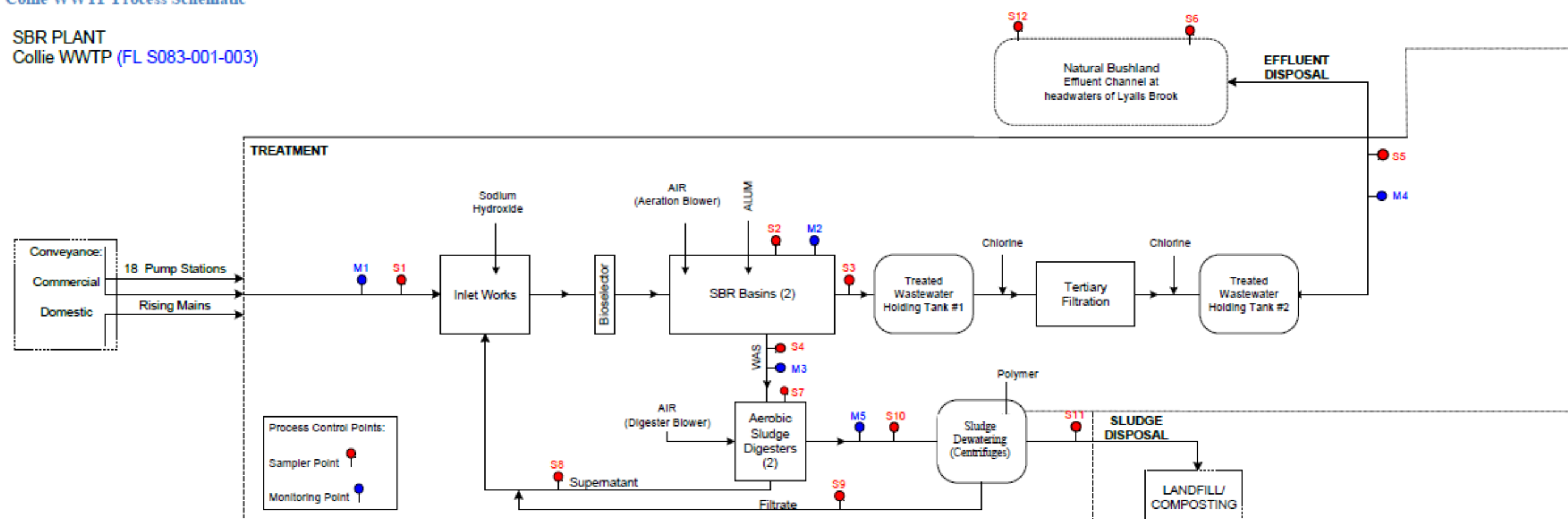


Process Schematic with monitoring and sampling points

Collie WWTP Process Schematic

SBR PLANT

Collie WWTP (FL S083-001-003)



Monitoring/Sampling Points	Sampling Points	Sampling Points
M1 S8000917 Collie WWTP Meter Inflow M2 S8006254 Collie WWTP Aeration Tank 1 M2 S8006255 Collie WWTP Aeration Tank 2 M2 S8006620 Collie WWTP Analyser DO SBR 1 M2 S8006621 Collie WWTP Analyser DO SBR 2 M2 Collie WWTP SBR 1 RAS Pump M2 Collie WWTP SBR 2 RAS Pump M3 S8000926 Collie WWTP WAS Pump Tank 1 M3 S8000927 Collie WWTP WAS Pump Tank 2 M4 S8006609 Collie WWTP Meter Outflow M5 S8008291 Collie WWTP Sludge Feed Flow M6 S8005352 Collie WWTP Bore 1/00 (Bore A) S8005353 Collie WWTP Bore 2/00 (Bore B) S8005354 Collie WWTP Bore 2 A/00 S8005355 Collie WWTP Bore 3/00 (Bore C) S8005356 Collie WWTP Bore 4/00 (Bore D)	S1 S8000051 SP Collie WWTP Raw Influent S2 S8006254 Collie WWTP Aeration Tank 1 S2 S8006255 Collie WWTP Aeration Tank 2 S3 S8000866 SP Collie WWTP Final Eff SBR 1 S3 S8020062 SP Collie WWTP Final Eff SBR 2 S4 SP Collie WWTP Waste Activated Sludge S5 S8021850 SP Collie WWTP Final Effluent ex Auto Sampler S6 S8006101 SP Collie WWTP Discharge U/S Lyles Brook S8000053 SP Collie WWTP Discharge 1.25 km DS (Q811038) S8000054 SP Collie WWTP Discharge 2.5 km DS (Q811037) S7 S8000922 Collie WWTP Digester Basin 1 S8000923 Collie WWTP Digester Basin 2 S8 S8020016 SP Collie WWTP Digester Supernatant S9 S8020015 SP Collie WWTP Belt Press Filtrate S10 SP Belt Press Feed Sludge S11 S8000931 SP Collie WWTP Sludge	S12 S8000713 SP Collie WWTP Bore 1/00 (Bore A) S8000714 SP Collie WWTP Bore 2/00 (Bore B) S8000715 SP Collie WWTP Bore 2a/00 S8000716 SP Collie WWTP Bore 3/00 (Bore C) S8000717 SP Collie WWTP Bore 4/00 (Bore D)

Schedule 2: Prescribed Premises Categories

The Premises prescribed categories under schedule 1 of *Environmental Protection Regulation 1987*

Prescribed Premises categories

Category number	Category Description	Category production or design capacity	Approved Premises production or design capacity
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.	100 cubic metres or more per day	2,200 cubic metres per day

Schedule 3: Premises boundary coordinates

The premises boundary is defined by the coordinates below.

Easting	Northing
418495.91	6305100.35
418903.66	6305377.14
419803.43	6305336.16
419744.70	6305300.17
419107.05	6305137.72
418640.32	6305125.02
418410.64	6305039.82

Note: GDA 2020 Zone 50