Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6485/2020/1
Works approval holder	Shire of Exmouth
Registered business address	2 Truscott Crescent EXMOUTH WA 6707
DWER file number	DER2020/000561
Duration	3/06/2021 to 2/06/2024
Date of issue	3/06/2021
Premises details	Qualing Scarp Waste Management Site Minillya-Exmouth Road EXMOUTH WA 6707 Legal description - Lot 219 on Plan 191996

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 61: Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	579 tonnes per year

This works approval is granted to the works approval holder, subject to the attached conditions, on 3 June 2021, by:

Tracey Hassell
Digitally signed by Tracey Hassell
Date: 2021.06.03 09:39:07 +08'00'

Tracey Hassell
Manager Waste Industries

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

Works approval history

Date	Reference number	Summary of changes
3/06/2021	W6485/2020/1	New works approval granted

Interpretation

In this works approval:

(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 works approval:

  (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 works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

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

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct the critical containment infrastructure;

(b) in accordance with the design and construction requirements; and

(c) at the infrastructure location,

as set out in Table 1.

Table 1: Critical containment infrastructure design and construction requirements

Infrastructure	Design and construction requirements	Infrastructure location
Evaporation pond 2	• As specified in Schedule 1 Figure 2 and Figure 3 • As specified in Schedule 2, The works approval holder must construct the infrastructure component in accordance with the corresponding requirements set out in Table 4 and the design plans in Schedule 1 Figure 2 and Figure 3. In addition to these requirements, all materials, construction and installation must meet the requirements set out in the Talis Consultants 2020, *Technical specifications: Liquid waste facility evaporation pond – Qualing scarp waste facility*. • Table 4.	As shown in Schedule Figure 1 and Figure 2

Compliance reporting

2. The works approval holder must within 60 calendar days of the critical containment infrastructure identified by condition 1 being constructed:

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

(b) prepare and submit to the CEO a critical containment infrastructure report on that compliance.

3. The critical containment infrastructure report required by condition 2 must include as a minimum the following:

(a) certification by a suitably qualified engineer that each item of critical containment infrastructure or component thereof, as specified in condition 1, has been built and installed in accordance with the requirements specified in condition 1;

(b) as constructed plans and a detailed site plan showing the location and dimensions for each item of critical containment infrastructure or component thereof, as specified in condition 1;

(c) photographic evidence of the installation of the infrastructure;

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

(e) a quality assurance certificate from an independent third party which demonstrates that geosynthetic clay liner and high-density polyethylene geomembrane meet the specifications in condition 1.

Time limited operations phase

Commencement and duration

4. The works approval holder may only commence time limited operations for an item of critical containment infrastructure identified in condition 1:

(a) where the critical containment Infrastructure report for that item of infrastructure as required by condition 2 has been submitted to the CEO; and

(b) where at least 10 business days have passed after the critical containment infrastructure report for that item of infrastructure as required by condition 2 has been submitted to the CEO.

5. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 1:

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 4 for that item of infrastructure; or

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 5(a).

Time limited operations requirements

6. During time limited operations, the works approval holder must ensure that the premises infrastructure 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 during time limited operations

	Site infrastructure	Operational requirement	Infrastructure location
1.	Evaporation pond 2	• A freeboard of at least 0.5 m shall be maintained at all times • Maintained in an impervious condition	As shown in Schedule Figure 1 and Figure 2

Records and reporting (general)

7. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.

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

(a) the works conducted in accordance with condition 1;

(b) any maintenance of infrastructure that is performed in the course of complying with condition 6;

(c) complaints received under condition 7.

9. The books specified under condition 8 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 works approval holder for the duration of the works approval; and

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

Definitions

In this works approval, the terms in Table 3 have the meanings defined.

Table 3: Definitions

Term	Definition
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
critical containment infrastructure	means the items of infrastructure listed in condition 1.
critical containment infrastructure report	means a report to satisfy the CEO that works of critical containment infrastructure have been constructed in accordance with the works approval.
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
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).
Landfill Definitions	*Landfill Waste Classification and Waste Definitions 1996* (as amended from time to time)
Licence L9001/2016/1	refers to Licence L9001/2016/1, which evidences the grant of the licence by the CEO under section 57 of the EP Act, subject to the conditions.
premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the premises map Figure 1 in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.

Term	Definition
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 of experience working in the area of engineering; and (c) has worked for a minimum of four of the last five years.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

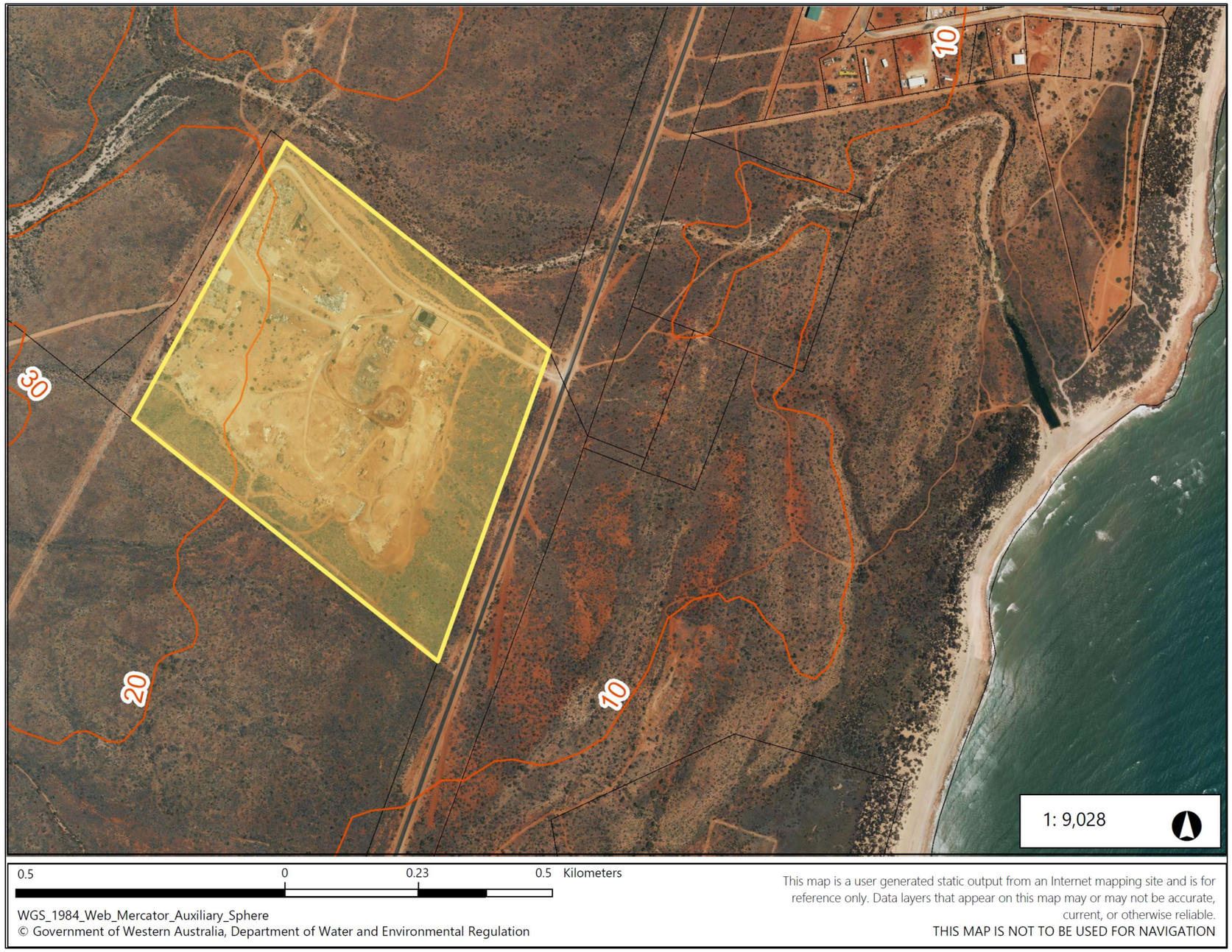

Figure 1: Map of the boundary of the prescribed premises.

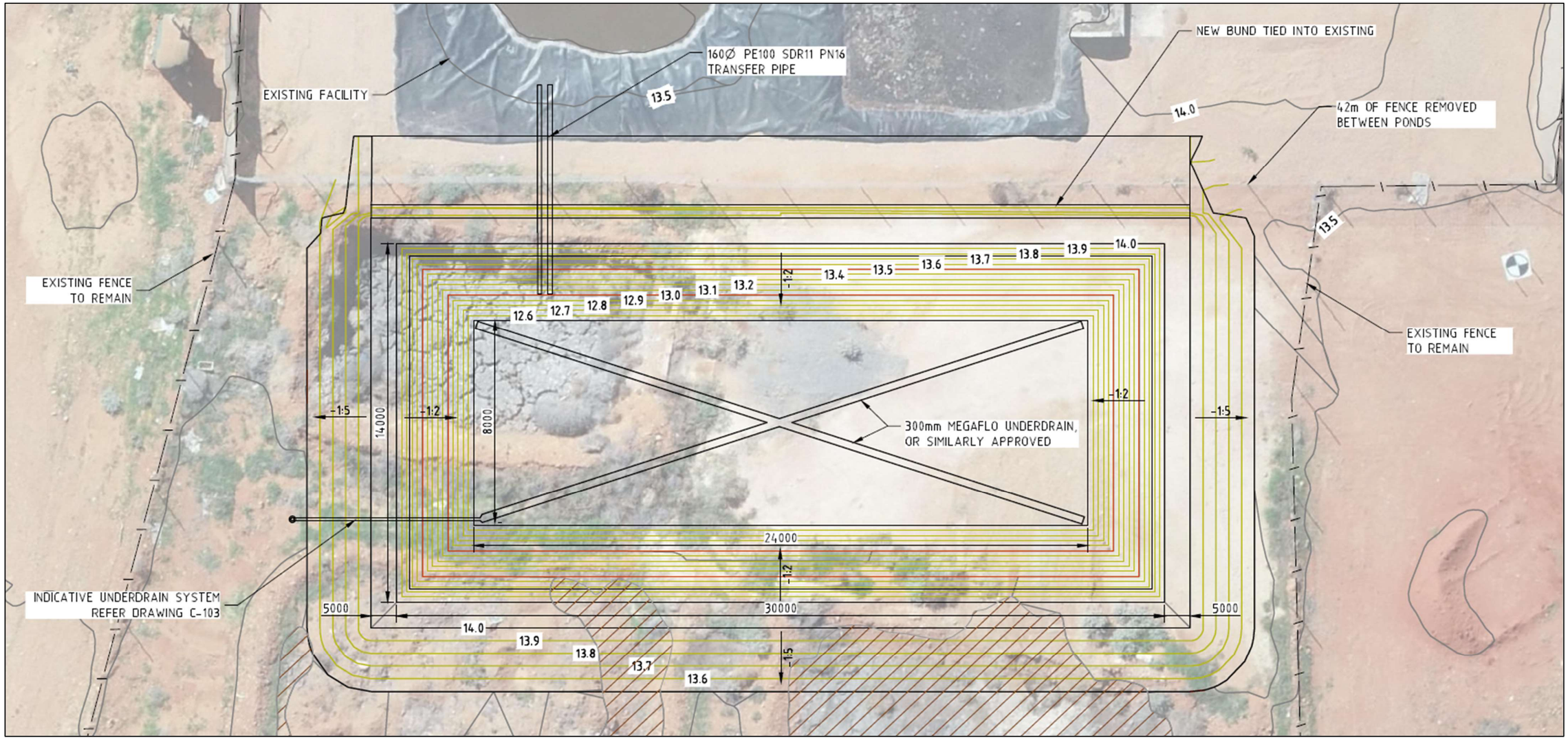

Figure 2: Plan of the new evaporation pond 2 location and elevations (source: Talis Consultants 2020, *Environmental Assessment Management Plan*).

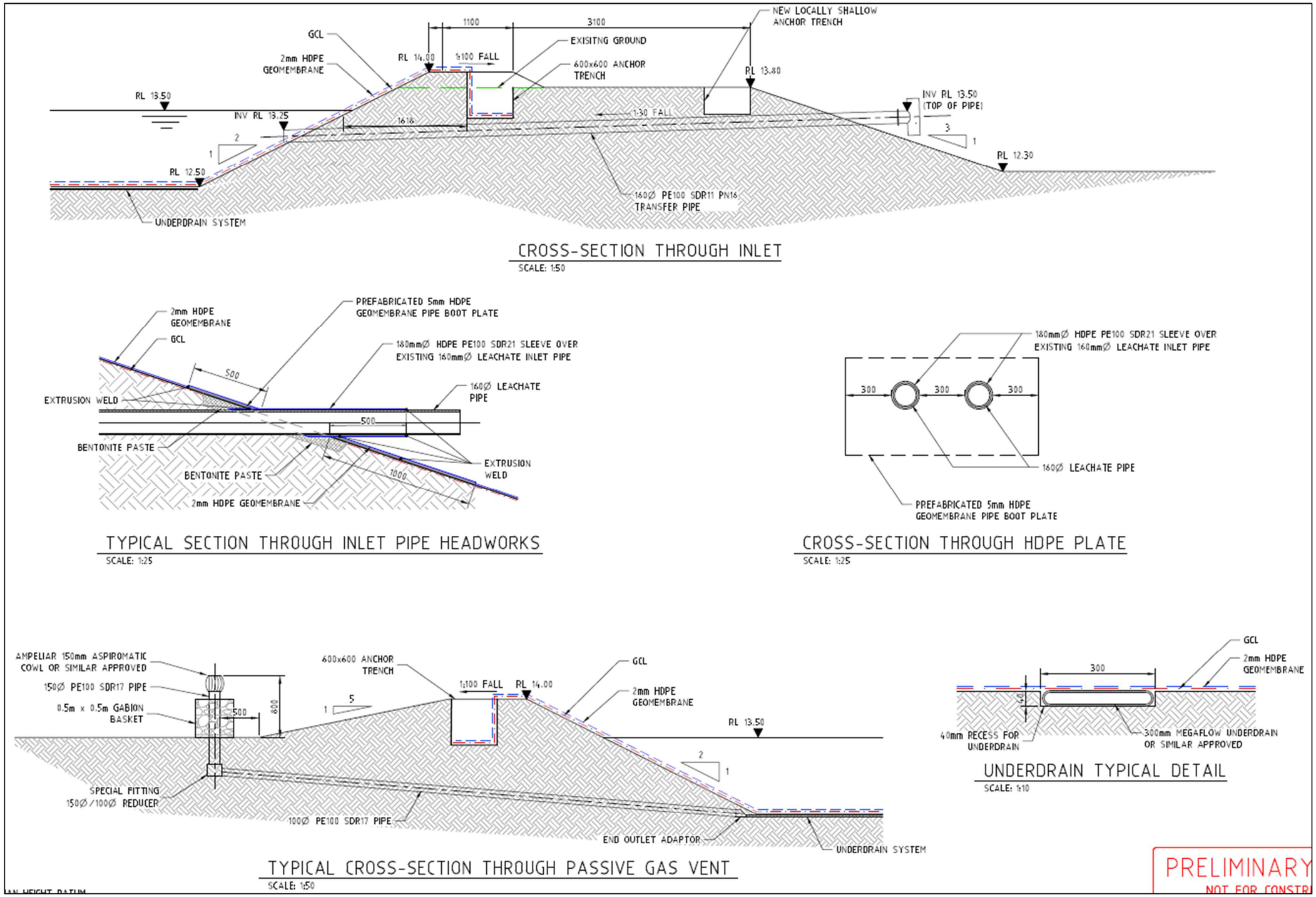

Figure 3: Preliminary construction plan for the new evaporation pond 2 liner and underdrain (source: Talis Consultants 2020, *Environmental Assessment Management Plan*).

Schedule 2: Design and construction requirements

The works approval holder must construct the infrastructure component in accordance with the corresponding requirements set out in Table 4 and the design plans in Schedule 1 Figure 2 and Figure 3.

In addition to these requirements, all materials, construction and installation must meet the requirements set out in the Talis Consultants 2020, *Technical specifications: Liquid waste facility evaporation pond – Qualing scarp waste facility*.

Table 4: Evaporation pond 2 design and construction requirements

	Infrastructure component	Requirement
1)	General	(a) 30 m x14 m x 1.5 m (length x depth x width) (b) Side slopes 1:2 (V:H)
2)	Subgrade surface	(a) must be compacted to a minimum of 95% Standard Maximum Dry Density (b) shall be smooth, free of debris, roots, sticks and sharp rocks (c) shall be watered as necessary to prevent shrinkage cracking, dusting or loosening (d) to be deemed as conforming when the maximum deviation from a 3 m straight edge placed in any position on the surface does not exceed 15 mm.
3)	Underdrain (passive gas venting)	(a) shall have a high-density polyethylene corrugated plastic core (b) shall support a nonwoven filter geotextile wrap over more than 50% of its surface area (c) must be connected to a passive gas vent, consisting of a vertical polyethylene pipe with an aspiromatic cowl. (d) gabion basket to surround the passive vent system
4)	Geosynthetic Clay Liner (GCL)	(a) to have a hydraulic conductivity/permeability of $<2.5 \times 10^{-11}$ m/s (MaxARV) (b) shall be a needle punctured multi-layered system comprising two layers of geotextiles encapsulating a layer of dry bentonite (c) no traverse joins/overlaps of geosynthetic panels are to occur on side slopes (d) to be installed within anchor trenches and extend down slopes to a minimum of 2 m onto pond base. (e) seams shall have a minimum overlap of 300mm and shall be joined by the addition of bentonite (f) paste, applied to a minimum width of 200mm and a nominal thickness of 10mm
5)	High Density Polyethylene (HDPE)	(a) shall be at least 2.0 mm thick and no less than 5 m wide (b) shall be uniform and free of pin holes, blisters, undispersed raw materials and uncontaminated by foreign matter (c) completely sealed and waterproof along all joins and seams (d) leak detection survey to be carried out following installation.
6)	Two inlet pipes (liquid waste conveyance pipes)	(a) plain solid walled HDPE pipes (b) 160 mm diameter