



Licence number	L7461/2000/9
Licence holder	Water Corporation
ACN	28 003 424 917
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	2012/006666-1~1
Duration	30/11/2020 to 29/11/2023
Date of issue	19/11/2020
Premises details	Leonora Wastewater Treatment Plant Crown Reserve 41956, Steel Street LEONORA WA 6537 Being Lot 1273 on Plan 190076 as depicted in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production 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.	225 cubic metres per day

This licence is granted to the licence holder, subject to the attached conditions, on 19 November 2020, by:

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

Licence history

Date	Reference number	Summary of changes
1/12/2004	L7461/2000/5	Licence reissue
7/12//2005	L7461/2000/6	Licence reissue
18/11/2010	L7461/2000/7	Licence reissue
07/03/2013	L7461/2000/7	Licence amended to include a condition for the licensee to submit an Environmental Improvement Plan (EIP) by 31 July 2014.
10/09/2015	L7461/2000/8	Licence amended to install Copper Doser and to carry out other maintenance upgrade at Leonora Wastewater Treatment Plant.
26/11/2015	L7461/2000/8	Licence reissue
24/07/2019	L7461/2000/8	Licence amendment to align Licence with recent completion of Improvement Program – installation of updated infrastructure.
19/11/2020	L7461/2000/9	Licence reissue and amalgamation.

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.

Licence conditions

The Licence Holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The Licensee Holder must ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.

Table 1: Infrastructure and equipment requirements		
Vessel or compound	Material	Requirements
Primary treatment pond (pond 1)	Wastewater	Clay lined
Maturation Pond (Pond 2)	Treated Wastewater	Clay lined
Maturation Pond (Pond 3)	Treated Wastewater	Clay lined
Storage Pond (Pond 4)	Treated Wastewater	Clay lined
Sewage sludge compound	Biosolids	Temporary or permanent infrastructure to consist of a bunded hardstand or lined area (lined to achieve a permeability of less than 10^{-9} m/s or equivalent), capable of preventing surface run-off of leachate and sludge which includes a leachate collection system.

2. The License Holder must only allow waste to be accepted on to the Premises if:
 - (a) it is of a type listed in Table 2.
 - (b) the quantity accepted is below any limit listed in Table 2; and
 - (c) it meets any specification listed in Table 2

Table 2: Waste acceptance			
Waste Type	Waste Code	Quantity Limit	Specification ¹
Sewage	N/A	225 cubic metres per day	Accepted through sewer inflow(s) only
Sewage waste from the reticulated sewerage system – domestic wastes from apparatus for the treatment of sewerage	K130	N/A	Tankered into the premises and discharged into Pond 1 or Inlet Access Chamber. Waste from Water Corporation infrastructure only

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

3. The License Holder must ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 3 and in accordance with any process requirements described in that table.

Table 3: Waste processing		
Waste type	Process	Process requirements
Sewage	Physical, biological and chemical treatment	<p>Primary, secondary aerobic treatment, copper dosing, mechanical filtration, and gaseous chlorination to reuse.</p> <p>If the copper doser is taken offline and algae levels rise above acceptable levels, it must be brought back online.</p> <p>Non-disinfected Treated Wastewater is discharged to the environmental disposal channel if it cannot be utilised by the Shire Irrigation Scheme.</p>

Emissions and discharges

4. The License Holder must record and investigate the exceedances of any descriptive or numerical limit, and/or trigger value specified in this section.
5. The License Holder must manage the wastewater treatment ponds such that:
 - (a) overtopping of the wastewater treatment ponds does not occur;
 - (b) stormwater runoff is prevented from entering the wastewater treatment ponds;
 - (c) there is no discernible seepage loss from the wastewater treatment ponds;
 - (d) vegetation and floating debris (emergent or otherwise) is prevented from growing or accumulating in the pond wastewater or on the inner pond embankments; and
 - (e) collected vegetation and floating debris from the treatment plant ponds are disposed of to a licenced or registered landfill.
6. The License Holder must maintain a device for measuring cumulative volumes of treated wastewater discharged to the infiltration channel.
7. The License Holder must ensure that where waste is emitted to land from the emission points in Table 4 (and identified on the map points in Schedule 1) it is done so in accordance with the conditions of the licence.

Table 4: Emissions to land			
Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
S6817113 (Reuse Sample Point)	SP Leonora Post Chlorination Final Effluent	Discharge of treated wastewater from wastewater treatment plant for irrigation of the local sports oval	Treated wastewater pipeline from wastewater treatment plant
S6817006 (Flow meter)	Post CI Magflow		

Table 4: Emissions to land			
Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
S6000080 (Sample Point)	SP Leonora maturation pond (Pond 3) Final Effluent	Discharge of excess treated wastewater from wastewater treatment plant to infiltration channel	Treated wastewater discharge flume.
S0015671 (Flow meter)	Outflow Measuring Unit		

Monitoring

8. The License Holder must 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 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.
9. The License Holder must ensure that quarterly monitoring is undertaken at least 45 days apart.
10. The License Holder must 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.
11. The License Holder must undertake the monitoring in Table 5 according to the specifications in that table.

Table 5: Monitoring of emissions to land

Monitoring point reference	Process description	Parameter	Units	Averaging period	Frequency	Method
S6817006 and S0015671 S6000080 and S6817113	Discharge from wastewater treatment plant	Volumetric flow rate (cumulative) ¹	m ³ /day	Continuous	Monthly	None specified
		pH ¹	-	Spot sample	Quarterly	
		Biochemical Oxygen Demand	mg/L			
		Total Dissolved Solids				
		Total Suspended Solids				
		Total Nitrogen				
		Copper				
		Total Phosphorus				
		<i>Escherichia coli</i> ²				

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

12. The License Holder must 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	Units	Averaging period	Frequency
Inflow Magflow Meter;	S6816917	Volumetric flow rate (cumulative)	m³/day	Monthly	Continuous
Post CI Magflow;	S6817006				
Treated wastewater discharged to Shire reuse					
Outflow Measuring Unit	S0015671				

Records and reporting

- 13.** 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 14(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.
- 14.** The Licence Holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO, by no later than 1 September each year, an Annual Audit Compliance Report in the approved form, for the annual period.
- 15.** The License Holder must submit to the CEO an Annual Environmental Report by 1 September after the end of each annual period. The report shall contain the information listed in Table 7.

Table 7: Annual Environmental Report	
Condition or table (if relevant)	Parameter
-	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
Condition 7, 8	The monthly and annual average loads of each contaminant in the effluent discharged from the WWTP to both the infiltration channel and that used for irrigation on the shire oval using flow weighted data, reported in kilograms per day.
Condition 11, Table 5	Monitoring of emissions to land
Condition 12, Table 6	Monitoring of inputs and outputs

- 16.** The License Holder must ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production, or operational data; and
 - (b) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.
- 17.** The License Holder must ensure that the parameters listed in Table 8 are notified to the CEO at the Contact Address and in accordance with the notification requirements of the table.

Table 8: Notification requirements		
Condition or table (if relevant)	Parameter	Notification requirement¹
-	Taking a treatment pond offline for maintenance work	No less than 72 hours to taking a pond offline
-	Removal of sewage sludge from the wastewater treatment vessel and wastewater storage pond	No less than 14 days in advance of works ²
Condition 5	Breach of any limit specified in the Licence	N1 Form is located in Schedule 2; Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable

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

Note 2: The following information shall be included: (i) when desludging is proposed to occur, (ii) the desludging method, (iii) action to mitigate potential odour impacts, and (iv) the method by which the community will be advised of the desludging activities.

- 18.** The License Holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.

Definitions

In this licence, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
ACN	Australian Company Number
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 July until 30 June of the immediately following year.
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
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.
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</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
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	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.
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.

Term	Definition
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: Figure 1 in Schedule 1 to this licence.
Prescribed premises	has the same meaning given to that term under the EP Act.
process equipment	means any wastewater or sludge containment infrastructure or wastewater treatment vessel.
quarterly	means the 4 inclusive periods from 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March and 1 April to 30 June.
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.
usual working day	means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

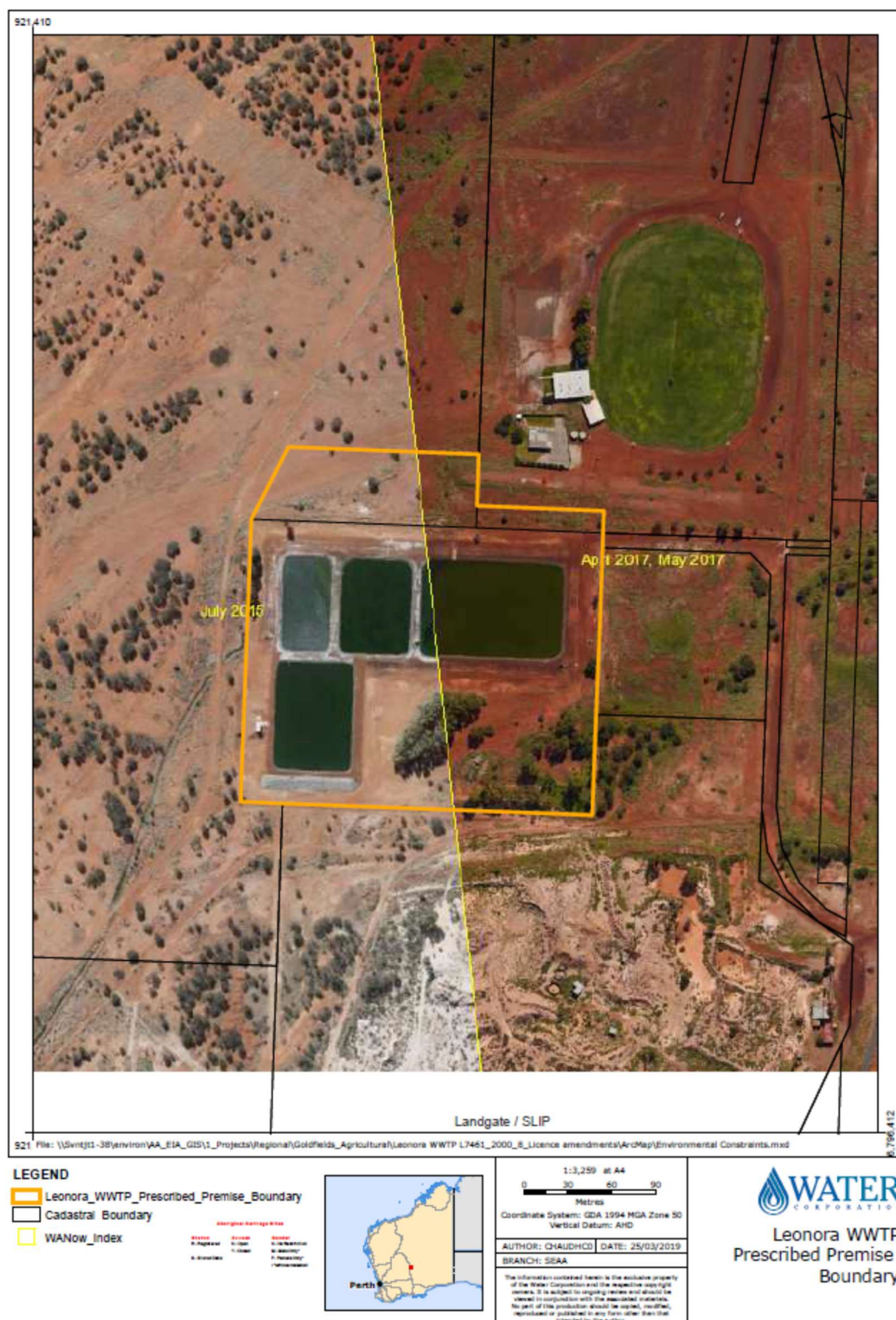


Figure 1: Map of the boundary of the prescribed premises

Leonora WWTP (S0015667)

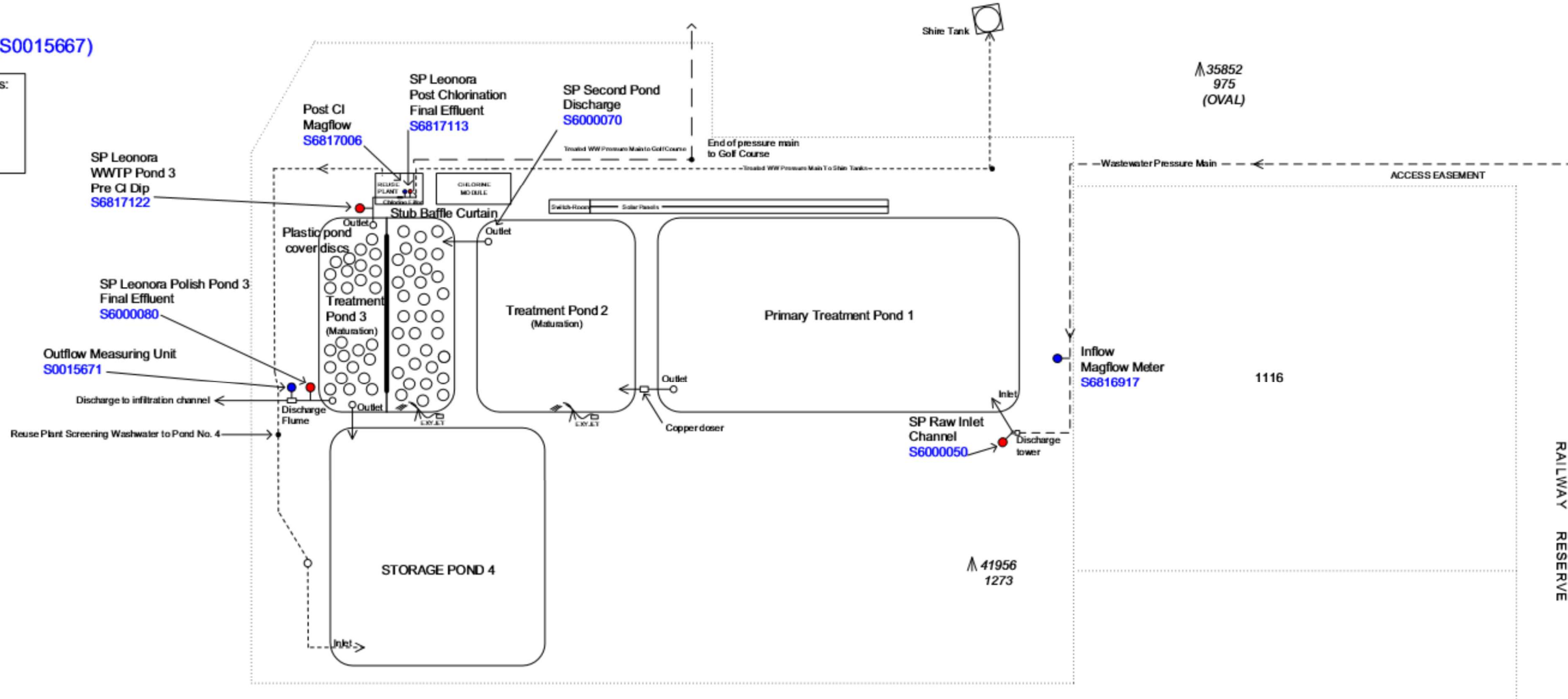


Figure 2: Premises layout showing emission and monitoring points

Schedule 2: Forms

Licence: L7461/2000/8

Licence Holder: Water Corporation

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	