



Lidsey Drainage Impact Assessment

Yew Tree Surgery, North End Road, Yapton

Client

Avisford Medical Group

Consulting Engineers

GTA Civils & Transport Ltd
Maple House, 192-198 London Road,
Burgess Hill
West Sussex, RH15 9RD

Ref: 14010

Date: October 2025



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- A Location Plan
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- C CCTV Survey Report
- D Drainage Layout

Issue	Issue date	Compiled	Checked
First Issue	30 October 2025	FVV	MR

1 Introduction & Policy Context

- 1.1 This Lidsey Drainage Impact Assessment (LDIA) report has been prepared for Avisford Medical Group in relation to the proposed development at Yew Tree Surgery, North End Road, Yapton, BN18 0DU. The Application Site lies within Arun District Council's (ADC) administrative area.
- 1.2 GTA Civils & Transport Ltd was appointed by the Client to provide a LDIA to support the planning application submitted to ADC as described above. No responsibility is accepted to any third party for all or part of this study in connection with this or any other development.
- 1.3 Arun Local Plan Policy WSP1: Water seeks to ensure that new development encourages water efficiency measures, enhances the quality of water environments and make effective use of SuDS. In particular, development within the Lidsey Wastewater Treatment Works (WWTW) catchment area will be required to take account and contribute where possible to the improvement of the existing sewage and drainage network. Developments within this catchment must therefore be accompanied by a LDIA.

2 Existing Site

- 2.1 Yew Tree Surgery is located on the eastern side of North End Road. The site comprises a parking area alongside the site access, leading to the surgery building at the back of the site. A location plan is included in Appendix A.
- 2.2 Hydrology: There are no existing ditch or water features within or at immediate proximity to the site. It is located within the overall catchment of the Lidsey Rife.
- 2.3 Flood Risk: a separate Flood Risk Assessment (FRA) has been prepared to support this application.
- 2.4 Existing Drainage: The existing drainage network serving the surgery has been surveyed. The CCTV survey report is included in Appendix C. This shows that the existing foul drainage is directed to the existing sewer network in North End Road via gravity. The existing surface water drainage is routed separately to the south of the existing surgery building – presumably to a soakaway sited within the chalk. This could not be confirmed due to excessive silt built-ups, and jetting is recommended prior to any works taking place.
- 2.5 Soil soakage testing to BRE365 has been undertaken at the start of October 2025. This was carried out in the shallower ground (up to 1.05m bgl) in the River Terrace Deposits (sandy clay) present above the chalk bedrock. This indicated that the infiltration rates at those depths are poor, with all tests failing to achieve a fall from 75% to 25% effective depth of water. The full soil soakage test report is enclosed in Appendix B. Groundwater monitoring has not been carried out at this stage, this is further explained in Section 3.

3 Proposed Development & Drainage Impact Assessment

- 3.1 The development comprises the construction of two additional consultation rooms, and a new staff room – extending the existing footprint of the surgery by approximately 21m², over the existing external hardstanding.
- 3.2 The proposed development does not include any new sanitary appliances or any increase in the expected foul effluent load to the existing system. The additional proposed roof areas are located over sections of the site which are currently tarmacked and positively drained to the existing surface water network. There is therefore no change in the overall impermeable areas draining to the existing network.
- 3.3 On that basis, it is expected that the proposed development will have a negligible impact on the existing drainage infrastructure. Opportunities for shallow SuDS features within the existing hardstanding areas were discarded due to the following constraints:
- Car parking levels for the surgery need to be retained
 - There is limited available space outside of Root Protection Areas (RPAs) and away from the existing drainage route, which would be suitable for SuDS without impacting existing access to the surgery.
 - Infiltration rates in the shallow ground are very poor, as outlined in Section 2.
- 3.4 A drainage strategy layout is included in Appendix D. This shows the existing drainage network, as surveyed, and outlines all recommended interventions to cater for the proposed extensions. These include:
- Jetting of the existing surface water network to confirm outfall, and rehabilitate the soakaway if required.
 - Removal of a foul gully which will no longer be required, along with associated existing drainage manhole and drain.
 - Installation of a new surface water catchpit on the existing run to facilitate future maintenance.
- 3.5 As no new SuDS features or any significant below ground drainage works are proposed, it is not considered necessary at this stage to conduct full groundwater monitoring at this site to inform the drainage design.
- 3.6 The on-site drainage network will be constructed in accordance with current best practice to prevent groundwater infiltration and surface water ingress to the foul sewer network. This will minimise the risk of adverse impact on sewer flood risk downstream of the site. This network shall include the following measures:
- No surface water connections permitted to the wastewater system.
 - Use of joint sealant or mass concrete chamber surrounds to prevent infiltration.

- End of Assessment -

Appendix A

Location Plan

PLOT
BOUNDARY



Revisions

PROJECT

Yew Tree Surgery,
North End Road,
Yapton

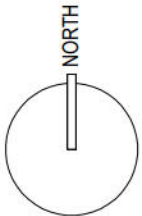
DRAWING

Location Plan

Scale	Date	Drg No
1:1250@A3	May 2025	NE_EX_01
Drawn by	Revision	
RS		



RS Architectural Designs



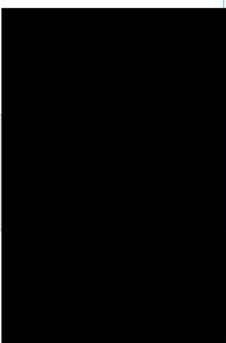
SCALE BAR 1:1250

DO NOT SCALE OFF THIS DRAWING

Appendix B

Site Investigation Report

IPX1210
Soil Infiltration Testing Report
Yew Tree Surgery, North End Road, Yapton,
BN18 0DU
October 25

	Name	Position	Signature	Date
Prepared	Jacob Roby	Geologist/Geotechnical Engineer		10 October 2025
Reviewed	Graham Dowlen	Principal Engineering Geologist		10 October 2025
Authorised	Richard Addison	Managing Director		10 October 2025

Issue	Date	Description	Prepared	Reviewed	Authorised
01	10 October 2025	Final Report	JR	GD	RA

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Appendix E	Soil Infiltration Test Results

Introduction

iPlant have been instructed by GTA Civils to undertake soil infiltration testing at a site at Yew Tree Surgery in Yapton. This report has been prepared in accordance with BS 5930:2015+A1:2020 Code of Practice for Site Investigations.

Grid Reference	497765, 103427
Size of Study Site	0.07 Ha
Topography	6m AOD

The scope of works included one (1no.) trial pit. The infiltration test location was selected by the client and undertaken in accordance with Building Research Establishment (BRE) Digest 365, Soakaway Design, September 1991.

The current proposed development plans comprise:

- An extension to the existing surgery building in the west.

Physical Setting

The site is currently occupied by the existing Yew Tree Surgery with associated car park and areas of soft landscaping, located in the village of Yapton approximately 3.83 miles northeast of Bognor Regis town centre. The site is surrounded by Yew Tree Nursing Home and the B2132 North End Road to the north, residential properties to the east and south, and the B3132 North End Road and a new build development to the west.

Geology

The relevant British Geological Survey (BGS) GeoIndex Onshore online mapping information indicates the site is underlain by the superficial River Terrace Deposits (sand, silt and clay).

With respect to the underlying bedrock geology, the site is identified to be underlain by the Lewes Nodular, Seaford, Newhaven, Culver, and Portsdown Chalk Formations bedrock.

There are no British Geological Survey (BGS) borehole records within 250m of the site.

Radon

The radon potential at the site is indicated to be between 3% and 5%.

Mining

The site is outside the coal mining reporting area as outlined by the Coal Authority (CA).

Unexploded Ordnance (UXO)

The UXO risk at the site is low.

Site Investigation

The works were completed on the 9th October 2025 under the supervision of a Geo-Environmental Engineer from iPlant and was carried out in general accordance with BS5930:2015+A1:2020 and BRE Digest 365.

In summary, the investigation undertaken included:

- Excavation of 1no. trial pit (TP01).
- Subsequent infiltration testing.

The location of exploratory position was selected relative to the proposed development and being free of buried services.

The trial pit was logged in accordance with BS EN ISO 14688 with any groundwater conditions noted.

Upon completion, the trial pit was backfilled, compacted and made good to existing levels and finishes, with any surplus spoil bagged up and removed from site.

The position of the trial pit can be reviewed within Appendix B and the trial pit log is available in Appendix C.

Geology and Groundwater Conditions

Reference to the British Geological Survey databases indicates that the site and surrounding areas are underlain by the superficial River Terrace Deposits (sand, silt and clay), which are underlain by the Lewes Nodular, Seaford, Newhaven, Culver, and Portsdown Chalk Formations bedrock.

Ground Conditions

The following ground conditions were encountered during the works:

Made Ground

Made Ground was encountered in TP01 to a depth of 0.50m bgl and comprised the following populations:

- Tarmac was encountered from ground level to a depth of 0.20m bgl.
- Dark brown slightly clayey gravelly fine to coarse sand with constituents of brick, concrete, limestone, tarmac, and wood was encountered from a depth of 0.20m bgl to a depth of 0.50m bgl.

River Terrace Deposits

Superficial deposits were encountered in TP01 from a depth of 0.50m bgl to a depth of 1.05m bgl and comprised stiff brown sandy CLAY.

Lewes Nodular, Seaford, Newhaven, Culver, and Portsdown Chalk Formations

Bedrock deposits were not encountered during the investigation.

Groundwater

Groundwater was not encountered during the investigation.

It should be noted that groundwater levels are dependent upon seasonal variations and can change after periods of prolonged rainfall or drought.

Photographs can be reviewed in Appendix D.

Infiltration Testing

During the soakaway tests the water failed to achieve a fall from 75% to 25% of the effective depth of the storage volume in the pit. The results obtained from the soakaway tests are summarised below:

TP and Test Number	Dimensions (m)	Depth (m bgl)	Infiltration Rate (m/sec)	Drainage Characteristics
TP01 Test 1	0.70 x 0.50	1.05	N/A	Poor
TP01 Test 2	0.70 x 0.50	1.05	N/A	Poor
TP01 Test 3	0.70 x 0.50	1.05	N/A	Poor

Conclusion

The naturally occurring shallow soils encountered beneath the site were found to be sandy Clay. The soakage rates obtained during the investigation were found to be poor. Given the data from the test, it is considered that the use of shallow soakaways is not suitable for this site.

The detailed soil infiltration test results can be reviewed within Appendix E.

Notes and Limitations

iPlant take no responsibility for conditions which have not been revealed by the trial pits, or which occur between trial pits. Whilst every effort has been made to interpret the conditions between investigation locations, such information is only indicative, and liability cannot be accepted for its accuracy.

The information contained in this report is intended for the use of the named client (or their approved contractors). Should a third party rely on any part of this report, that party does so wholly at its own risk and iPlant disclaim any liability to such parties. Should the purposes for which the report is used, or the proposed use of the site change, this report may no longer be valid and further use of reliance upon the report in those circumstances shall be at the client's sole and own risk. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. iPlant should in all such altered circumstances be commissioned to review and update this report accordingly.

iPlant take no responsibility for any construction design, foundation design, final design and structural plans that the customer chooses to carry out or implement. iPlant provide a factual report based on the information we find and our opinions/interpretation of the data.

iPlant have not been instructed to carry out a Euro Code (7) design or global slope stability assessment.

The site works carried out are a snapshot in time and environmental/other factors can alter ground conditions in which iPlant take no responsibility for. It is down to the customer to ascertain if further investigations are required if a long period of time passes between report and implementation.

Limitations and Uncertainties

iPlant have prepared this report with all reasonable skill, care and diligence. The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources.

The opinions given in this report have been dictated by the finite data on which are they based and are relevant only to the purpose for which the report was commissioned.

Information reviewed should not be considered exhaustive and has accepted in good faith as providing true and representative data with respect to site conditions. Should additional information become available which may influence the opinion expressed in this report, iPlant reserves the right to review such information and, if warranted, to alter the opinions accordingly.

It should be noted that any risks identified in this report are perceived risks based on the information reviewed.

The recommendations contained in this report represent our professional opinions. These opinions were arrived at in accordance with currently accepted industry practices at this time and as such are not a guarantee that the study site is free of hazardous conditions.

IPX1210

Yew Tree Surgery, North End Road, Yapton, BN18 0DU

October 25



This report has been prepared solely for the use of the named client and may not be relied upon by other parties without written consent from iPlant. iPlant disclaim any responsibility to the client and others in respect of any matters outside the agreed scope of the work.



Appendix A – Industry References

British Standards Institution 'Investigation of Potentially Contaminated sites - Code of Practice' BS 10175:2017.

British Standards Institution 'Code of Practice for Site Investigations' BS 5930:2015.

British Standards Institution "Geotechnical investigation and testing - Identification and classification of soil" BS EN ISO 14688:2002.

BRE Report BR211 'Radon - Guidance on protective measures for new buildings' 2015 Edition.

Water Framework Directive.

Environmental Quality Standards.

BRE Digest 365 "Soakaway Design" 2015.

IPX1210

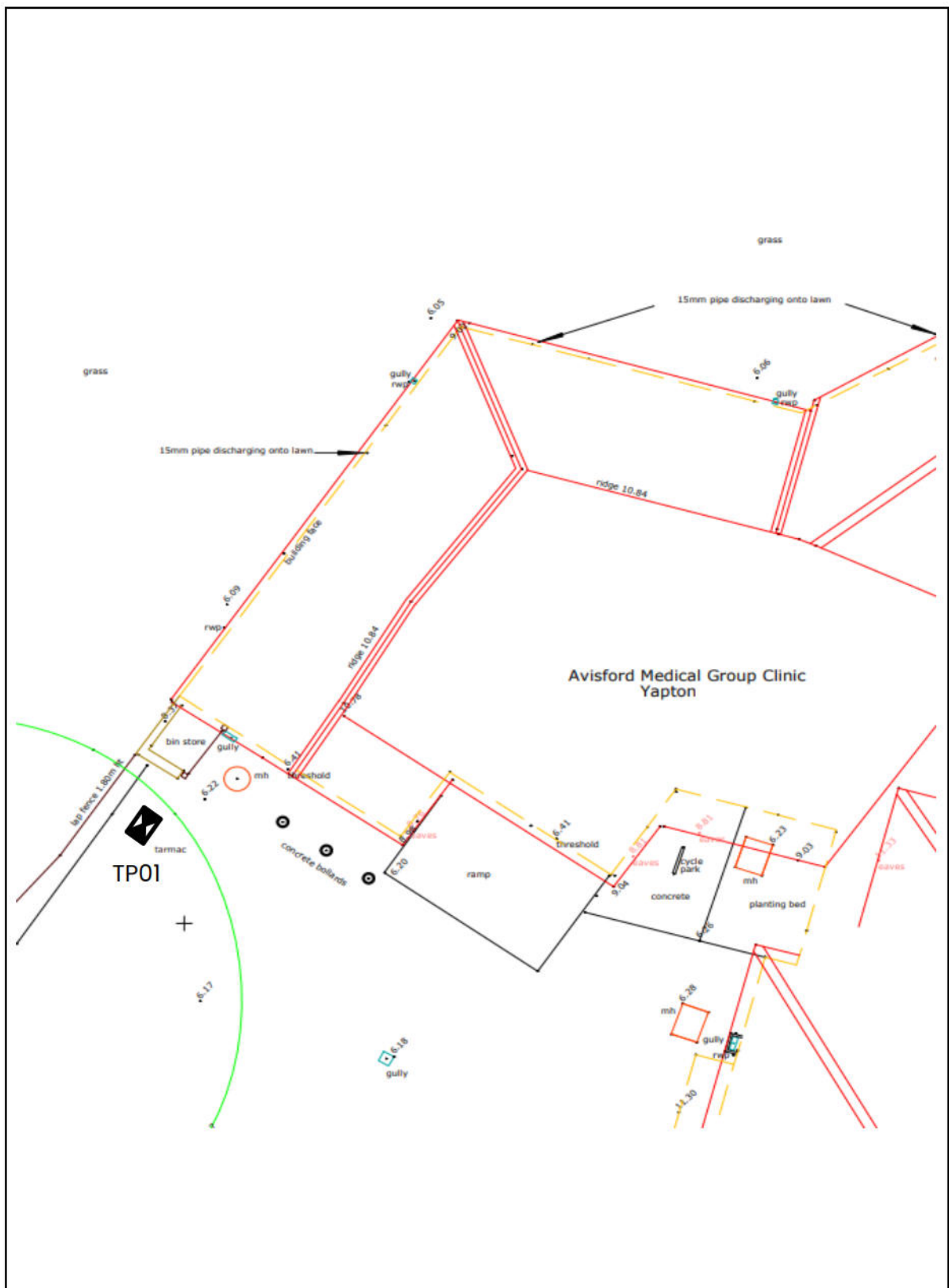
Yew Tree Surgery, North End Road, Yapton, BN18 0DU

October 25



Appendix B – Trial Pit Plan





Site Investigation Plan



Yew Tree Surgery, Yapton
IPX1210
10/10/2025

IPX1210

Yew Tree Surgery, North End Road, Yapton, BN18 0DU

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Appendix C – Trial Pit Log





Trial Pit Log

TrialPit No
TP01
Sheet 1 of 1

Project Name: Yew Tree Surgery

Project No.
IPX1210

Co-ords: -
Level:

Date
09/10/2025

Location: Yapton

Dimensions (m):
0.70
0.50
Depth 1.05

Scale
1:25

Logged
JR

Client: GTA Civils

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Tarmac.	
				0.50			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to rounded fine to coarse of brick, concrete, limestone, tarmac, and wood.	
				1.05			Stiff brown sandy CLAY. Sand is fine to coarse.	
							End of Pit at 1.05m	

Remarks: Location cleared of services using handheld CAT scanner. Trial pit excavated to 1.05m bgl. No groundwater encountered. Soil infiltration testing carried out. Trial pit backfilled with arisings.

Stability: Stable



IPX1210

Yew Tree Surgery, North End Road, Yapton, BN18 0DU

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Appendix D – Trial Pit Photographs



IPX1210
Walkover Photos



TP01



Depth of tarmac encountered.

TP01 During the Tests



TP01 Backfilled



IPX1210

Yew Tree Surgery, North End Road, Yapton, BN18 0DU

October 25



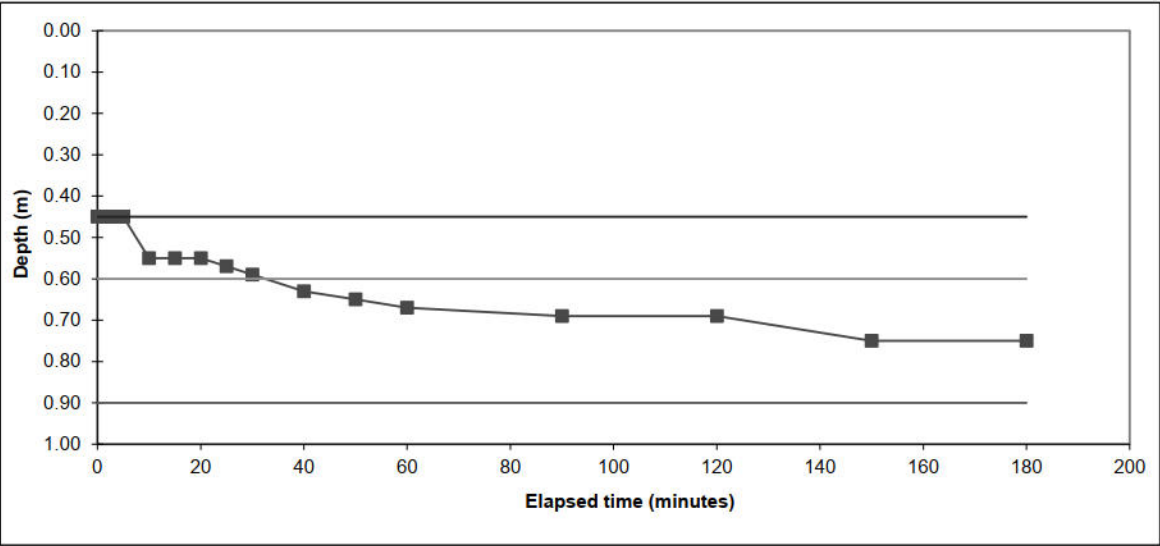
Appendix E – Soil Infiltration Test Results



iPlant Geotechnical

Soakaway Test

Trial Pit No:	TP01	Test No:	1	Date:	09/10/2025
Length (m):	0.700	Datum Height:		0.00 m agl	
Width (m):	0.50	Granular infill:	None		
Depth (m):	1.05	Porosity of infill:	1	(assumed)	
Elapsed time (minutes)		Water Depth (m below datum)			
0		0.450		90	
1		0.450		120	
2		0.450		150	
3		0.450		180	
4		0.450			
5		0.450			
10		0.550			
15		0.550			
20		0.550			
25		0.570			
30		0.590			
40		0.630			
50		0.650			
60		0.670			



Start water depth for analysis (mbgl)	0.45		
75% effective depth (mbgl):	0.60	Elapsed time (mins):	32.5
50% effective depth (mbgl):	0.75		
25% effective depth (mbgl):	0.90	Elapsed time (mins):	#N/A
Base of soakage zone (mbgl):	1.05		

Volume outflow between 75% and 25% effective depth (m³):

Mean surface area of outflow (m²): 1.07

(side area at 50% effective depth + base area)

Time for outflow between 75% and 25% effective depth (mins):

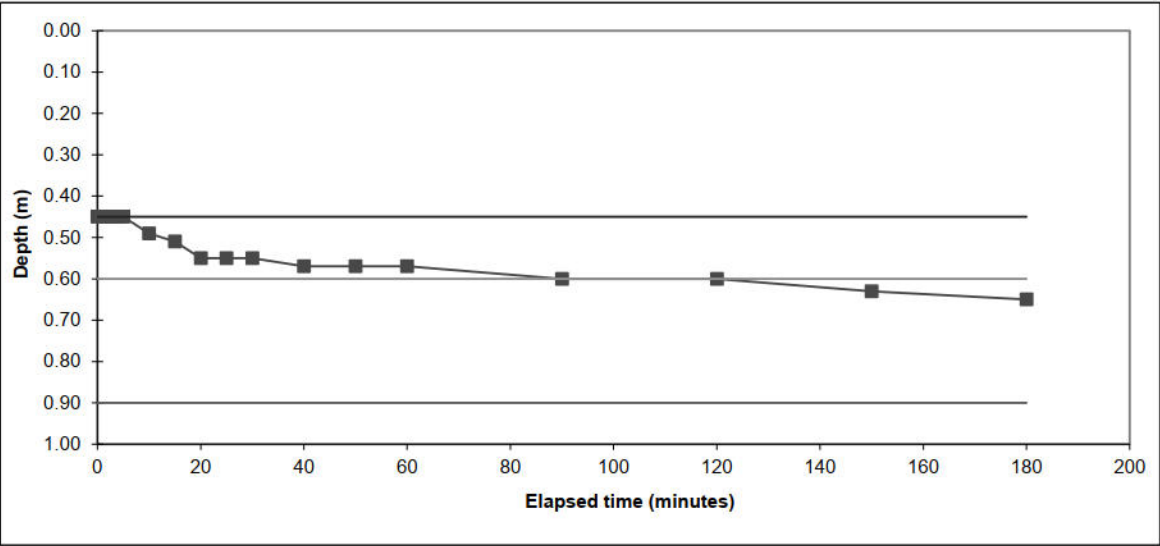
Soil infiltration rate (m/s):	Test incomplete as 25% effective depth not achieved. Unable to reliably determine soil infiltration rate.
Remarks	Results processed following BRE 365 (2007).

Client:	GTA Civils	
Site:	Yew Tree Surgery, Yapton	TP01

iPlant Geotechnical

Soakaway Test

Trial Pit No:	TP01	Test No:	2	Date:	09/10/2025
Length (m):	0.700	Datum Height:	0.00 m agl		
Width (m):	0.50	Granular infill:	None		
Depth (m):	1.05	Porosity of infill:	1	(assumed)	
	Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)	
	0	0.450	90	0.600	
	1	0.450	120	0.600	
	2	0.450	150	0.630	
	3	0.450	180	0.650	
	4	0.450			
	5	0.450			
	10	0.490			
	15	0.510			
	20	0.550			
	25	0.550			
	30	0.550			
	40	0.570			
	50	0.570			
	60	0.570			



Start water depth for analysis (mbgl)	0.45		
75% effective depth (mbgl):	0.60	Elapsed time (mins):	120.0
50% effective depth (mbgl):	0.75		
25% effective depth (mbgl):	0.90	Elapsed time (mins):	#N/A
Base of soakage zone (mbgl):	1.05		

Volume outflow between 75% and 25% effective depth (m³):
Mean surface area of outflow (m²): 1.07
(side area at 50% effective depth + base area)
Time for outflow between 75% and 25% effective depth (mins):

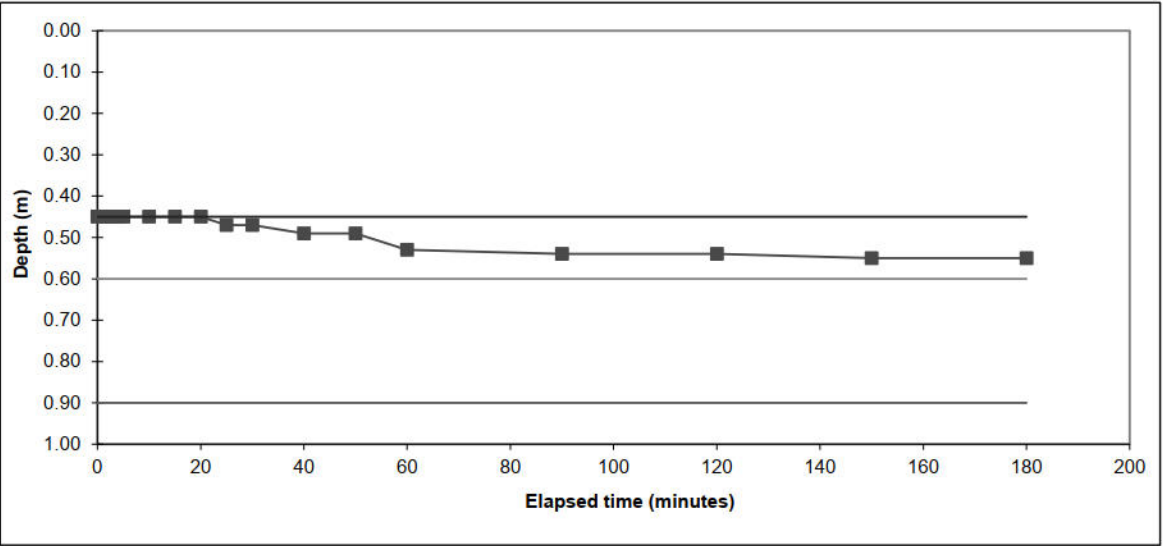
Soil infiltration rate (m/s):	Test incomplete as 25% effective depth not achieved. Unable to reliably determine soil infiltration rate.
Remarks	Results processed following BRE 365 (2007).

Client:	GTA Civils	
Site:	Yew Tree Surgery, Yapton	TP01

iPlant Geotechnical

Soakaway Test

Trial Pit No:	TP01	Test No:	3	Date:	09/10/2025
Length (m):	0.700	Datum Height:	0.00 m agl		
Width (m):	0.50	Granular infill:	None		
Depth (m):	1.05	Porosity of infill:	1	(assumed)	
	Elapsed time (minutes)	Water Depth (m below datum)	Elapsed time (minutes)	Water Depth (m below datum)	
	0	0.450	90	0.540	
	1	0.450	120	0.540	
	2	0.450	150	0.550	
	3	0.450	180	0.550	
	4	0.450			
	5	0.450			
	10	0.450			
	15	0.450			
	20	0.450			
	25	0.470			
	30	0.470			
	40	0.490			
	50	0.490			
	60	0.530			



Start water depth for analysis (mbgl)	0.45		
75% effective depth (mbgl):	0.60	Elapsed time (mins):	#N/A
50% effective depth (mbgl):	0.75		
25% effective depth (mbgl):	0.90	Elapsed time (mins):	#N/A
Base of soakage zone (mbgl):	1.05		

Volume outflow between 75% and 25% effective depth (m ³):	
Mean surface area of outflow (m ²):	1.07
(side area at 50% effective depth + base area)	
Time for outflow between 75% and 25% effective depth (mins):	

Soil infiltration rate (m/s):	Test incomplete as 25% effective depth not achieved. Unable to reliably determine soil infiltration rate.
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Remarks	Results processed following BRE 365 (2007).
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Client:	GTA Civils	
Site:	Yew Tree Surgery, Yapton	TP01



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Appendix C

CCTV Survey Report

Project

Project Name: Yapton Surgery
Project Description: CCTV Survey, trace & plot
Project Status: Complete
Project Date: 23/07/2025
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)



EYES ON DRAINAGE

CCTV-Trace-Plot-Map-Repair

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Project Information

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

Site

Company: Avisford Medical Group
Contact: Paul Lovell
Department: Yapton GP Surgery
Street: North End Rd
Town or City: Yapton
County: W.Sussex
Post Code: BN18 0DU

Contractor

Company: Eyes On Drainage Services Ltd
Contact: Jay Young
Department: Merrion House
Street: Bines Green
Town or City: Horsham
County: West Sussex
Post Code: RH13 8EH
Phone: [REDACTED]
Mobile: [REDACTED]
Email: [REDACTED]



Project Information**Project Name**
Yapton Surgery**Project Number****Project Date**
23/07/2025**Project Notes**

The survey was undertaken to establish the layout and general condition of the existing below ground drainage.

The property is served by separate foul and surface water drainage, the foul water discharging to a Southern Water sewer, and the surface water assumed to discharge to a local soakaway/s.

Root ingress was identified within several sections of drainage, with heavy ingress noted within the last two sections of foul drainage to the sewer.
Joint displacements were also recorded.

Heavy silt deposit was identified within the surface water network, and other attached debris recorded within some foul sections.

Consideration should be made to remediate the root ingress and joint displacements, and we recommend the debris is removed by means of high pressure jetting.

A quotation is available on request.



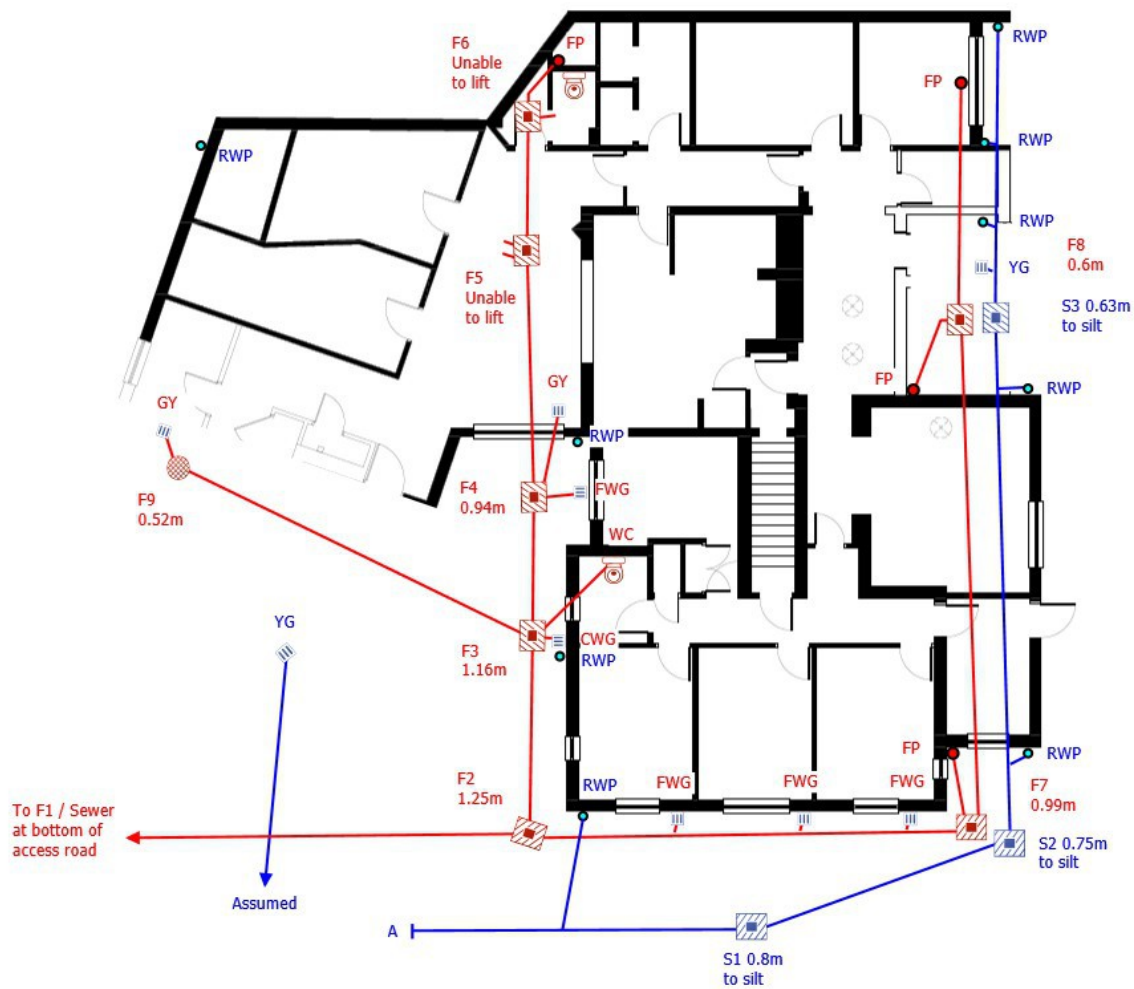
Project Information

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

Project Drawing, Page 'Yew Tree Surgery'



Scoring Summary

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

Structural Defects

Section	PLR	Grade	Description
All inspected pipes are in an acceptable structural condition (< grade 3).			

Service / Operational Condition

- Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.
- Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.
- Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	S3X	4	Settled deposits, fine, 5% cross-sectional area loss, finish
2	S2X	3	Settled deposits, coarse, 10% cross-sectional area loss, finish
4	F8X	3	Attached deposits, grease from 8 o'clock to 4 o'clock, 5% cross-sectional area loss, finish
5	FPX	4	Settled deposits, coarse, 20% cross-sectional area loss
8	F9X	3	Settled deposits, other, 5% cross-sectional area loss, finish
10	F4X	3	Joint displaced, medium
17	GYX	3	Multiple defects
19	S1X	3	Settled deposits, fine, 100% cross-sectional area loss, finish
21	RWGX	3	Multiple defects
22	F2X	5	Multiple defects
23	F1X	5	Roots, mass at joint, 10% cross-sectional area loss, finish

Abandoned Surveys

Section	PLR	Description
7	F2X	Survey abandoned
19	S1X	Survey abandoned
22	F2X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

Project Pictures

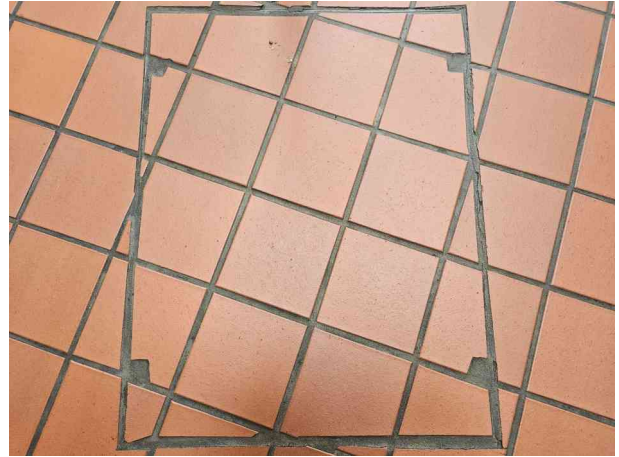
Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025



F2



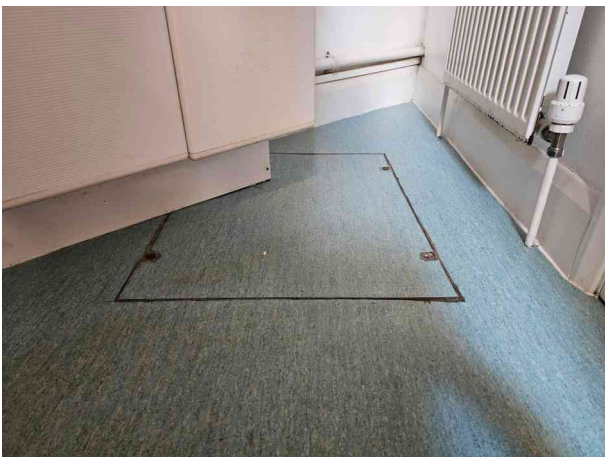
F5



F4



F3



F6



F7

Project Pictures

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025



F8



MH1



S1



S2



S3

Section Profile

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	S3	S2	23/07/2025	North End Road	Polyvinyl chloride	13.30 m	13.30 m
2	S2	S1	23/07/2025	North End Road	Polyvinyl chloride	8.00 m	8.00 m
3	FP	F7	23/07/2025	North End Road	Polyvinyl chloride	2.00 m	2.00 m
4	F8	F7	23/07/2025	North End Road	Polyvinyl chloride	12.70 m	12.70 m
5	FP	F8	23/07/2025	North End Road	Polyvinyl chloride	5.90 m	5.70 m
6	F7	F2	23/07/2025	North End Road	Polyvinyl chloride	12.50 m	12.50 m
8	F9	F3	23/07/2025	North End Road	Polyvinyl chloride	10.40 m	10.40 m
9	GY	F9	23/07/2025	North End Road	Polyvinyl chloride	0.50 m	0.50 m
10	F4	F3	23/07/2025	North End Road	Vitrified clay	3.60 m	3.60 m
11	F5	F4	23/07/2025	North End Road	Vitrified clay	5.30 m	5.30 m
12	F6	F5	23/07/2025	North End Road	Polyvinyl chloride	3.80 m	3.80 m
13	FP	F6	23/07/2025	North End Road	Polyvinyl chloride	2.30 m	2.30 m
14	WC	F3	23/07/2025	North End Road	Vitrified clay	2.30 m	2.30 m
15	F3	F2	23/07/2025	North End Road	Vitrified clay	6.10 m	6.10 m
16	FWG	F3	23/07/2025	North End Road	Polyvinyl chloride	0.50 m	0.50 m
17	GY	F4	23/07/2025	North End Road	Vitrified clay	2.30 m	2.30 m
18	FWG	F4	23/07/2025	North End Road	Polyvinyl chloride	1.50 m	1.50 m
20	FP	F8	23/07/2025	North End Road	Polyvinyl chloride	1.80 m	1.80 m
21	RWG	S3	23/07/2025	North End Road	Polyvinyl chloride	8.90 m	8.90 m

Total: 19 Inspections x Circular 100 mm, 0 mm = 103.70 m Total Length and 103.50 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
23	F1	Sewer	23/07/2025	North End Road	Vitrified clay	7.20 m	7.20 m

Total: 1 Inspection x Circular 150 mm, 0 mm = 7.20 m Total Length and 7.20 m Inspected Length

Total: 20 Inspections = 110.90 m Total Length and 110.70 m Inspected Length

Section Summary

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

Number of sections	23
Total length of sections	168.10 m
Total length of inspected sections	167.90 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	3
Number of section inspection photos	121
Number of section inspection videos	23
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	S3X	Upstream Node:	S3
Inspection Direction:	Upstream	Downstream Node:	S2
Inspected Length:	13.30 m	Dia/Height:	100 mm
Total Length:	13.30 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S2
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.30	WL	Water level, 20% of the vertical dimension
4	0.70	CUW	Loss of vision, camera under water, start
5	1.70	JN	Junction at 3 o'clock, 100mm dia
6	2.30	CUW	Loss of vision, camera under water, finish
7	2.30	DES	Settled deposits, fine, 20% cross-sectional area loss, start
8	4.00	DES	Settled deposits, fine, 40% cross-sectional area loss, change
9	6.00	DES	Settled deposits, fine, 20% cross-sectional area loss, change
10	6.60	DES	Settled deposits, fine, 5% cross-sectional area loss, change
11	9.50	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
12	12.70	JN	Junction at 3 o'clock, 100mm dia
13	13.30	CPF	Finish node, catchpit, reference: S3

PLR:	S2X	Upstream Node:	S2
Inspection Direction:	Downstream	Downstream Node:	S1
Inspected Length:	8.00 m	Dia/Height:	100 mm
Total Length:	8.00 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S2
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.30	JN	Junction at 2 o'clock, 100mm dia

Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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No.	m+	Code	Observation
4	6.60	DER	Settled deposits, coarse, 10% cross-sectional area loss, start
5	6.90	DER	Settled deposits, coarse, 20% cross-sectional area loss, change
6	7.60	DER	Settled deposits, coarse, 10% cross-sectional area loss, change
7	7.60	WL	Water level, 5% of the vertical dimension
8	7.80	WL	Water level, 0% of the vertical dimension
9	7.80	DER	Settled deposits, coarse, 10% cross-sectional area loss, finish
10	8.00	CPF	Finish node, catchpit, reference: S1

PLR:	FPX	Upstream Node:	FP
Inspection Direction:	Upstream	Downstream Node:	F7
Inspected Length:	2.00 m	Dia/Height:	100 mm
Total Length:	2.00 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F7
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.80	LU	Line deviates up
4	2.00	MHF	Finish node, manhole, reference: FP

PLR:	F8X	Upstream Node:	F8
Inspection Direction:	Upstream	Downstream Node:	F7
Inspected Length:	12.70 m	Dia/Height:	100 mm
Total Length:	12.70 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F7
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	DEG	Attached deposits, grease from 3 o'clock to 8 o'clock, 10% cross-sectional area loss, start
4	0.30	WL	Water level, 0% of the vertical dimension
5	0.50	DEG	Attached deposits, grease from 4 o'clock to 8 o'clock, 5% cross-sectional area loss, change
6	1.30	DEG	Attached deposits, grease from 8 o'clock to 4 o'clock, 5% cross-sectional area loss, change
7	4.40	DEG	Attached deposits, grease from 8 o'clock to 4 o'clock, 5% cross-sectional area loss, finish
8	12.70	MHF	Finish node, manhole, reference: F8

PLR:	FPX	Upstream Node:	FP
Inspection Direction:	Upstream	Downstream Node:	F8
Inspected Length:	5.70 m	Dia/Height:	100 mm
Total Length:	5.90 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F8
2	0.00	WL	Water level, 0% of the vertical dimension
3	5.60	LU	Line deviates up
4	5.60	DER	Settled deposits, coarse, 20% cross-sectional area loss
5	5.70	MHF	Finish node, manhole, reference: FP

Section Summary

Project Name
Yapton Surgery

Project Number

Project Date
23/07/2025

PLR:	F7X	Upstream Node:	F7
Inspection Direction:	Downstream	Downstream Node:	F2
Inspected Length:	12.50 m	Dia/Height:	100 mm
Total Length:	12.50 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F7
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.00	JN	Junction at 12 o'clock, 100mm dia
4	4.90	JN	Junction at 12 o'clock, 100mm dia
5	8.00	JN	Junction at 12 o'clock, 100mm dia
6	8.00	WL	Water level, 5% of the vertical dimension
7	8.60	WL	Water level, 20% of the vertical dimension
8	12.00	WL	Water level, 10% of the vertical dimension
9	12.40	WL	Water level, 5% of the vertical dimension
10	12.50	MHF	Finish node, manhole, reference: F2

PLR:	F2X	Upstream Node:	F2
Inspection Direction:	Downstream	Downstream Node:	F1
Inspected Length:	41.00 m	Dia/Height:	150 mm
Total Length:	41.00 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F2
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.20	RFJ	Roots, fine at joint, start
4	13.20	WL	Water level, 10% of the vertical dimension
5	13.20	RM	Roots, mass, 10% cross-sectional area loss, start
6	17.50	RM	Roots, mass, 10% cross-sectional area loss, finish
7	25.40	WL	Water level, 10% of the vertical dimension
8	27.20	RFJ	Roots, fine at joint, finish
9	27.30	CUW	Loss of vision, camera under water, start
10	41.00	CUW	Loss of vision, camera under water, finish
11	41.00	SA	Survey abandoned, Unable to pass assumed root mass

PLR:	F9X	Upstream Node:	F9
Inspection Direction:	Upstream	Downstream Node:	F3
Inspected Length:	10.40 m	Dia/Height:	100 mm
Total Length:	10.40 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	DEX	Settled deposits, other, 10% cross-sectional area loss, start
4	0.30	DEX	Settled deposits, other, 5% cross-sectional area loss, change
5	4.00	DEX	Settled deposits, other, 5% cross-sectional area loss, finish
6	10.40	MHF	Finish node, manhole, reference: F9

Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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PLR:	GYX	Upstream Node:	GY
Inspection Direction:	Upstream	Downstream Node:	F9
Inspected Length:	0.50 m	Dia/Height:	100 mm
Total Length:	0.50 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F9
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.30	LU	Line deviates up
4	0.50	GYF	Finish node, gully, reference: GY

PLR:	F4X	Upstream Node:	F4
Inspection Direction:	Upstream	Downstream Node:	F3
Inspected Length:	3.60 m	Dia/Height:	100 mm
Total Length:	3.60 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F3
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.30	JDM	Joint displaced, medium
4	3.60	MHF	Finish node, manhole, reference: F4

PLR:	F5X	Upstream Node:	F5
Inspection Direction:	Upstream	Downstream Node:	F4
Inspected Length:	5.30 m	Dia/Height:	100 mm
Total Length:	5.30 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F4
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	MCPVC	Pipe material changes to polyvinyl chloride at this point
4	5.30	MHF	Finish node, manhole, reference: F5

PLR:	F6X	Upstream Node:	F6
Inspection Direction:	Upstream	Downstream Node:	F5
Inspected Length:	3.80 m	Dia/Height:	100 mm
Total Length:	3.80 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F5
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.80	MHF	Finish node, manhole, reference: F6

PLR:	FPX	Upstream Node:	FP
Inspection Direction:	Upstream	Downstream Node:	F6
Inspected Length:	2.30 m	Dia/Height:	100 mm
Total Length:	2.30 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F6
2	0.00	WL	Water level, 5% of the vertical dimension, Live
3	0.60	MCVC	Pipe material changes to vitrified clay at this point

Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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No.	m+	Code	Observation
4	0.70	JN	Junction at 12 o'clock, 100mm dia
5	0.80	MCPVC	Pipe material changes to polyvinyl chloride at this point
6	1.90	LU	Line deviates up
7	2.30	MHF	Finish node, manhole, reference: FP

PLR:	WCX	Upstream Node:	WC
Inspection Direction:	Upstream	Downstream Node:	F3
Inspected Length:	2.30 m	Dia/Height:	100 mm
Total Length:	2.30 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F3
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.90	LU	Line deviates up
4	2.30	MHF	Finish node, manhole, reference: WC

PLR:	F3X	Upstream Node:	F3
Inspection Direction:	Downstream	Downstream Node:	F2
Inspected Length:	6.10 m	Dia/Height:	100 mm
Total Length:	6.10 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	RFJ	Roots, fine at joint
4	6.10	MHF	Finish node, manhole, reference: F2

PLR:	FWGX	Upstream Node:	FWG
Inspection Direction:	Upstream	Downstream Node:	F3
Inspected Length:	0.50 m	Dia/Height:	100 mm
Total Length:	0.50 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.30	LU	Line deviates up
4	0.50	GYF	Finish node, gully, reference: FWG

PLR:	GYX	Upstream Node:	GY
Inspection Direction:	Upstream	Downstream Node:	F4
Inspected Length:	2.30 m	Dia/Height:	100 mm
Total Length:	2.30 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F4
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	0.30	LL	Line deviates left
5	0.50	DEX	Settled deposits, other, 25% cross-sectional area loss, finish
6	0.80	OJM	Open joint, medium

Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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No.	m+	Code	Observation
7	0.80	MCPVC	Pipe material changes to polyvinyl chloride at this point
8	0.80	JDM	Joint displaced, medium
9	1.10	DES	Settled deposits, fine, 10% cross-sectional area loss
10	1.50	LR	Line deviates right
11	1.50	LU	Line deviates up, start
12	2.30	LU	Line deviates up, finish
13	2.30	GYF	Finish node, gully, reference: GY, Unable to locate assumed concealed

PLR:	FWGX	Upstream Node:	FWG
Inspection Direction:	Upstream	Downstream Node:	F4
Inspected Length:	1.50 m	Dia/Height:	100 mm
Total Length:	1.50 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F4
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LU	Line deviates up, start
4	0.80	LU	Line deviates up, finish
5	1.30	LU	Line deviates up
6	1.50	GYF	Finish node, gully, reference: FWG

PLR:	S1X	Upstream Node:	S1
Inspection Direction:	Downstream	Downstream Node:	A
Inspected Length:	7.60 m	Dia/Height:	100 mm
Total Length:	7.60 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S1
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	DES	Settled deposits, fine, 5% cross-sectional area loss, start
4	3.60	DES	Settled deposits, fine, 20% cross-sectional area loss, change
5	5.80	DES	Settled deposits, fine, 30% cross-sectional area loss, change
6	6.40	DES	Settled deposits, fine, 5% cross-sectional area loss, change
7	6.40	JN	Junction at 3 o'clock, 100mm dia
8	7.60	DES	Settled deposits, fine, 100% cross-sectional area loss, finish
9	7.60	SA	Survey abandoned, Unable to pass heavy silt

PLR:	FPX	Upstream Node:	FP
Inspection Direction:	Upstream	Downstream Node:	F8
Inspected Length:	1.80 m	Dia/Height:	100 mm
Total Length:	1.80 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F8
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	DEG	Attached deposits, grease from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, start
4	1.50	DEG	Attached deposits, grease from 12 o'clock to 12 o'clock, 5% cross-sectional area loss, change
5	1.60	LU	Line deviates up

Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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No.	m+	Code	Observation
6	1.70	DEG	Attached deposits, grease from 12 o'clock to 12 o'clock, 5% cross-sectional area loss, finish
7	1.80	MHF	Finish node, manhole, reference: FP

PLR:	RWGX	Upstream Node:	RWG
Inspection Direction:	Upstream	Downstream Node:	S3
Inspected Length:	8.90 m	Dia/Height:	100 mm
Total Length:	8.90 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	WL	Water level, 10% of the vertical dimension
4	0.40	DES	Settled deposits, fine, 5% cross-sectional area loss, start
5	0.40	JN	Junction at 9 o'clock, 100mm dia
6	0.60	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
7	0.60	WL	Water level, 0% of the vertical dimension
8	0.80	JN	Junction at 9 o'clock, 100mm dia
9	5.80	DES	Settled deposits, fine, 10% cross-sectional area loss, start
10	6.90	JN	Junction at 9 o'clock, 100mm dia
11	7.60	DES	Settled deposits, fine, 30% cross-sectional area loss, change
12	8.80	LU	Line deviates up
13	8.80	DES	Settled deposits, fine, 30% cross-sectional area loss, finish
14	8.90	MHF	Finish node, manhole, reference: RWG

PLR:	F2X	Upstream Node:	F2
Inspection Direction:	Upstream	Downstream Node:	F1
Inspected Length:	8.60 m	Dia/Height:	150 mm
Total Length:	8.60 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F1
2	0.00	WL	Water level, 5% of the vertical dimension, Live
3	1.50	RMJ	Roots, mass at joint, 20% cross-sectional area loss, start
4	8.60	DEX	Settled deposits, other, 100% cross-sectional area loss
5	8.60	RMJ	Roots, mass at joint, 100% cross-sectional area loss, finish, Assumed rootmass causing blockage
6	8.60	SA	Survey abandoned, Unable to pass.

PLR:	F1X	Upstream Node:	F1
Inspection Direction:	Downstream	Downstream Node:	Sewer
Inspected Length:	7.20 m	Dia/Height:	150 mm
Total Length:	7.20 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F1
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.70	RMJ	Roots, mass at joint, 30% cross-sectional area loss, start
4	2.60	RMJ	Roots, mass at joint, 80% cross-sectional area loss, change
5	5.80	RMJ	Roots, mass at joint, 10% cross-sectional area loss, finish



Section Summary

Project Name Yapton Surgery	Project Number	Project Date 23/07/2025
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No.	m+	Code	Observation
6	5.90	JN	Junction at 12 o'clock, 150mm dia
7	6.80	LD	Line deviates down
8	7.20	BRF	Finish node, major connection without manhole, reference: Sewer

Appendix D

Drainage Layout

ABBREVIATIONS

D307.0	DETAIL NUMBER - SEE DRAINAGE DETAIL SHEET
FD	FOUL DRAIN
SWD	SURFACE WATER DRAIN
FWS	ADOPTABLE FOUL WATER SEWER
SWS	ADOPTABLE SURFACE WATER SEWER
MH	MANHOLE
IC	INSPECTION CHAMBER
SA	SOAKAWAY
FTC	450mm DIA. FOUL INSPECTION CHAMBER - D202.6
SIC	450mm DIA. SURFACE WATER INSPECTION CHAMBER - D202.6
FAC	300mm DIA. FOUL ACCESS CHAMBER - D202.18
SAC	300mm DIA. SURFACE WATER ACCESS CHAMBER - D202.18
CI	CAST IRON
VC	VITRIFIED CLAY
CONC	CONCRETE
PVC-U	POLYVINYL CHLORIDE - UNPLASTICISED
G	SMALL GULLY - D209.0
YG	YARD GULLY - D209.2
RG	ROAD GULLY - D208.1
CPG	CAR PARK GULLY - D208.2
DP	BELOW GROUND DRAIN POINT
SVP	SOIL VENT PIPE DROP
SS	STUB STACK OR DIRECT DRAIN CONNECTION
RP	EXTERNAL RODDING POINT - D213.1
DT	SURFACE WATER DISTRIBUTION TANK
FFL	FINISHED FLOOR LEVEL
SSL	STRUCTURAL SLAB LEVEL
GL	GROUND LEVEL
CL	COVER LEVEL
IL	INVERT LEVEL
SL	SUMP LEVEL
BL	BASE LEVEL
HL	HIGH LEVEL
BD	BACKDROP
CBS	CONCRETE BED & SURROUND
CLASS S	GRANULAR BED & SURROUND
CLASS B	GRANULAR BED

DESIGN NOTES

1. DRAIN POINTS AND LOCATIONS TO BE CONFIRMED BY ARCHITECT.
2. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
3. OPPORTUNITY FOR SUDS LIMITED DUE TO POOR INFILTRATION IN SHALLOW GROUND AND LIMITED PROPOSED ROOF AREAS. NO CHANGE IN OVERALL IMPERMEABLE AREA DRAINING TO DOWNSTREAM NETWORK.
4. NO NEW FOUL CONNECTIONS ARE PROPOSED.



GENERAL NOTES

1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non-intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to gta prior to works commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be site confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.
7. If viewing this drawing as an Autocad file (.dwg) in digital format then it is done so with this Disclaimer due to the fact that it can be altered and manipulated following its issue by GTA Civils & Transport and therefore, any alteration or modification of DWG data files provided by GTA Civils & Transport, by you or a third party, without GTA Civils and Transport's express written approval, is done so entirely at your own risk. Modification includes (but is not limited to) turning layers on and off, unfreezing layers and reloading, turning on and off print functions and unloading x-refs.
8. Your attention is also drawn to the fact that the information contained within this file may be subject to alteration at any time, pending technical approval from an approving authority or at the client's instruction. It is therefore strongly recommended that multiple and regular cross checks are made against the current contract drawings.
9. Should any apparent discrepancies between the data contained within the DWG file and the current contract drawings become evident, it must be reported back to GTA Civils & Transport as soon as reasonably practicable. Precedence should be given to the current contract drawings (PDF) unless advised otherwise.

SPECIFICATION NOTES

All drainage shall be constructed and commissioned in accordance with BS EN 295 & BS EN752, Building Regulations Doc. H and any particular requirements of the Building Control Officer.

Drainage pipelines shall be in PVC-U below ground as Marley or similar approved, or vitrified clay.
All sewer pipelines to be VC only.

This drawing shall be read in conjunction with all other relevant drainage drawings, architectural drawings and structural drawings.

For manhole details, gully details, bedding etc, refer to gta detail sheets.

All foul water drain runs shall have a fall of 1:40 or steeper, unless noted otherwise.

All cement used for concrete drainage installations shall be sulphate resistant to class 3 of BRE Digest 363, (Grade ST5)

The use of short radius or 90° bends for changes in direction is not permitted, only long or medium radius 45° bends shall be used. All junctions shall be 45°.

All drains shall have granular bed and surround as class 'S' bedding, unless noted otherwise.

All drainage works shall commence from the downstream end first unless agreed otherwise. Outfall level to be checked by contractor prior to any works commencing and any discrepancy identified to engineer prior to laying and drainage.

KEY

- Existing surface water drain
- Existing foul water drain
- Private surface water drain



P1	FIRST ISSUE	29.10.25	FV	MR	
Rev	Amendments	Date	Dsn	Chk	
Status PRELIMINARY					
Client AVISFORD MEDICAL GROUP					
Architect RS ARCHITECTURAL DESIGN					
Project YEW TREE SURGERY NORTH END ROAD, YAPTON					
Title DRAINAGE STRATEGY					
Date OCTOBER 2025		Scale @ A1 1:100			
Clients Ref.		Project Ref. 14010			
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Drawing Number 14010_1100				Rev. P1	



Civil Engineering - Transport Planning - Flood Risk

West Sussex, RH15 9RD

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