Flood Risk Assessment and Drainage Strategy Addendum Report

1   Introduction

The following information is provided to supplement that already detailed in the following reports:

- Flood Risk Assessment by Ramboll, 25/04/2025, Version 4.0 (FRA); and

- Drainage Strategy by Ramboll, 25/04/2025, Version 5.0 (Drainage Strategy).

This Addendum Report is in response to additional comments from the Lead Local Flood Authority (LLFA) dated 16/06/2025 that the drainage calculations be updated to use a Cv (volumetric runoff coefficient) value of 1, and that the drainage layout be updated accordingly (if necessary).

Response

The Cv value has been checked with a worst-case scenario by using a value of 1. The storage requirement range has slightly increased as shown below. Storage provision on site remains within the estimated range as shown on the existing drainage layout plans as presented within Appendix A of the Drainage Strategy. Hence, the drainage layout plans do not require updating.

Catchment 1 (North)

Area: 3.92 ha

Flow Rate: 44.2 L/s

Cv1 Storage Required: 3,210 – 4,671 m^3

Current Storage Provision: 4,184 m^3

Quick Storage Estimate

Input

Input Type	User Input
Area (ha)	3.92
Volumetric Runoff Coefficient	1.000
Discharge Rate (L/s)	44.2
Infiltration Rate (m/hr)	0.0
Safety Factor	2.0
	Quick Calculate

○ Create New   ⦿ From Library

☑ **All**
☑ FEH

...

Method	FEH
Number of Storms	24
Max. Run Time (mins)	2880

Input
Results
2D Graph

OK
Cancel

0.0 <= Discharge Rate (L/s) <= 1000000.0   Help

Quick Storage Estimate

Results

Quick Storage Estimate variables require approximate storage of between 3210m³ - 4671m³.

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

Input
Results
2D Graph

OK
Cancel

Create New   Help

Catchment 2 (South)

Area: 4.47 ha

Flow Rate: 46.3 L/s

Cv1 Storage Required: 3,753 – 5,432 m^3

Current Storage Provision: 4,456 m^3

Quick Storage Estimate   ✕

Results

Quick Storage Estimate variables require approximate storage of between 3753m³ - 5432m³.

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

| Input |
| Results |
| 2D Graph |

OK

Cancel

Create New   🌐 Help