



Licence number	L8466/2010/3
Licence holder	Water Corporation
ACN	28 033 434 917
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	2010/004862-2
Duration	17/01/2022 to 16/01/2027
Date of amendment	13/01/2022
Premises details	Southern Seawater Desalination Plant BINNINGUP WA 6233 Lot 100 on Plan 70153 as depicted in Schedule 1.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 54A: Water desalination plant	120 Gigalitres per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 13 January 2022, by:

Lesley Hart
Senior Environmental Officer
INDUSTRY REGULATION
*Officer delegated under section 20
of the Environmental Protection Act 1986*

Licence history

Date	Reference number	Summary of changes
12/06/2009	W4519/2009/1	Works Approval for construction of desalination plant.
13/01/2011	L8466/2010/1	New licence granted.
9/01/2014	L8466/2010/2	Licence renewed for five years.
29/04/2016	L8466/2010/2	Expiry date amended to 16 January 2022.
17/12/2021	L8466/2010/3	Licence renewed for five years.
13/01/2022	L8466/2010/3	Administrative amendments to renewed licence.

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

- The licence holder must ensure that the site infrastructure and equipment listed in Table 1 is maintained and operated in accordance with the corresponding operational requirements set out in Table 1.

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirements
Seawater Intake	manufacturer's specification or any relevant and effective internal management system.
Intake Pump Station	
Seawater Strainers	
Membrane Filters	
Cartridge Filters	
Reverse Osmosis Plant	
Permeate Tank	
Drinking Water Tank	
Product Pump Station	
Backwash Tank	
Outfall tank	
Sludge tank	
Centrifuge	
Lime system	
Membrane Filter CIP Sump	
Reverse Osmosis CIP Sump	
Air pollution control and monitoring equipment	
Containers	

Waste storage and minimisation

2. The licence holder shall immediately recover or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
3. The licence holder shall ensure that solid waste from the desalination process is only stored within vessels or compounds that are impervious containers (except for seawater intake screening collection basket)

Discharges to water

4. The licence holder shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of this Licence.
5. The licence holder shall ensure that where waste is emitted to surface water from the emission points in Table 2 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: Emission points to surface water

Reference and location on map of emission points	Emission point reference on Map of emission points	Description	Source including abatement
Discharge Sample Point	Discharge sample point as depicted on the map	Discharge desalination effluent through the ocean outfall diffuser within the LEPA as depicted on the map.	Process effluent

6. The licence holder shall not cause or allow point source emissions to surface water greater than the limits listed in Table 3

Table 3: Point source emission limits to surface water

Emission point reference	Parameter	Limit (including units)	Averaging period
Discharge Sample Point	Process effluent (brine)	170 Gigalitre per annual period	Annual

Monitoring

7. 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.
8. 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.

9. The licence holder shall maintain a sampling point to ensure that representative samples of desalination effluent being discharged from the premises can be collected at any time.
10. The licence holder shall undertake the monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of point source emissions to surface water

Emission point reference	Parameter	Units	Frequency
Discharge Sample Point	Volumetric flow rate of process effluent being discharged to ocean	m ³ /day	Monthly

11. The licence holder shall undertake the monitoring in Table 5 according to the specifications in that table.

Table 5: Monitoring of inputs and outputs

Input/Output	Parameter	Units	Averaging Period	Frequency
Seawater	Inflow	Kilolitre/day	Monthly	Continuous
Process effluent	Outflow to ocean via ocean outfall diffuser within the LEPA as depicted on the map.			Continuous
Process solid waste	Removed from premises	Tonnes	N/A	Monthly

Records and reporting

12. 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 12(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.

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

14. 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.

15. 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.

16. The licence holder shall submit to the CEO a copy of the reports required in each element of Condition 6 of Ministerial Statement 792, in accordance with the time frame specified in each element of Condition 6 of Ministerial Statement 792.

17. The licence holder shall record the results of any chemical analysis conducted on desalination process solid waste produced on the premises.

18. The licence holder shall submit to the CEO an Annual Environmental Report within 93 calendar days after the end of the annual period. The report shall contain the information listed in Table 6 in the format or form specified in that table.

Table 6: 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
Condition 14	Compliance	Annual Audit Compliance Report (AACR)
Condition 15	Complaints summary	None specified
Condition 7	Calibration report	None specified

19. The licence holder shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits.

20. The licence holder shall submit the information in Table 7 to the CEO according to the specifications in that table.

Table 7: Non-annual reporting requirements

Parameter	Reporting period	Reporting date	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

21. The licence holder shall ensure that the parameters listed in Table 8 are notified to the CEO in accordance with the notification requirements of the table.

Table 8: Notification requirements

Condition or table	Parameter	Notification requirement1	Format or form
Condition 6 and Table 3	Breach of any limit specified in the Licence	As soon as practicable	Forms found at www.dwer.wa.gov.au

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 17 January until 16 January of the immediately following year.
Australian Standard	means the relevant parts of the standard in force from time to time during the term of this Licence.
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
Code of practice	means the version of that code of practice in force from time to time, and shall include any amendments or replacements to that code of practice made during the term of this Licence.
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
Desalination process solid waste	means solid material collected on seawater intake screens, filtration devices and membranes, not including membrane backwash effluent;
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>
GL	means Gigalitres

Term	Definition
Guideline	means the version of that guideline in force from time to time and shall include any amendments or replacements to that guideline or made during the term of this Licence.
Inspector	means a person appointed to be an inspector under section 88 of the Environmental Protection Act 1986, and includes the CEO
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 ecological protection area (LEPA)	means the area 100 metres by 600 metres surrounding the brine discharge diffuser array; As depicted in Schedule 1 LEPA Map
mg/kg	means milligrams per kilogram
m/s	means metres per second
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 to this licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map including Discharge Sample Point

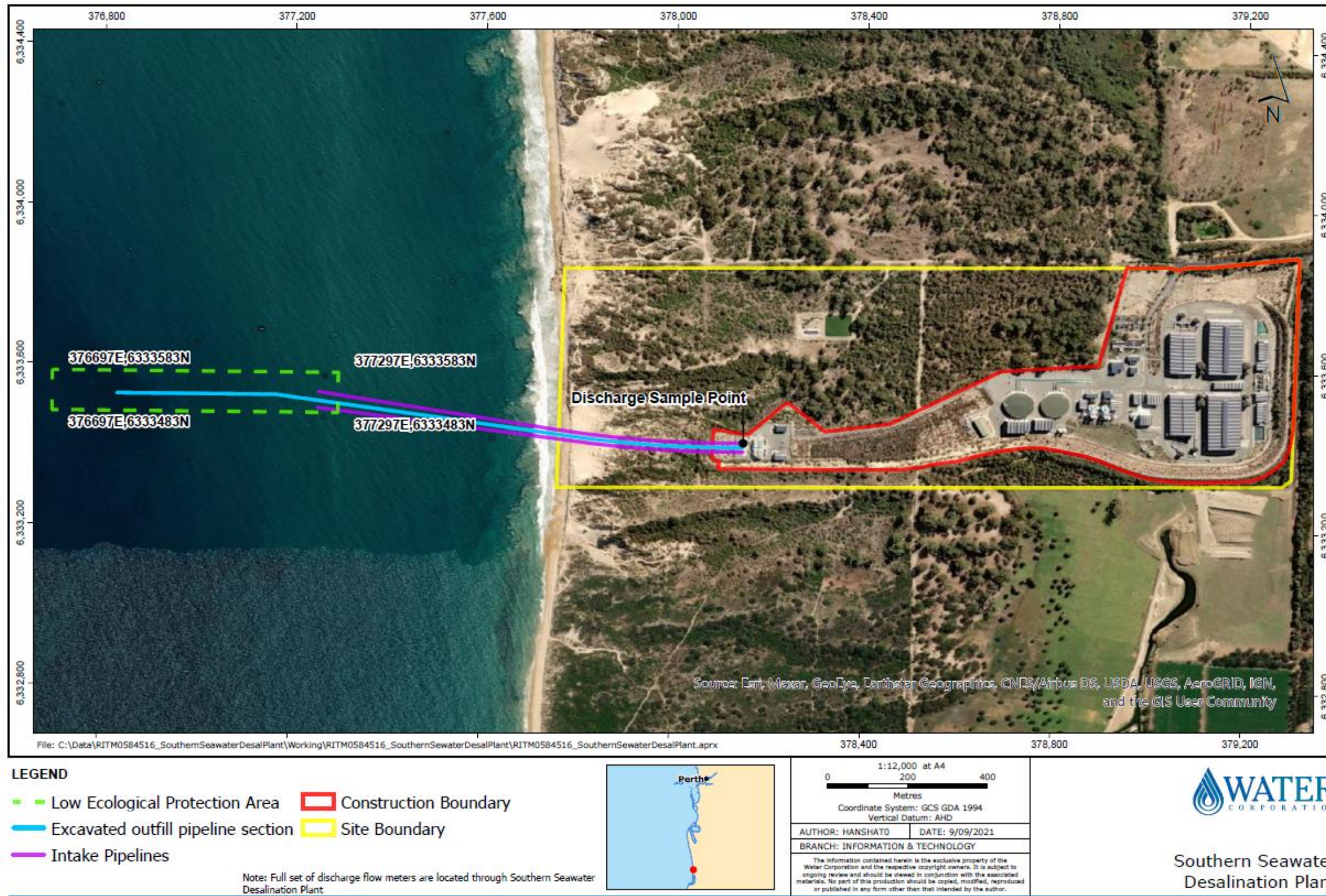
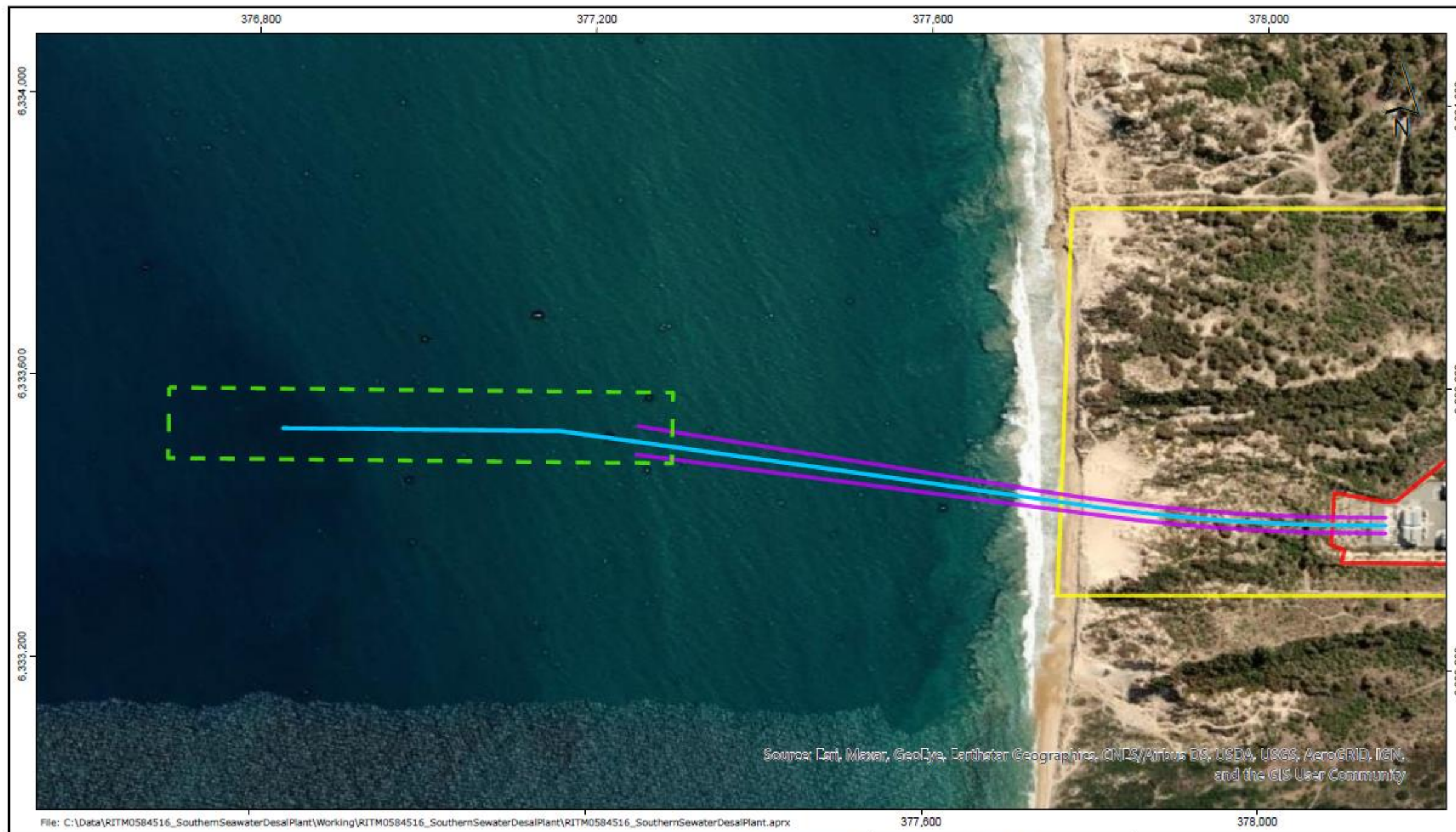


Figure No 1

Low Ecological Protection Area (LEPA) 100 metres by 600 metres surrounding the brine discharge diffuser array area (green line depicts LEPA boundary)



LEGEND

- - - Low Ecological Protection Area
- Excavated outfall pipeline section
- Intake Pipelines
- Construction Boundary
- Site Boundary



1:7,500 at A4

0 100 200 300

Metres

Coordinate System: GCS GDA 1994
Vertical Datum: AHD

AUTHOR: HANSHATO	DATE: 9/09/2021
BRANCH: INFORMATION & TECHNOLOGY	

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WATER
CORPORATION

Southern Seawater
Desalination Plant
Low Ecological
Protection Area (LEPA)

Figure No 2

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 10.

Table 10: Premises boundary coordinates (GDA Zone 50)

Latitude	Longitude
-33.132122	115.6895142
-33.1306992	115.6895676
-33.1292381	115.689621
-33.127182	115.6896973
-33.127182	115.6896973
-33.132122	115.692482
-33.1271858	115.692627
-33.1321259	115.6954117
-33.1271858	115.695549
-33.1321259	115.6983337
-33.1271896	115.6984787
-33.1321297	115.7012634
-33.1271896	115.7014084
-33.1271896	115.7033691
-33.1272545	115.7034912
-33.1271935	115.7036743
-33.1271935	115.7041473
-33.1321297	115.7041855
-33.1321297	115.7058258
-33.1319695	115.7060318
-33.1309433	115.7060776
-33.1294823	115.706131
-33.1269951	115.7061691
-33.1280212	115.706192
-33.1270447	115.7062302