

1 Site and water receptors 1:2000

Key

- Site boundary
- 40 m NRW screening distance from drainage field
- Ponds
- Planted swale
- Mown paths and tracks
- Growing beds
- Treatment beds and tanks
- Drainage field trenches
- Greywater pipe, flow direction
- Distribution pipes from DC1
- Transfer pipes to store ES1
- Root protection area
- Percolation test holes H1 and H2
- Contours, 0.5 m interval; 2 m heavier



2 Greywater system in the landscape 1:500

Separation distances from drainage field

RECEPTOR	DISTANCE	SCREENING CHECK
Western stream	**≈ 83 m**	More than 40 m
Clean-water ponds C1 / C2	**66.6 / 71.6 m**	More than 40 m; no connection
Existing pond P1 / east swale	**85.8 / 64.1 m**	More than 40 m; no connection
Willow swale, nearest (infiltration, no outfall)	**41.0 m**	More than 40 m; no connection
Dwelling	**34.9 m**	More than 15 m
North-east boundary (grazing land)	**3.41 m**	No ditch, drain or wet channel
River Dee and Bala Lake SAC	**≈ 7 km**	More than 50 m

Lower Wych One Planet Development

Land west of Lower Lanes Farm, Lower Wych

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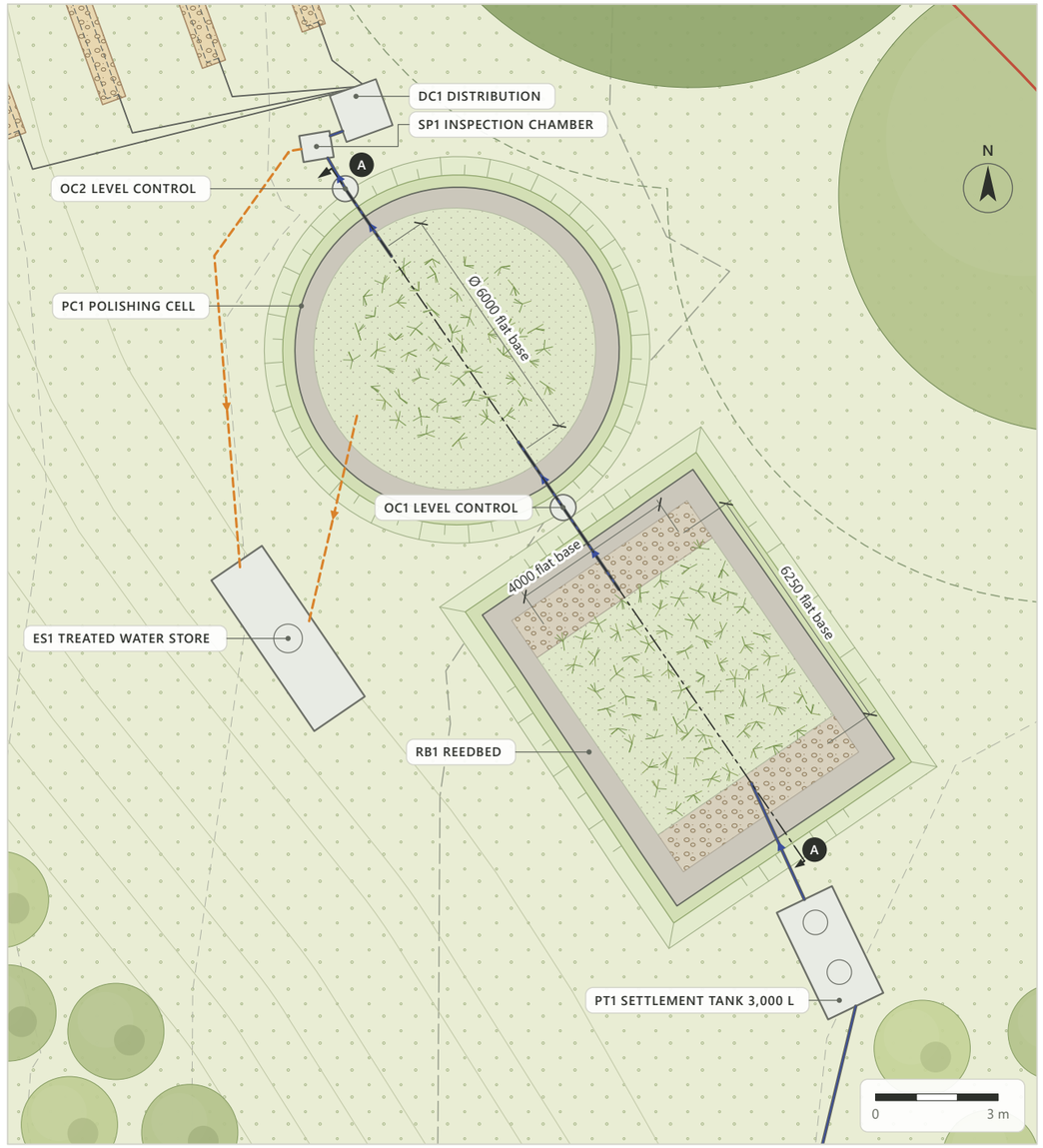
Site, water receptors and landscape

LW-GW-01

FOR PLANNING

Scale at A3 1:2000, 1:500

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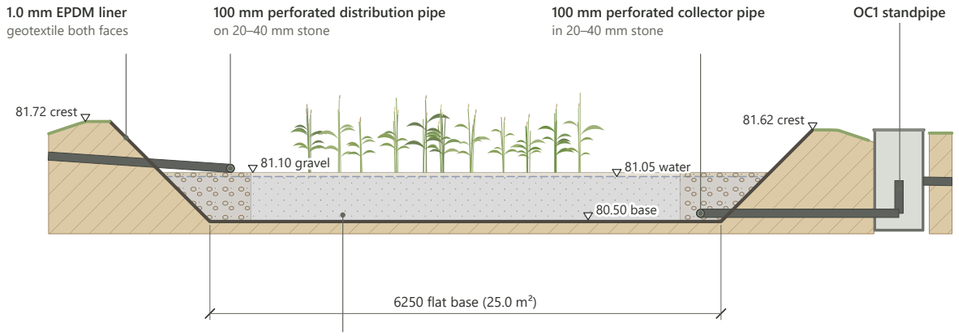


1 Treatment plan 1:150

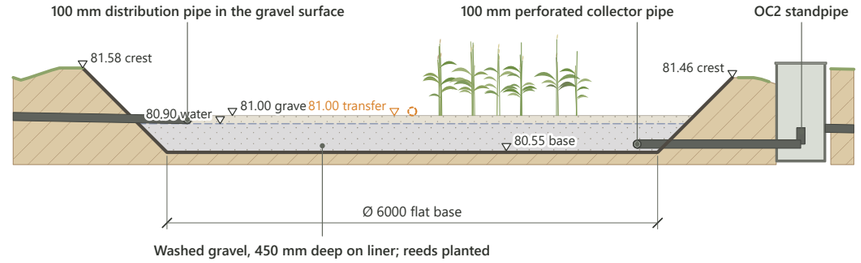
- Washed gravel (sections)
- Washed gravel, reed planted (RB1, PC1)
- 20–40 mm stone, inlet and outlet zones 500 mm
- Gravel below the water level (sections)
- Lined inner slope 1:1
- Turfed earth bank, 300 mm crest, outer slope 1:3 max.
- Buried pipe, direction of flow
- Transfer pipes to store ES1
- Root protection area

1 Solid connecting pipes 100 mm, 600 mm minimum cover; where less at chambers and banks, protect with slabs over a granular surround.
2 Bank toes and excavation outside the root protection areas; protective fencing during construction.
3 SP1: inspection and sampling chamber with manual FIELD / STORE diversion valve.
4 Tank outlines indicative, minimum capacities shown; install to the manufacturer's details.

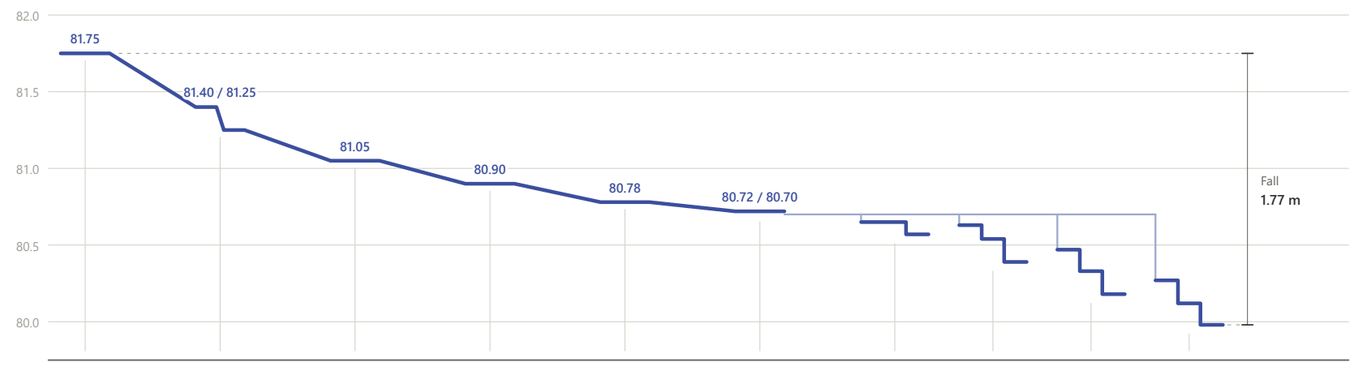
2 Section A–A Reedbed RB1 and level control OC1 1:75 · LEVELS M AOD



2 Section A–A continued Polishing cell PC1 and level control OC2 1:75 · LEVELS M AOD



3 Gravity levels from house to drainage field VERTICAL 1:40 · HORIZONTAL NOT TO SCALE · LEVELS M AOD



	R1	R2	R3	R4
Inlet	80.65	80.63	80.47	80.27
Far end	80.57	80.39	80.18	79.98

Field runs step down with the ground in level sections

Transfers to the treated water store ES1 (PC1 high level 81.00; SP1 STORE) and the pumped return are shown on GW-04.

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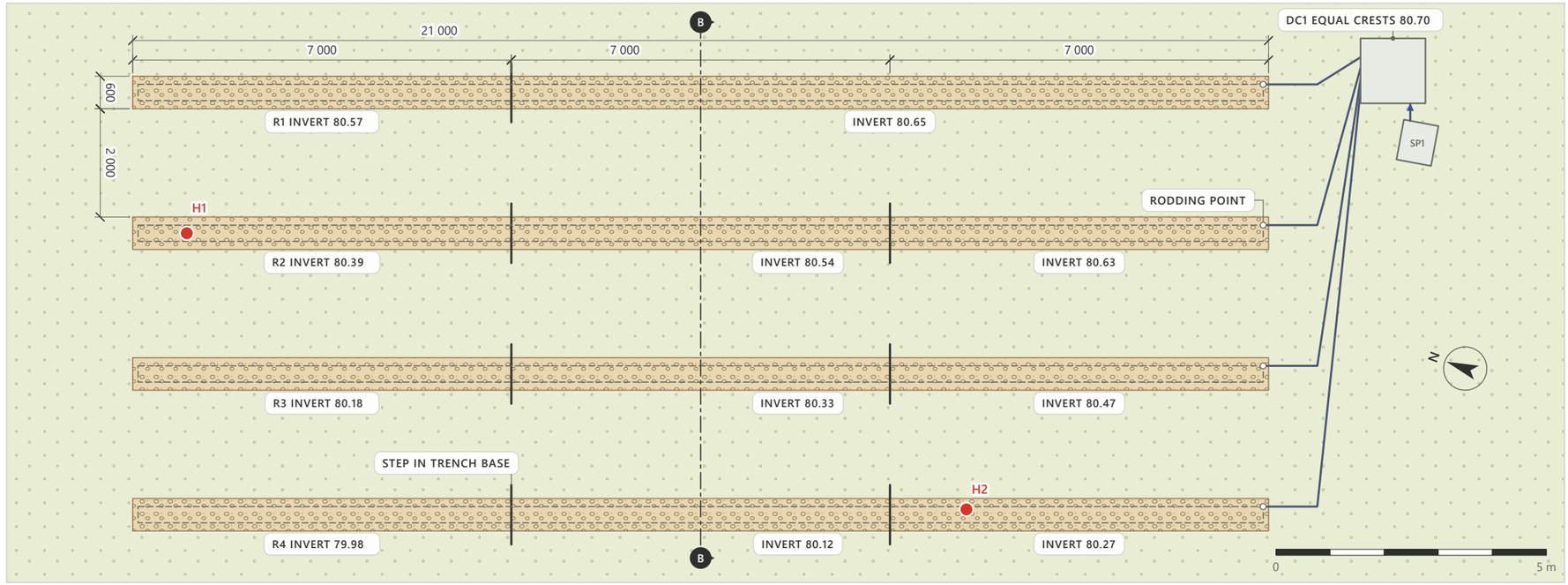
Treatment plan, sections and levels

LW-GW-02

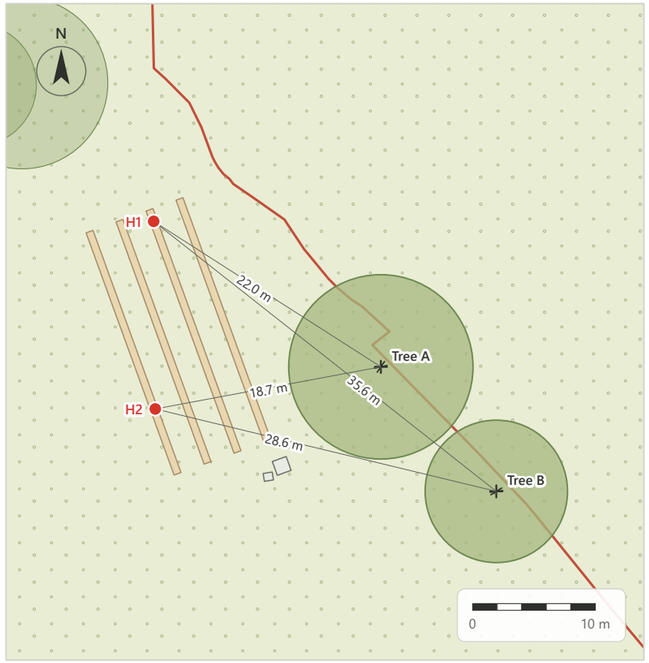
FOR PLANNING

Scale at A3 1:150, 1:75, 1:40 vertical

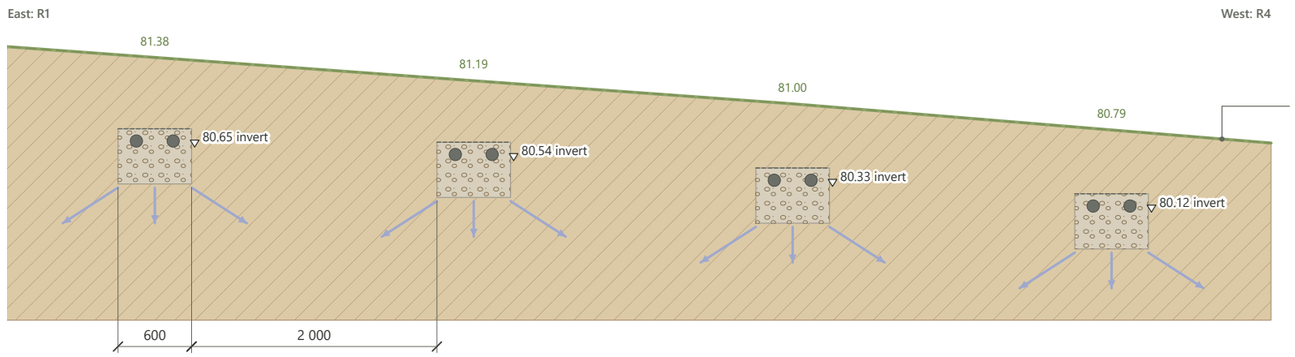
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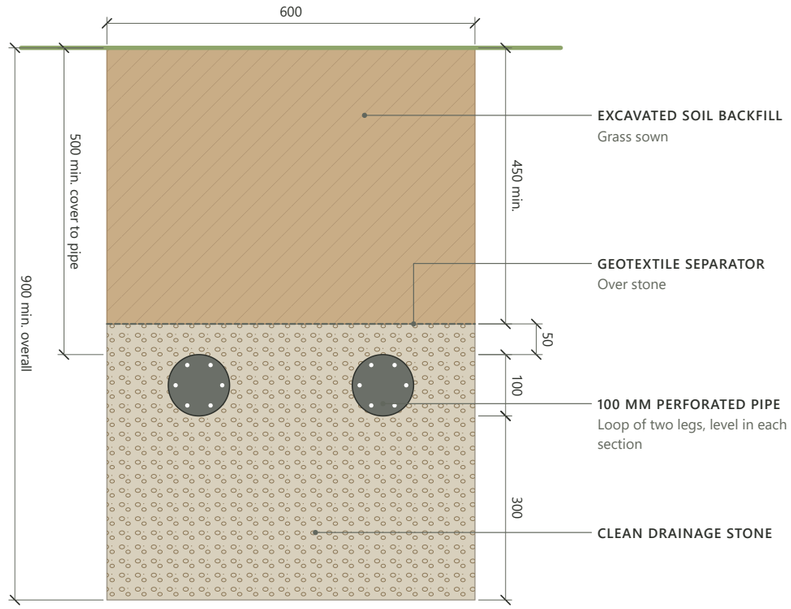
1 Drainage field DF1 1:100



4 Test hole setting out 1:500



2 Section B–B 1:50



3 Typical trench 1:10

Infiltration area

Required: persons × Vp × 0.25	5 × 39.2 × 0.25 = 49.00 m²
Provided: runs × length × width	4 × 21.0 × 0.60 = 50.40 m²

Run levels

RUN	INVERT 0–7 m	7–14 m	14–21 m	GROUND	BASE DEPTH
R1	80.57	80.65	80.65	81.17 – 81.45	0.90 – 1.10 m
R2	80.39	80.54	80.63	80.99 – 81.40	0.90 – 1.07 m
R3	80.18	80.33	80.47	80.79 – 81.24	0.90 – 1.07 m
R4	79.98	80.12	80.27	80.58 – 81.03	0.90 – 1.06 m

Inverts of the level sections, from the far end of each run; trench base 300 mm below the invert.

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Drainage field and percolation tests

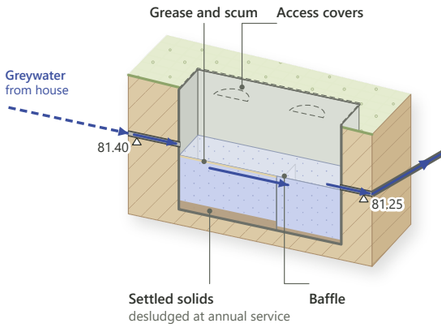
LW-GW-03

FOR PLANNING

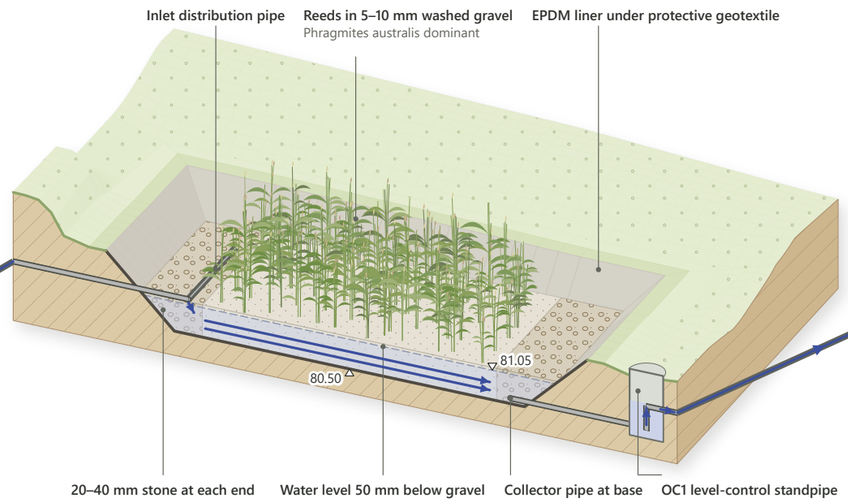
Scale at A3 1:100, 1:50, 1:10, 1:500

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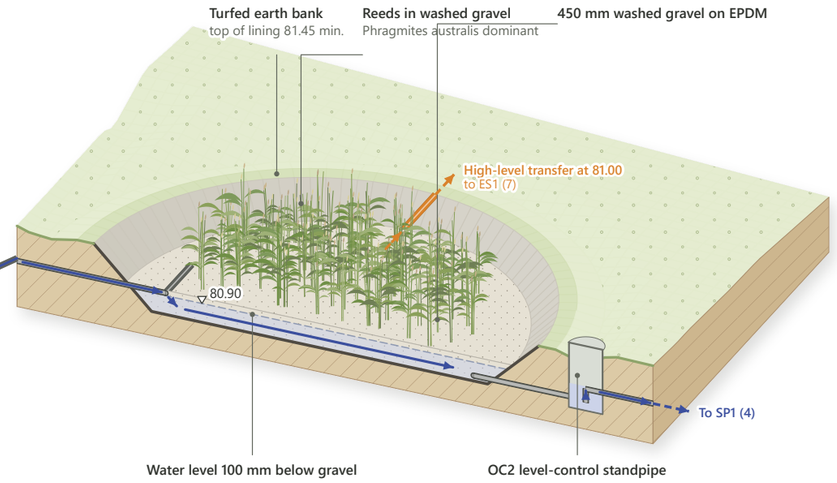
1 Settlement PT1 3,000 L



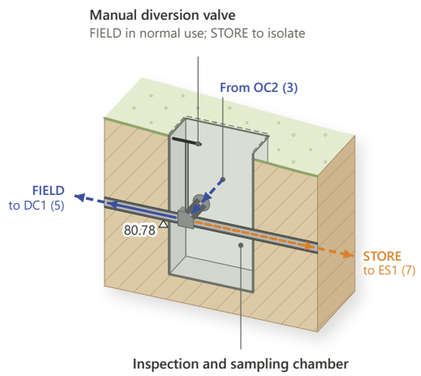
2 Reedbed RB1 25 m² base



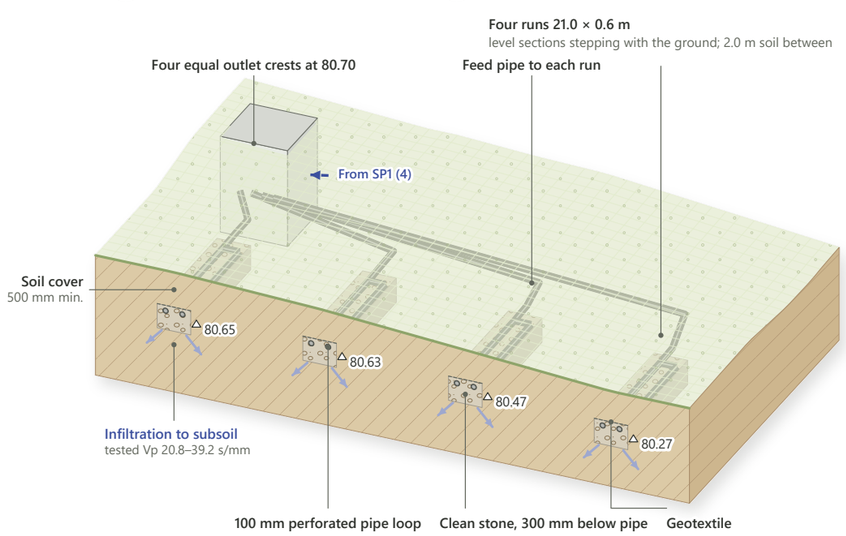
3 Polishing cell PC1 Ø6 m base



4 Inspection SP1 1:50

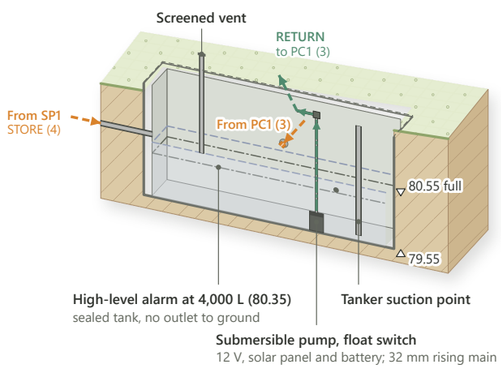


5 Distribution DC1



6 Drainage field DF1 50.4 m²

7 Treated water store ES1 5,000 L



Key

- Flow, by gravity
- Pipe continues beyond view
- Transfer pipes to store ES1
- Pumped main from ES1
- Water / saturated gravel
- 5–10 mm washed gravel
- 20–40 mm stone, drainage stone
- Soil
- 1.0 mm EPDM liner (in section)
- Polyethylene tank or chamber

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How the system works

LW-GW-04

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Scale at A3 1:100, 1:50 nominal

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