Telford House
Sun Valley Business Park
Winnall Close
Winchester
SO23 0LB

01962 673 330
soilslimited.co.uk

Stacey Sheldon
Chartwood Homes

3.11.2026

Via Email Only: stacey@chartwoodhomes.com

Our Ref: 22384

Re: St Crispin's Church Hall, Church Place, Pulborough, West Sussex RH20 1AF, Summary of Infiltration Investigation Findings

Dear Stacey,

Further to our previous investigations at the above site, we provide the following summary of the ground conditions, infiltration testing and groundwater observations obtained during the two phases of works undertaken in April and September 2026.

Ground Conditions

The ground investigation, undertaken in April 2026, identified variable ground conditions comprising superficial Head deposits overlying the Fittleworth Member.

The Head deposits were encountered from approximately 0.25 to 0.50m bgl, extending to depths ranging from 1.30 to 2.50m bgl. These comprised interbedded sandy and gravelly silt/clay and very clayey sand/gravel.

The underlying Fittleworth Member comprised interbedded sandy silty clay and clayey to very clayey sand.

April 2026 Infiltration Testing / Investigation

The initial investigation, undertaken on 14 and 15 April 2026, comprised three soakage trial pits (TPSK1 to TPSK3), excavated to 2.50m below ground level (bgl), together with four window sampler boreholes (WS1 to WS4) to 4.00m bgl and four dynamic probes to 6.00m bgl.

Infiltration testing within the trial pits, undertaken in soils of the Head deposits and at the interface of the underlying Fittleworth Member, recorded insufficient water level reduction to calculate infiltration rates in accordance with BRE Digest 365:2016. These results indicated that the ground tested at these locations and depths was unsuitable for the proposed infiltration drainage arrangements.

September 2026 Infiltration Testing

Further infiltration testing was undertaken between 28 and 30 September 2026 within two existing brick-built soakaway chambers.

The recorded base depths were approximately 1.50m bgl for Soakaway 1 and 1.35 to 1.46m bgl for Soakaway 2 constructed within the superficial Head deposits.

Three infiltration test cycles were completed within each chamber, with the following results:

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- Soakaway 1: 1.2×10^{-5} to 2.1×10^{-5} m/s.
- Soakaway 2: 9.4×10^{-6} to 1.6×10^{-5} m/s.

Both chambers demonstrated measurable infiltration during the repeat testing, confirming that the existing soakaways could discharge water into the surrounding ground under the test conditions.

The results provide direct evidence of infiltration capacity at the shallower soakaway locations within the superficial Head Deposits, in comparison with the insufficient infiltration recorded within the April trial pits at 2.50m bgl at greater depth at interface between the Superficial Head Deposits and underlying Fittleworth Member.

Groundwater Conditions

Groundwater was not encountered during the April 2026 investigation, including the four window sampler boreholes advanced to 4.00m bgl.

The site topographical survey indicated ground elevations ranging from approximately 17.49 to 22.16mOD.

These observations indicate that groundwater was not present at the depths investigated during the April works. The absence of groundwater during the investigation in April, when groundwater elevations would be expected to be close to their annual maximum, demonstrates that groundwater should not pose an issue for shallow soakaways on the site. Furthermore, from information provided by the client, it is understood that the existing soakaway chambers on the site are recorded to be dry, outside of rainfall events.

Summary

The two phases of investigation demonstrate that infiltration performance at the site varies by depth, with the deeper soils (c.2.50m bgl) proving unsuitable for surface water infiltration. Shallower soils of the Head deposits, however, have been found to be suitable for surface water infiltration based on the historical and tested performance of the existing soakaways. The results therefore provide evidence that surface water infiltration is achievable in shallow soakaway locations at similar depths within the Head deposits.

The ground investigation records also demonstrate consistency in the Head deposits across the area investigated. WS3 and TPSK1, located close to the existing Soakaway 2, encountered similar ground conditions to those recorded at TPSK3. The proposed cellular soakaway is located within the area investigated by WS3, TPSK1 and TPSK3, where comparable Head deposits were encountered at similar depths to those surrounding the existing Soakaway 2. This consistency in ground conditions, together with the demonstrated functionality of the existing soakaway over multiple test cycles, provides supporting evidence that the Head deposits at the proposed cellular soakaway could be considered for surface water infiltration.

This letter should be read in conjunction with our previously issued reports, 22384/MIR Rev 1.0 and 22384/IR Rev 1.0, which provide detailed investigation records and test results.

Should you have any further questions please do not hesitate to contact the undersigned.

Yours Sincerely,

Margaret Lo

Geotechnical Engineer
ml@soilslimited.co.uk
For and on behalf of Soils Limited

Figures:
Figure 1 – April 2026 Exporatory Hole Location Plan
Figure 2 – September 2026 Existing Soakaways Location Plan
Figure 3 – Proposed drainage plan

Appendix:
Appendix A – April 2026 Borehole Logs

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Figure 1 – April 2026 Exporatory Hole Location Plan



Note: WS/DP denotes the corresponding Window Sampler (WS) and Dynamic Probe (DP) undertaken in proximity.

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Figure 2 – September 2026 Existing Soakaways Location Plan

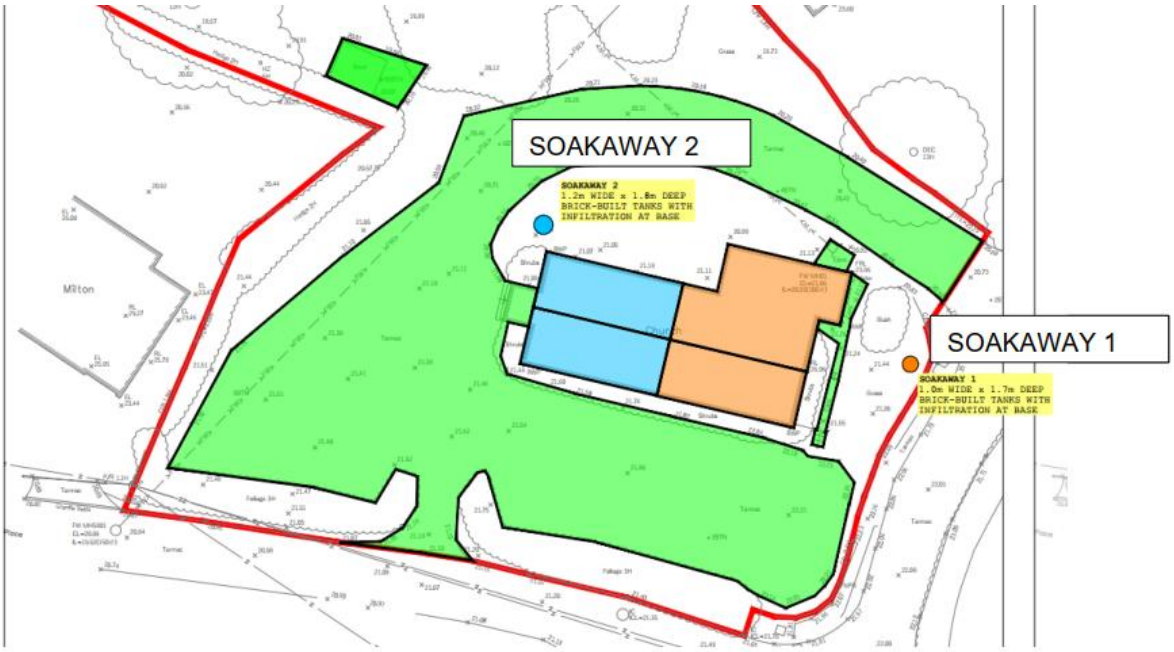

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Figure 3 - Proposed drainage plan



Site Investigation
Geotechnical Consultancy
CPTu Probing
Contaminated Land & Groundwater
Basement Impact Assessments
EMF & GPR Utility Tracing
Topographic Surveying
UAV Photography & 3D survey

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Appendix A – April 2026 Borehole Logs

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Trial Pit

TPSK1

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	504621.01	118892.43		1:25

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-14	2026-04-14

Client
Chartwood Homes

Consultant
Soils Limited

Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.45) 0.45		Brown, very slightly gravelly SILT. Gravel is angular to rounded, fine to medium flint. Roots and rootlets [TOPSOIL, TS]
						(1.05) 1.50		Orange brown clayey siltY, slightly gravelly SAND. Gravel is angular to rounded ded, fine to medium flint. Roots and rootlets. [HEAD, HEAD]
						(0.50) 2.00		Orange and brown, silty CLAY. [HEAD, HEAD]
						(0.50) 2.50		Orange and brown sandy CLAY [HEAD, HEAD]
								End of Trial Pit at 2.50m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks
Terminated as the quote to 2.50m bgl

Method, Plant, Stability, Dimensions
0.00 - 2.50m TP JCB 3CX
L = 2.00m
W = 0.50m

Logger
JC

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Created using Pebble Geo

Trial Pit

TPSK2

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	504600.46	118900.91		1:25

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-14	2026-04-14

Client
Chartwood Homes

Consultant
Soils Limited

Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.40) 0.40		Brown, very slightly gravelly SILT. Gravel is angular to rounded, fine to medium flint. Roots and rootlets [TOPSOIL, TS]
						(1.00) 1.40		Orange brown clayey siltY, slightly gravelly SAND. Gravel is angular to rounded ded, fine to medium flint. Roots and rootlets. [HEAD, HEAD]
						(0.60) 2.00		Orange and brown, silty CLAY. [HEAD, HEAD]
						(0.50) 2.50		Orange and brown sandy CLAY [HEAD, HEAD]
								End of Trial Pit at 2.50m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks
Terminated as the quote to 2.50m bgl

Method, Plant, Stability, Dimensions
0.00 - 2.50m TP JCB 3CX
L = 2.00m
W = 0.50m

Logger
JC

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Created using Pebble Geo

Trial Pit

TPSK3

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	504634.42	118889.36		1:25

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-14	2026-04-14

Client
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Consultant
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Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.40)		Brown, very slightly gravelly SILT. Gravel is angular to rounded, fine to medium flint. Roots and rootlets [TOPSOIL, TS]
						0.40		
						(1.00)		Orange brown clayey silty, slightly gravelly SAND. Gravel is angular to rounded, fine to medium flint. Roots and rootlets. [HEAD, HEAD]
						1.40		
						(1.10)		Orange and brown, silty CLAY. [HEAD, HEAD]
						2.50		*End of Trial Pit at 2.50m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks
Terminated as the quote to 2.50m bgl

Method, Plant, Stability, Dimensions
0.00 - 2.50m TP JCB 3CX
L = 2.00m
W = 0.50m

Logger
JC

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Created using Pebble Geo

Window Sampler

WS1

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WS	504607.91	118879.93		1:50

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-15	2026-04-15

Client
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Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.30	ES			(0.20) 0.20		TARMAC [MADE GROUND, MG]
		0.60	ES			(0.30) 0.50		Medium to very dense, yellowish brown mottled light brown clayey sandy GRAVEL. Gravel is angular to subrounded fine to coarse flint and tarmac. Sand is fine to coarse. [MADE GROUND, MG]
		0.80	ES					
		1.30	D			(1.60)		Very soft to stiff orangish brown sandy CLAY. Sand is fine to coarse. Occasional subangular fine flint gravel. Rare fine live root. [HEAD, HEAD]
		1.80	D					
		2.20	D			2.10		Loose to medium dense, multicoloured very clayey SAND. Sand is fine to medium. Occasional clay lenses. [WEATHERED FITTLEWORTH MEMBER, FIB]
		2.70	D					
		3.20	D			(1.90)		
		3.70	D					
						4.00		*End of Borehole at 4.00m*

Remarks
Live root encountered at 2.10m bgl.

Method, Plant, Stability, Dimensions
0.00 - 4.00m WS

Logger
MS

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Created using Pebble Geo

Window Sampler

WS2

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WS	504612.97	118907.84		1:50

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-15	2026-04-15

Client
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Soils Limited

Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.30) 0.30		Dark brown slightly clayey sandy SILT. Frequent rootlets and twigs [TOPSOIL, TS]
		0.50	ES					Very soft to soft, dark orangish brown sandy CLAY. Sand is medium. Occasional subangular fine flint gravel. Frequent rootlets. Frequent organic staining [HEAD, HEAD]
		0.70	D			(1.00)		
		0.90	ES					
		1.20	ES			1.30		
		1.50	D					Loose to medium dense, orangish brown clayey. SAND. Sand is medium [WEATHERED FITTLEWORTH MEMBER, FIB]
		1.80	D			(1.50)		
		2.20	D					
		2.80	D			2.80		Stiff to very stiff, orangish brown mottled light grey sandy CLAY. Sand is medium [WEATHERED FITTLEWORTH MEMBER, FIB]
		3.50	D			(1.20)		
						4.00		*End of Borehole at 4.00m*

Remarks
rootlets to 2.85m bgl

Method, Plant, Stability, Dimensions
0.00 - 4.00m WS

Logger
KM

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Window Sampler

WS3

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WS	504622.50	118888.01		1:50

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-15	2026-04-15

Client
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Consultant
Soils Limited

Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.10	ES			(0.25) 0.25		Dark brown slightly clayey sandy SILT. Frequent rootlets and twigs [TOPSOIL, TS]
		0.40	ES					Very soft to soft, brown gravelly silty/clayey fine to coarse SAND. Gravel is sub rounded to angular fine to medium flint. [HEAD, HEAD]
		0.60	D					
		0.80	ES					
		1.10	ES			(1.45)		
		1.50	D					
		1.80	D			1.70		Very soft to firm, dark orangish brown sandy CLAY. Sand is medium. Frequent rootlets. Frequent organic staining [HEAD, HEAD]
		2.20	D			(0.70)		
						2.40		Medium dense, orangish brown clayey. SAND. Sand is medium [WEATHERED FITTLEWORTH MEMBER, FIB]
		2.80	D			(0.70)		
						3.10		Firm to stiff, greenish grey mottled orangish brown sandy CLAY. Sand is medium [WEATHERED FITTLEWORTH MEMBER, FIB]
		3.50	D			(0.90)		
						4.00		*End of Borehole at 4.00m*

Remarks
Roots and Rootlets to 1.20m bgl

Method, Plant, Stability, Dimensions
0.00 - 4.00m WS

Logger
KM

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

Created using Pebble Geo

Window Sampler

WS4

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WS	504627.78	118870.32		1:50

Project Name	Project No.	Start Date	End Date
St Crispin's Church Hall	22384	2026-04-15	2026-04-15

Client
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Consultant
Soils Limited

Contractor
Soils Limited

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.10) 0.10		Tarmac [MADE GROUND, MG]
		0.35	WAC			(0.20) 0.30		
		0.50	ES			(0.15) 0.45		Medium dense to dense, yellowish brown mottled brown clayey sandy GRAVEL. Gravel is angular to subrounded fine to coarse flint and tarmac. Sand is fine to coarse. [MADE GROUND, MG]
		0.70	ES			(0.25) 0.70		
		0.90	D					Brick and bitominous material in sand and Gravel sized particles. [MADE GROUND, MG]
		1.40	D			(1.30)		Loose, greenish brown very clayey SAND. Sand is fine to to coarse. Rare coarse sized flint gravel. [HEAD, HEAD]
		1.90	D			2.00		Very soft to stiff orangish brown very sandy CLAY. Sand is mostly fine to medium. Occasional black staining [HEAD, HEAD]
		2.40	D					Loose to medium dense, light brown to multicoloured, silty/clayey fine to coarse SAND. Sand is fine to medium. Occasional clay lenses. Rare rootlets. [WEATHERED FITTLEWORTH MEMBER, FIB]
		2.90	D			(2.00)		
		3.30	D					
		3.80	D			4.00		*End of Borehole at 4.00m*

Remarks
Live rootlets encountered to 3.85m bgl.

Method, Plant, Stability, Dimensions
0.00 - 4.00m WS

Logger
MS

Checked By: ML **Status:** FINAL

SPT N60 = N(raw) * (Hammer Energy Ratio / 60) to nearest whole number

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