

Country /City UK / London
University / School University of Greenwich / School of Design
Academic year 2023 - 2024
Title of the project Bathing Status Pools
Authors Madeline Hodgeman

TECHNICAL DOSSIER

Title of the project	Bathing Status Pools
Authors	Madeline Hodgeman
Title of the course	Master of Landscape Architecture (MLA)
Academic year	2023 - 2024
Teaching Staff	Helena Rivera and Ed Wall
Department / Section / Program of belonging	Landscape Architecture and Urbanism
University / School	University of Greenwich / School of Design



Written statement, short description of the project in English, no more than 250 words

This year we have been investigating how landscapes can be redefined through collective practices, this has been framed in multiple ways. We have been engaging with human and more-than-human beings, with materials, policy and environments to speculate on how collective, situated and radical landscape practices can bring about change.

Rivers, lakes and seas should be clean enough to swim in safely, but sewage pollution and inadequate water treatment means that this is often not the case in England. Currently in the UK, 'Designated Bathing Water Status' (DBWS) is awarded to areas recognised as popular sites for outdoor swimming. Once an area achieves this status, close water monitoring is carried out and sewage released within the area must be treated to a higher standard. The awarding of DBWS is one way to force water quality improvements in an area. *Bathing Status Pools* improves the water quality by filtering water through its walls. Clean water attracts open water swimmers, whose collective presence reinforces the sites importance. The site gains DBWS and efforts are required to maintain the water quality; leaving a legacy of cleaner waters and a culture of open water swimming. This entanglement of the environmental and the social through the practice of open water swimming highlights the collective relationship between shared experiences, environmental processes, the human and the more-than-human in forming sustainable public space.

For further information

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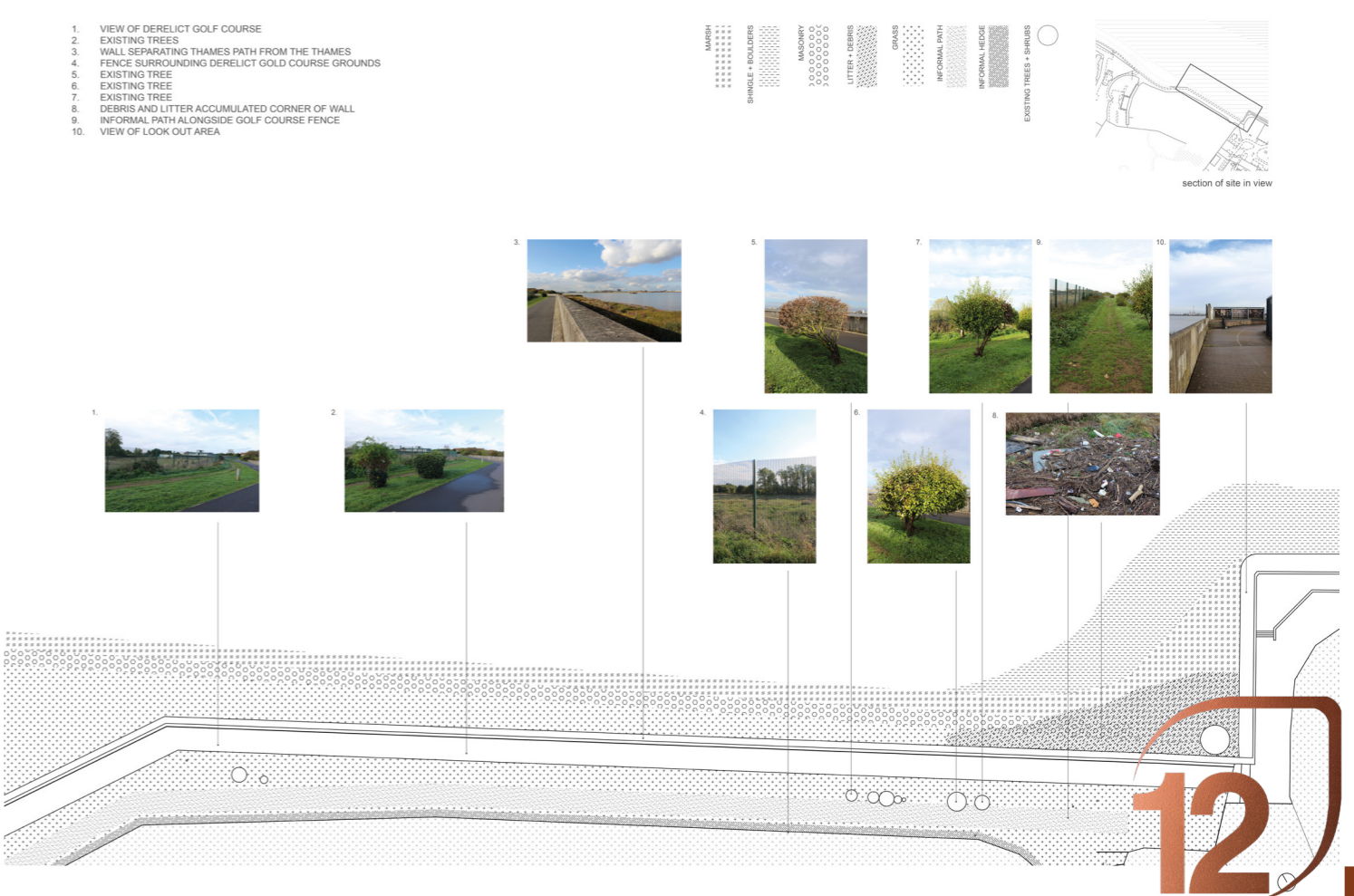
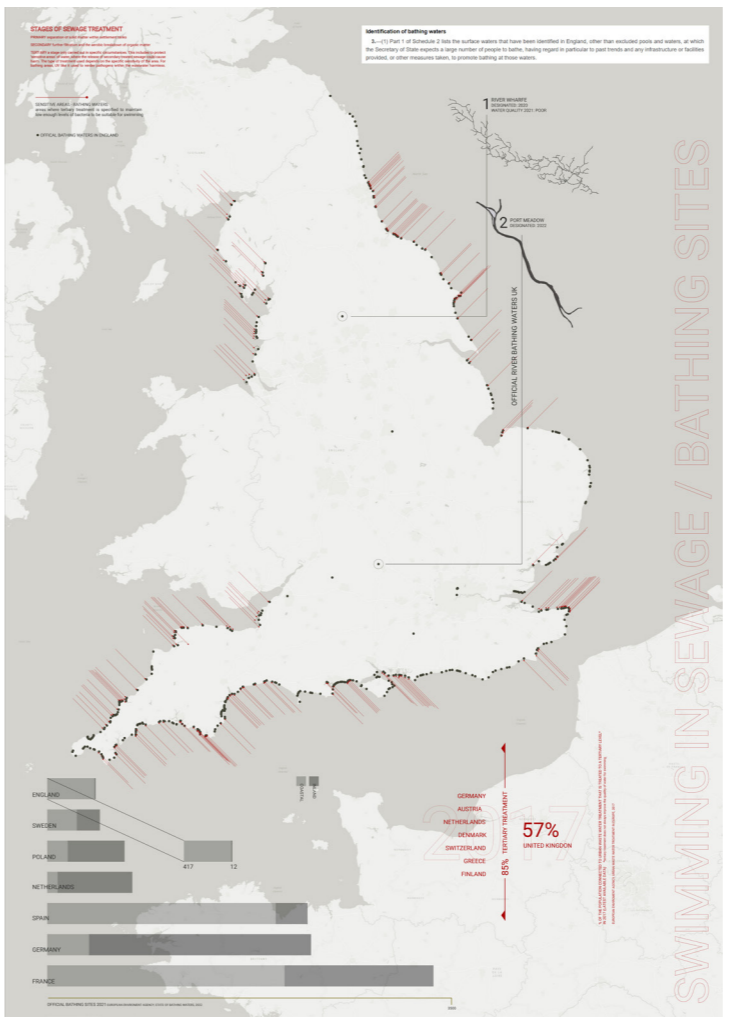
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12th International Biennial Landscape Barcelona

Barcelona November 2023

SCHOOL PRIZE

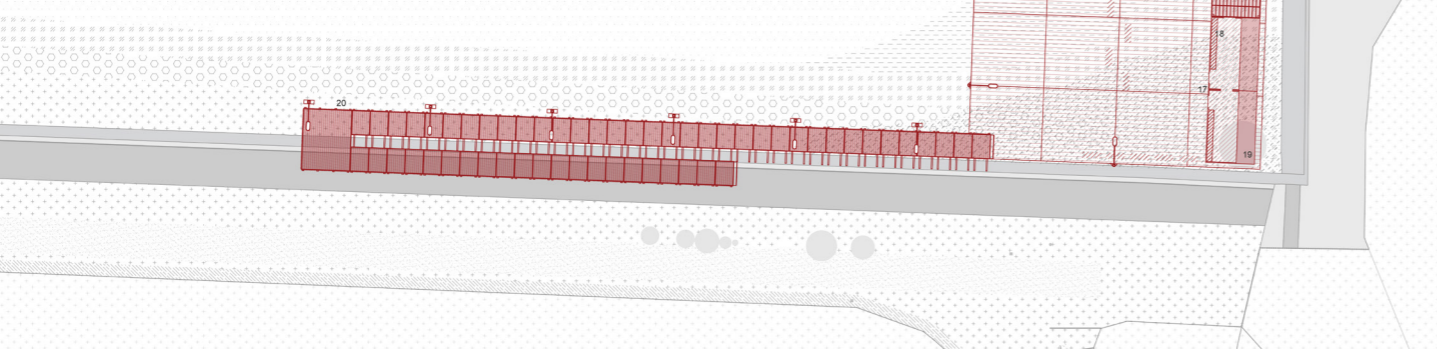
SWIMMING IN SEWAGE / STORM OVERFLOWS



- 1 ANCHOR
- 2 FILE & FILE GUIDES
- 3 LIGHT (10M) AND PILE SUPPORT
- 4 TIMBER DECKING
- 5 SEAT & DIVING PLATFORM (450MM)
- 6 SEAT & DIVING PLATFORM (900MM)
- 7 CONSTRUCTED WETLAND WATER FILTER
- 8 FLOAT
- 9 POOL LADDER
- 10 FLOAT
- 11 STEEL GRATING 'CUT OUT'
- 12 STEPPING STONES, VISIBLE AT LOW TIDE
- 13 SEAT
- 14 RAMP
- 15 SHOWERS
- 16 ROOFED CHANGING & STORAGE AREA
- 17 PARTIAL UNROOFED CHANGING AND STORAGE AREA
- 18 BENCH
- 19 INDIVIDUAL CHANGING ROOMS
- 20 RAMP OVER EXISTING WALL
- 21 FREESTANDING LIGHT (10M)

- POOL SEATING**
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- WALKWAY SEATING**
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- STEPPING STONES**
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- CHANGING HUT**
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- STAINLESS STEEL FACADE**
PARTIAL UNROOFED AREA
CHANGING BENCHES
INDIVIDUAL CHANGING ROOMS
- TRANSLUCENT POLYCARBONATE FACADE**
ROOFED AREA
BAG STORAGE
CHANGING BENCHES
TOILETS

- TIMBER DECKING/CLADDING**
- WETLAND PLANTS**
- STAINLESS STEEL**
- STAINLESS STEEL GRATING**
- TRANSLUCENT POLYCARBONATE**



OPTIMAL DESIGN OPTION

COMMON CONSTRUCTED WETLAND PLANTS

- Typha latifolia
- Phragmites australis

MODULAR DESIGN

The design would take inspiration from temporary flood barriers, being made up of a series of modular units that could be deconstructed and reconstructed in different areas.

TYPES OF WATER FILTER

- disc filter
- cartridge filter
- reverse osmo-
- advanced carbon
- sediment filter
- bag filter

EXTERNAL PURIFICATION

WATER TREATMENT - CHLORINE

- + cost effective
- + easy to use
- + effective disinfectant of water
- requires subsequent dechlorination
- some evidence chlorination can produce carcinogens

EXTERNAL WATER SOURCE

rainwater collected from rooftops, purified and used to replenish the pool

WATER TREATMENT - CHLORINE

- + highly effective
- + safer to use than chlorine
- expensive to maintain

WATER TREATMENT - UV

- highly effective +
- requires no chemicals +
- high level of maintenance of equipment -
- energy intensive -
- water requires intense filtering before treatment -

SKETCH SECTION PROPOSING HOW AN ARTIFICIAL WETLAND COULD WORK TO FILTER WATER WITHIN THE TIDAL POOL BARRIER

SKETCH SECTION PROPOSING HOW THE TIDAL POOL BARRIER COULD WORK TO FILTER WATER INTO THE TIDAL POOL

THE POOL WOULD EXIST COMPLETELY SEPARATED FROM THE THAMES WATER IT IS IN

DIRECT FILTRATION - PHYTOREMEDIATION

DIRECT FILTRATION - OTHER

GROSSENHAIN NATURAL ADVENTURE POOL

Location // Grossehain, Germany
Designers // Weidinger Landschaftsarchitekten
Design // an outdoor public pool that is kept clean without chemicals, via cycling water through layers of sediment within a regeneration pond.

KING'S CROSS POUND CLUB

Location // London, King's Cross
Designers // Ooze
Design // public swimming pool cleaned without the use of chemicals. Cleaned using plants, natural mineralisation and a set of filters to supplement natural filtration.

+POOL

Location // New York, East River
Designers // PlayLab, Inc + Family New York
Design // a floating pool which filters the waters of the East River through 'concentric layers of filtration materials that make up the walls of the pool itself'. Technical details of the filtration process have not been disclosed as the design is currently being patented.

THE FLOATING POOL LADY

Location // New York, East River
Designers // Jonathan Kirshenfeld Associates
Design // public pool within a floating pontoon containing fresh water or recycled rainwater

THAMES BATHS

Location // London, River Thames
Designers // Studio Coast
Design // public pool within a floating pontoon containing fresh water or recycled rainwater

LEAST OPTIMAL DESIGN

