



# Meridian Solar Farm

EN010169

Volume 6

Environmental Statement

6.3 ES Appendix 11-4:  
Outline Drainage Strategy  
- Annex C

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications:  
Prescribed Forms and Procedure)  
Regulations 2009

March 2026

# Annex C - InfoDrainage Quick Storage Estimates

Name

- Dimensions
- Inlets
- Outlets
- Advanced
- Pollution

Sizing Calculator

Exceedance Level (m)

Depth (m)

Base Level (m)

Freeboard (mm)

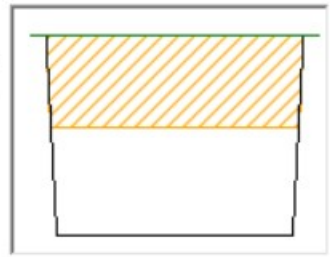
Initial Depth (m)

Porosity (%)

Average Slope (1:X)

Editable Column

Depth (m)	Area (m <sup>2</sup> )	Volume (m <sup>3</sup> )
0.000	2500.00	0.000
0.600	2900.00	1618.516



Depth incr. (m)

Click to show image(s)

**Input**

Input Type

Area (ha)

Volumetric Runoff Coefficient

Discharge Rate (L/s)

Infiltration Rate (m/hr)

Safety Factor

Create New  From Library

- All
- FEH
- FEH (1)
- FEH (2)

Method FEH

Number of Storms 48

Max. Run Time (mins) 2880

- Input
- Results
- 2D Graph

**Results**

Quick Storage Estimate variables require approximate storage of between  $3521\text{m}^3$  -  $3667\text{m}^3$ .

With Infiltration storage is reduced to between  $3467\text{m}^3$  -  $3663\text{m}^3$ .

These values are estimates only and should not be used for final design purposes.

- Input
- Results**
- 2D Graph

OK

Cancel

Name

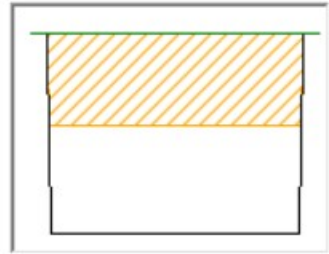
- Dimensions
- Inlets
- Outlets
- Advanced
- Pollution

Sizing Calculator

- Exceedance Level (m)
- Depth (m)
- Base Level (m)
- Freeboard (mm)
- Initial Depth (m)
- Porosity (%)
- Average Slope (1:X)

Editable Column

Depth (m)	Area (m <sup>2</sup> )	Volume (m <sup>3</sup> )
0.000	5900.00	0.000
0.600	6376.33	3681.975



Depth incr. (m)

Click to show image(s)

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- 
-

**Input**

Input Type	User Input
Area (ha)	0.96
Volumetric Runoff Coefficient	0.850
Discharge Rate (L/s)	2.0
Infiltration Rate (m/hr)	0.0001
Safety Factor	2.0

Quick Calculate

Create New  From Library

- All
- FEH
- FEH (1)
- FEH (2)

Method	FEH
Number of Storms	48
Max. Run Time (mins)	2880

- Input
- Results
- 2D Graph

OK  
Cancel



**Results**

Quick Storage Estimate variables require approximate storage of between 905m<sup>3</sup> - 1026m<sup>3</sup>.

With Infiltration storage is reduced to between 891m<sup>3</sup> - 1025m<sup>3</sup>.

These values are estimates only and should not be used for final design purposes.

Input

Results

2D Graph

OK

Cancel



**Rainfall Manager Items**

- ☐ ☁ Rainfall
- ☐ ☁ Design Storms
  - FSR
  - ☐ FEH
    - FEH
    - FEH (1)
    - FEH (2)
  - User Defined Rainfall
- ☐ Known Rainfall
- ☐ Temporal Pattern
- ☐ IDF

**FEH**

Label

Parameters	Return Periods	Storm Durations
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**Return Periods**

Use	Return Period (years)	Increase Rainfall (%)
<input checked="" type="checkbox"/>	2	0
<input type="checkbox"/>	5	0
<input type="checkbox"/>	10	0
<input type="checkbox"/>	30	35
<input type="checkbox"/>	50	0
<input checked="" type="checkbox"/>	100	40

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