Licence

Licence number	L6786/1991/11
Licence holder	Water Corporation
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	DER2016/000759
Duration	27/09/2012 to 01/10/2023
Date of amendment	29 July 2022
Premises details	Albany Water Resource Recovery Facility 100 Timewell Road, Lot 1 on Plan 44295 MCKAIL WA 6330 Albany Wastewater Treatment Plant – Tree farm 1 35790 Albany Highway, Lot 10 on Plan 84694, Lot 2 on Plan 43845, Lot 749 on Plan 100633, Lot 815 on Plan 101284, Lot 4822 on Plan 157224 and Lot 3325 on Plan 79932 DROME WA 6330

Prescribed premises category description **(Schedule 1, *Environmental Protection Regulations 1987*)**	**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.	8,500 m^3/ day
Category 61: Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	102 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 29 July 2022, by:

Jarrod Abrahams
Digitally signed by Jarrod Abrahams
Date: 2022.07.29 13:07:19 +08'00'

MANAGER WASTE INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
27/09/2012	L6786/1991/11	Licence re-issue
24/09/2015	L6786/1991/11	Licence amendment – regarding changes to soil moisture monitoring and brackish water storage
29/09/2016	L6786/1991/11	Licence amendment – regarding hydrostatic testing of brackish water storage pond
22/02/2018	L6786/1991/11	Amendment Notice 1 – regarding discharge of sewer pump station waste to existing infrastructure
23/03/2018	L6786/1991/11	Amendment Notice 2 – regarding administrative change for sewer pump station waste sources
14/06/2019	L6786/1991/11	Amendment Notice 3 – regarding the re-lining of IDEA #1 lagoon with a double layer HDPE liner
30/11/2021	L6786/1991/11	Licence amendment – regarding administrative matters, additional infrastructure works and increases to capacity of waste acceptance.
29/07/2022	L6786/1991/11	Licence amendment – extend due date for odour reporting in condition and administrative matters

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

Construction

1. The licence holder must construct and install the infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is in accordance with the corresponding requirements set out in Table 1.

Table 1: Infrastructure and equipment requirements

Infrastructure and equipment		Requirement	Infrastructure location
1)	Albany WWTP – Pond 1	The liner for Pond 1 must meet the specifications in Schedule 2, Table 19.	Albany WWTP as depicted in Schedule 1, Figure 1
2)	Albany WWTP – Emergency overflows	Overflow works must be at the inlet to Pond 1 (inlet pipe and dissipator pit) and between Pond 1 and Pond 2B (pipes), including rip rap and erosion protection to all pond embankments.	
3)	Tree farm 1 – Chlorination unit	Chlorinators must be located within the existing chlorinator building and treat wastewater within the filters for the transfer pipe from Tree farm 1 to Tree farm 2.	Tree farm 1 as depicted in Schedule 1, Figure 2

Operations

2. The licence holder must ensure that the infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment requirements

Infrastructure and equipment		Operational requirement	Infrastructure location
1)	Albany WWTP	a) All sewage must be directed through inlet screens and grit removed, then directed into IDEA lagoon 1. b) Effectively operating within IDEA lagoon 1 must be: i) a 500 kL compartmentalised bioselector; ii) a 22 kW floating mixer; iii) two 75 kW surface aerators; and iv) five 30 kW surface aerators. c) All treated wastewater from IDEA lagoon 1 must be directed to the storage ponds (1, 2A and 2B) and then transferred to the storage dams 1 and 2 at Tree farm 1. d) All sewage sludge that will be removed from the Albany WWTP must be processed to reduce the liquid component within the sludge dewatering shed and sludge hopper.	Albany WWTP and Tree farm 1 as depicted in Schedule 1, Figure 1, Figure 2 and Figure 3

Infrastructure and equipment		Operational requirement	Infrastructure location
2)	Albany WWTP – IDEA Lagoon 1	a) Vegetation must be prevented from growing in IDEA lagoon 1. b) IDEA lagoon 1 must be lined with a double layer HDPE liner comprised of: i) a 2 mm primary (internal) liner; ii) a 1.5 mm secondary (external) liner; iii) a leak detection drainage systems between the layers; and iv) return pipelines for seepage into IDEA Lagoon 1.	Albany WWTP and Tree farm 1 as depicted in Schedule 1, Figure 1
3)	Albany WWTP – odour management system	a) The odour management system must capture air from: i) the raw sewage inlet chamber; ii) inlet screens, grit removal and wastewater distribution chamber iii) conveyors to the sludge cake hopper and the knifegate valve to the sludge disposal truck. b) The odour management system must direct captured air through the mixed media biofilter tanks.	
4)	All storage and treatment ponds (includes: IDEA Lagoon 1; ponds 1, 2A and 2B; and storage dams 1 and 2)	a) Storm water runoff must be directed away from ponds and not cause erosion of outer embankments. b) Overtopping must not occur except where wastewater is directed to another pond. c) Discernible seepage loss through liners must not occur.	Albany WWTP and Tree farm 1 as depicted in Schedule 1, Figure 1, Figure 2 and Figure 3
5)	Tree farm 1 and tree farm 2 irrigation equipment	Irrigation of treated wastewater must not: a) result in surface ponding; b) result in surface runoff beyond the boundary of any 'irrigated areas'; and c) occur onto saturated or flooded soils.	Tree farm 1 as depicted in Schedule 1, Figure 2, Figure 3, Figure 4 and Figure 5
6)	Tree farm 1 sludge and pump station waste storage	a) Sludge must be stored on low permeability infrastructure. b) All leachate and sludge must be contained within the low permeability infrastructure or directed to storage dam 1.	
7)	Fences	A fence must be maintained around the boundaries of the Albany WWTP and Tree farm 1.	Albany WWTP and Tree farm 1 as depicted in Schedule 1, Figure 1 and Figure 2

3. The licence holder must only accept onto the premises waste of a waste type that:

(a) does not exceed the corresponding rate at which waste is received; and

(b) meets the relevant acceptance specifications

as set out in Table 3.

Table 3: Types of waste authorised to be accepted onto the premises

Waste type	Rate at which waste is received	Acceptance specification
Sewage	8,500 m^3/ day (annual average)	Must be received to the Albany WWTP
Sewage pump station waste	102 tonnes per annual period (combined total)	Must be delivered by a carrier to Tree farm 1
Sewage sludge		

Emissions and discharges

General

4. The licence holder must comply with relevant assigned levels in Table 1 of Regulation 8 in the *Environmental Protection (Noise) Regulations 2004*.

Emission to air

5. The licence holder must ensure that the emissions specified in Table 4, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 4: Authorised discharge points

Emission	Discharge point	Discharge point location
Treated odour from the odour management system	Odour management system discharge stack	As shown in Schedule 1, Figure 1, labelled 'odour treatment sample point', at Albany WWTP

6. The licence holder must undertake the monitoring specified in condition 11 within 30 days of a trigger value specified in Table 5 identified as being exceeded when monitored in accordance with condition 11.

Table 5: Emission trigger values

Discharge point	Parameter	Trigger value
Odour management system discharge stack	H_2S	>1.0 ppm
	Odour level	>2,000 OU

Discharges to land

7. The licence holder must not discharge sewage sludge to the environment within Tree farm 1. The licence holder must ensure that the discharges specified in Table 6, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 6: Authorised discharge points

Discharge	Discharge point	Discharge point location
Treated sewage from the Tree farm 1 storage dams 1 and 2	Tree farm 1 irrigation network (275 hectares of Australian blue gums)	As shown in Schedule 1, Figure 2 'Irrigation Areas' at Tree farm 1
	Tree farm 2 irrigation network (130.3 hectares of Australian blue gums)	As shown in Schedule 1, Figure 4 'Irrigation Areas' at Tree farm 2

8. The licence holder must holder must ensure that emissions from the discharge point listed in Table 7 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 12.

Table 7: Discharge limits

Discharge point	Parameter	Limit
As shown in Schedule 1, Figure 2 'Irrigation Areas' at Tree farm 1; and	Total nitrogen loading rate	< 150 kg/ha/year
As shown in Schedule 1, Figure 4 'Irrigation Areas' at Tree farm 2	Total phosphorus loading rate	< 78 kg/ha/year

Monitoring

General

9. The licence holder must ensure that:

(a) monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months; and

(b) monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.

10. The licence holder must ensure that all monitoring equipment used to comply with conditions 11, 12, 14 and 15 is operated and calibrated in accordance with the manufacturer's specifications.

Monitoring emissions to air

11. The licence holder must monitor air emissions according to the specifications set out in Table 8.

Table 8: Emissions to air

Discharge point	Parameter	Frequency	Averaging period	Unit	Method
Odour management system discharge stack sampling point	H_2S (concentration)	Annually and as per condition 6	Spot sample	mg/m^3	Manual calculation
	H_2S (rate)			g/s	N/A
	Volumetric flow rate			m^3/s	USEPA Method 2
	Stack exit temperature			°C	N/A
	Odour level			OU	AS 4323.1; AS 4323.3

Monitoring discharges to land

12. The licence holder must monitor discharges to land according to the specifications set out in Table 9.

Table 9: Discharges to land

Discharge point	Parameter	Frequency	Averaging period	Unit	Method	
					Sampling	Analysis
As shown in Schedule 1, Figure 2 'Irrigation Areas' at Tree farm 1 and Figure 4 'Irrigation Areas' at Tree farm 2 as labelled 'S1'	Volume (hydraulic load)	Continuous	Monthly	kL	Flow meters	
As shown in Schedule 1, Figure 3 'Dam 1 sample point' and 'Dam 2 sample point' as labeled 'S2' and 'S3'	Total Suspended Solids	Monthly	Spot sample	mg/L	AS/NZS 2031 AS/NZS 5667.1 AS/NZS 5667.10	NATA accredited
	Total Dissolved Solids					
	Biochemical Oxygen Demand					
	Total Nitrogen					
	Ammonium-Nitrogen					
	Nitrate + Nitrite-Nitrogen					
	Total Phosphorus					
	E. coli			orgs/ 100 mL		
	pH					In field and NATA accredited

Process monitoring

13. The licence holder must monitor the total amount of waste accepted onto and removed from the premises, for each waste type listed in Table 10, in the corresponding unit, and for each corresponding time period, as set out in Table 10.

Table 10: Waste accepted and removed

Waste type	Unit	Time period
Sewerage pump station waste	Tonnes	Each load accepted to and removed from the premises
Sewage sludge		

14. The licence holder must monitor the volumes of wastewater according to the specifications in Table 11.

Table 11: Wastewater process monitoring

Monitoring reference point	Parameter	Frequency	Averaging period	Unit	Method
As shown in Schedule 1, Figure 1 'Inflow monitoring' (Sewage accepted to the Albany WWTP to Tree farm 1)	Volume	Continuous	Monthly	kL	Flow meters (x 3)
As shown in Schedule 1, Figure 1 'Outflow monitoring' (Treated wastewater transferred from the Albany WWTP to Tree farm 1)	Volume	Continuous	Monthly	kL	Flow meters
Wastewater transferred from the Tree farm 1 sludge drying beds to the storage dam [not labelled]	Volume	Continuous	Monthly	kL	Flow meter
Wastewater from the IDEA Lagoon 1 liner drainage sump return points [not labelled]	Volume	Continuous	Monthly	kL	Flow meter (x2 manual)

Monitoring ambient environmental quality

15. The licence holder must monitor the environmental parameters according to the specifications set out in Table 12, Table 13 and Table 14.

Table 12: Surface water monitoring

Monitoring reference point	Parameter	Frequency	Averaging period	Unit	Method	
					Sampling	Analysis
As shown in Schedule 1, Figure 3 'Gunn Road gauging station' at Tree farm 1 as labeled 'S4'	Volume (hydraulic load)	Continuous	Monthly	kL	Flow meter	
	Total Suspended Solids	Monthly (when flowing)	Spot sample	mg/L	AS/NZS 5667.1 AS/NZS 5667.4 AS/NZS 5667.6 AS/NZS 5667.9 AS/NZS 2031	NATA accredited
	Total Dissolved Solids					
	Biochemical Oxygen Demand					
	Total Nitrogen					
	Ammonium-Nitrogen					
	Nitrate + Nitrite-Nitrogen					
	Total Phosphorus					
	E. coli			orgs/ 100 mL		
	Enterococci					
	pH					In field and NATA accredited

Table 13: Soil monitoring

Monitoring reference point	Parameter	Frequency	Averaging period	Unit	Method
As shown in Schedule 1, Figure 3, soil moisture probe monitoring locations at Tree farm 1 labelled: (i) RTU1, RTU2, RTU3, RTU4, RTU5, RTU6, RTU7, RTU9 and RTU13	Moisture	Continuous (Except when probes are removed for tree harvest works)	Spot sample	mm	Soil moisture probes

Table 14: Ground water monitoring

Monitoring reference point	Parameter	Frequency	Averaging period	Unit	Method	
					Sampling	Analysis
As shown in Schedule 1, Figure 1 and Figure 3 groundwater monitoring bore locations: At Albany WWTP: (i) MB1, MB2, MB3, MB4, MB5 At Tree farm 1: (ii) A2; (iii) DB1, DB4, DB9, DB11, DB16, DB18 (iv) 1-11, 2-11, 3-11, 4-11, (v) FM20, FM23 (vi) CN3 (*not labelled, located west of premises boundary*)	Total Dissolved Solids	Quarterly	Spot sample	mg/L	AS/NZS 5667.1 AS/NZS 5667.11	NATA accredited
	Total Nitrogen					
	Ammonium-Nitrogen					
	Nitrate + Nitrite-Nitrogen					
	Total Phosphorus					
	pH			orgs/ 100mL		In field and NATA accredited
	Standing water levels			mAHD		In field

Records and reporting

General

16. The licence 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 or environmental harm 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.

17. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

(a) the calculation of fees payable in respect of this licence;

(b) the works conducted in accordance with condition 1 of this licence;

(c) any maintenance of infrastructure that is performed in the course of complying with conditions 1 and 2 of this licence;

(d) monitoring programmes undertaken in accordance with conditions 9 through 15 of this licence; and

(e) complaints received under condition 16 of this licence.

18. The books specified under condition 17 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the licence holder for the duration of the licence; and

(d) be available to be produced to an inspector or the CEO as required.

Compliance – construction

19. The licence holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

20. The Environmental Compliance Report required by condition 19, must include as a minimum the following:

(a) certification by a suitably qualified engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, Table 1, item 1, have been constructed in accordance with the relevant requirements specified in condition 1 and Schedule 2, Table 19;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Compliance – operations

21. The licence holder must record discharges to land according to the specifications set out in Table 15 when monitored in accordance with condition 12.

Table 15: Records for authorised discharges to land

Discharge point	Parameter	Averaging period	Unit
As shown in Schedule 1, Figure 2 'Irrigation Areas' at Tree farm 1	Volume (hydraulic load)	Monthly and annual loads	kL
	Total Dissolved Solids	Monthly and annual loads	kg/ day
	Biochemical Oxygen Demand		
	Total Nitrogen		
	Total Phosphorus		
	Total Nitrogen	Annual load	kg/ ha
	Total Phosphorus		
As shown in Schedule 1, Figure 4 'Irrigation Areas' at Tree farm 2	Volume (hydraulic load)	Monthly and annual loads	kL

22. The licence holder must submit to the CEO by no later than 63 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 16, and which provides information in accordance with the corresponding requirement set out in Table 16.

Table 16: Annual Environmental Report

Condition	Requirement
8, 9, 10 and 22	Monitoring of emissions to land for the annual period must include: • Condition 8 and 9: irrigation areas and loading limits • Condition 10: discharge monitoring • Condition 22: discharge loading rates
14	Monitoring of sludge and pump station waste for the annual period
15	Sewage acceptance and wastewater process monitoring for the annual period
16	Monitoring of ambient surface water quality (table 13) for the annual period
	Monitoring of ambient soil quality (table 14) for the annual period
	Monitoring of ambient groundwater quality (table 15) for the annual period
17	Complaints summary for the annual period
25	Annual odour management report
10, 22, 14, 15 and 16	An assessment of the data against monitoring results for previous annual periods.

23. 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 63 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

Specified actions

24. The licence holder must:

(a) undertake the action items and corresponding requirements specified in Table 17 for odour emissions and all odour complaints;

(b) Conduct an odour emission screening and detailed analysis for the Albany WWTP consistent with the requirements in the *Guideline: odour emissions*; and

(c) Submit to the CEO, no later than 31 December 2022, an odour analysis report on the findings and outcomes of condition 24(b).

Table 17: Management actions for emissions of odour

Action item		Requirements
1)	Odour inspections	a) Weekly inspections within the Albany WWTP must record observations on the levels of odour observed from the odour treatment facility, sludge dewatering shed, IDEA Lagoon 1 and any vehicles transporting sludge from the facility. b) A log of the date and time of all vehicles transporting sludge from the Albany WWTP.
2)	Odour complaint response	In addition to the requirements of condition 16, for all complaints of odour emissions from the Albany WWTP the licence holder must: a) Inspect the Albany WWTP as soon as practicable; b) Record the meteorological conditions, including prevailing wind speed and direction, at the time of the complaint for the Albany WWTP; c) Identify any performance issues with the Albany WWTP equipment not performing to design and/ or manufacturer specifications that may influence odour emissions, at the time of the complaint; d) Identify the probable source of the odour emissions causing the complaint; and e) Identify the proposed odour emission mitigation measures and expected timeframes for the measures to be implemented.
3)	Odour source mitigation	For any source of odour emissions identified through Table 17, action item 2, the licence holder must record and track the mitigation measures, including the expected timeframes and progress for the measures to be implemented.
4)	Annual odour management report	Submit to the CEO, no later than 63 days after the end of each annual period, an annual odour management report that sets out: a) Findings and data summary of Table 17, action item 1, odour inspections; b) Findings and all data of Table 17, action item 2, odour complaint response; and c) Findings and summary of Table 17, action item 3, odour source mitigation.

25. The licence holder must submit to the CEO, no later than 30 June 2022, an updated irrigation management plan for Tree farm 1 that includes:

(a) a description of the irrigation scheme, environmental siting, the irrigation source, schedules and management zones, irrigation infrastructure and monitoring equipment and methods;

(b) irrigation application rates and hydraulic and nutrient loads; and

(c) irrigation and ambient environment monitoring and maintenance actions.

26. The licence holder must complete a soil condition monitoring report every 5 years from the date 30 June 2022, for Tree farm 1 that:

(a) is submitted to the CEO no later than 90 days after the end of each 5 year period; and

(b) includes the analysis of soil samples that:

(i) have been taken during late Summer to early Autumn (February to March) of the final reporting year;

(ii) are from variable depths from at least 7 appropriate reference areas across the premises; and

(iii) must be analysed for inorganic nitrogen, soil moisture, gravel, salinity, soil reaction (pH), exchangeable cations and cation exchange capacity, soil sodicity, phosphorus, potassium, copper and zinc, in terms of calculating impact from irrigation.

Definitions

In this licence, the terms in Table 18 have the meanings defined.

Table 18: Definitions

Term	Definition
ACN	Australian Company Number
AHD	means the Australian height datum
Albany WWTP	means the Water Corporation Albany Wastewater Treatment Plant located at 100 Timewell Road, Lot 1 on Plan 44295 as depicted in the Premises Map in Schedule 1
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
AS/NZS 2031	means Australian Standard AS/NZS 2031 *Selection of containers and preservation of water samples for microbiological analysis*
AS 1289	means the Australian Standard AS 1289 *Method for testing soil for engineering purposes*
AS 3798	means the Australian Standard AS 3798 *Guidelines on earthworks for commercial and residential development*
AS 4323.1	means the Australian Standard AS 4323.1 *Stationary source emissions method 1: selection of sampling positions*
AS 4323.3	means the Australian Standard AS 4323.3 *Stationary source emissions part 3: determination of odour concentration by dynamic olfactory*
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 5667.4	means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*
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 is measured or a monitoring result is obtained

Term	Definition
books	has the same meaning given to that term under the EP Act
carrier	has the same meaning given to that term under the Controlled Waste Regulations
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Controlled Waste Regulations	*Environmental Protection (Controlled Waste) Regulations 2004*
Department	means the department established under section 35 of the *Public Sector Management Act 1994* (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	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the licence
Guideline: odour emissions	Means the Department of Water and Environmental Regulation 2019, *Guideline: odour emissions* as amended for time to time
Gunn Road Gauging Station	means the gauging station located on Gunn Rd for stream monitoring of Seven Mile Creek as depicted on the Premises Map of Tree Farm 1 in Schedule 1
IDEA	means Intermittent Decanted Extended Aeration, the wastewater treatment process in use at the Albany WWTP
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
low permeability	means a surface that achieves a permeability of $1x10^{-9}$ m/s or less

Term	Definition
monthly period	means a one-month period commencing from the first of a month until that last day of that month
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 maps (Figures 1 and 2) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
RTU	means remote terminal unit
spot sample	means a discrete sample representative at the time and place at which the sample is taken
suitably qualified engineer	means a person who: a) holds a Bachelor of Engineering recognised by the Institute of Engineers; and b) has a minimum of five years experience working in a supervisory role in civil or structural engineering; and c) has worked for a minimum of four of the last five years
Tree farm 1	means the Water Corporation irrigated tree and associated irrigation infrastructure and storage dams located at Gunn Road as depicted in Premises Map of Tree Farm 1 in Schedule 1 (Figure 2)
Tree farm 2	means the Water Corporation irrigated tree farm and associated irrigation infrastructure as depicted in the Map of emission points and monitoring locations for Tree Farm 2 in Schedule 1 (Figure 4)
USEPA	means United States (of America) Environmental Protection Agency
USEPA Method 2	means the USEPA *Method 2 – Determination of stack gas velocity and volumetric flow rate (Type S pilot tube)*
WA Biosolids Guidelines	means the Department of Environment and Conservation 2012, *Western Australian guidelines for biosolids management*, as amended from time to time
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 maps below (Figure 1 and Figure 2).

Figure 1: Map of the boundary of the Albany WWTP prescribed premises with operational overlay (source: Water Corporation).

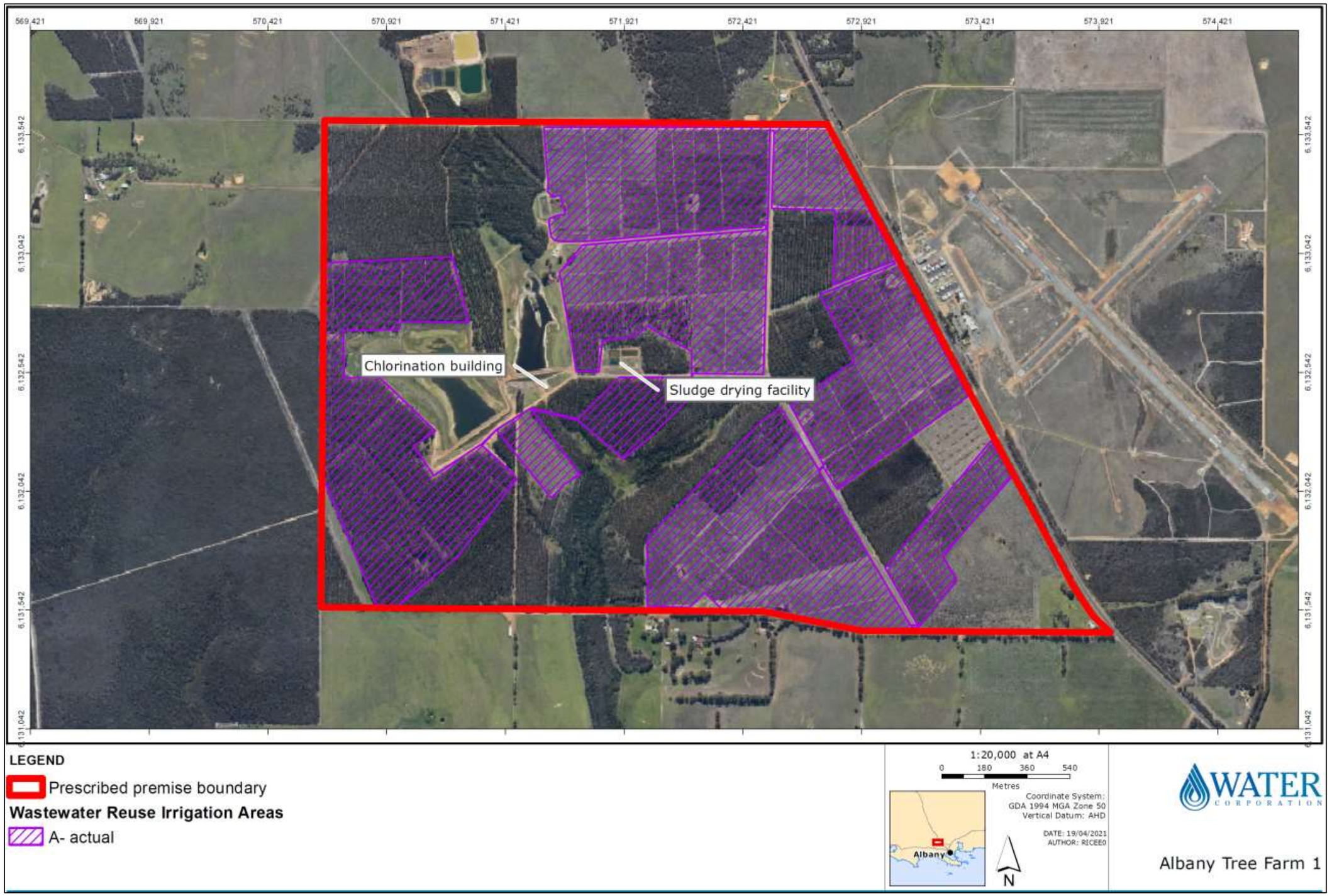

Figure 2: Map of the boundary of the Tree farm 1 prescribed premises and irrigation areas (source: Water Corporation).

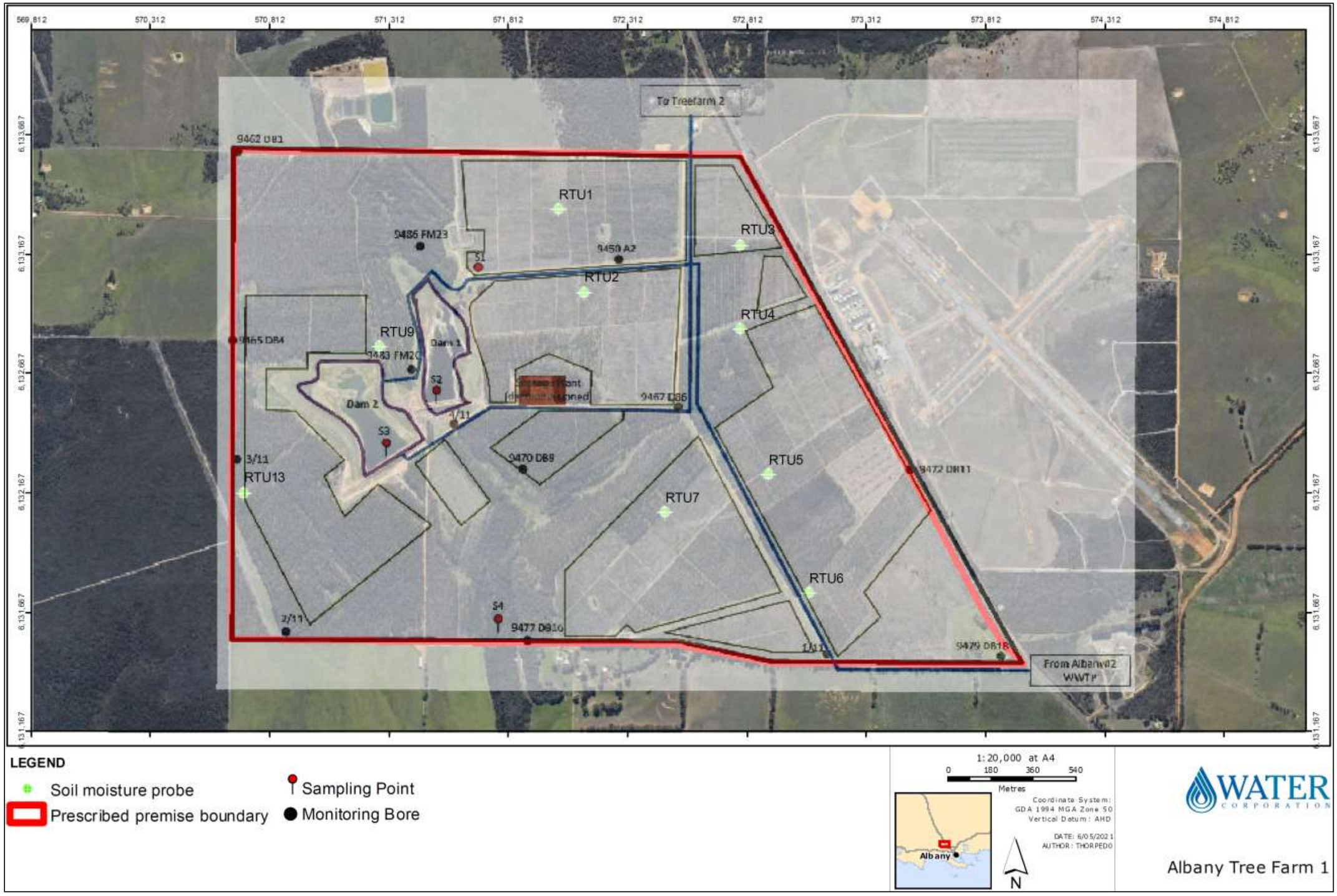

Figure 3: Map of the boundary of the Tree farm 1 monitoring locations (source: Water Corporation).

Figure 4: Map of the boundary of the Tree farm 2 (source: Water Corporation).

Figure 5: Map of the boundary of the Tree farm 1 pump station waste and sludge drying infrastructure (source: Water Corporation).

Schedule 2: Construction requirements

Albany WWTP - Pond 1 liner construction requirements

Table 19: Construction requirements for the Albany WWTP Pond 1 liner

Infrastructure and equipment)	Specifications
Albany WWTP – Pond 1 liner	Pond 1 must be lined with a clay liner that meets or exceeds the following specifications: a) 300 mm deep clay liner along the pond 1 floor; b) 500 mm deep clay liner along the pond 1 embankments; c) Clay liners are compacted in layers >100 mm and <300 mm to a minimum of 95% Standard Maximum Dry Density in accordance with AS 1289; d) Compacted clay achieves a hydraulic conductivity of less than 1 x 10^{-9} m/s; e) A minimum five (5) pond floor and six (6) pond embankment compacted clay hydraulic conductivity tests are performed in accordance with AS 1289; f) Clay liners must be inspected, approved and reported in accordance with AS 3798 level 1 geotechnical testing; and g) Rip-rap is applied to protect all compacted pond embankments.