

Workdry Ltd
New Headquarters Office Building
Bournemouth Road, Chandlers Ford

Drainage Design Statement

Date: November 2025
Project No. 304846
Report Reference: 304846-SWH-ZZ-ZZ-T-C-0002
Revision: 01

Prepared by:



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	Structural Engineering
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	Traffic and Transport
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	Highway Engineering
	Event Engineering

Issue and Amendment Record:

Revision	Comment/Amendment	Prepared	Reviewed	Approved	Date
P01	First Issue	TK	TK	TK	03.11.25

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1.0 Introduction

This document provides a surface water and foul drainage scheme to support the planning application ref: F/25/99876 for a proposed development at 32-34 Bournemouth Road, Chandler's Ford, Eastleigh, Hampshire, SO53 3ZL.

The application site is a three-storey headquarters office building situated to the south of Bournemouth Road. The proposal is a replacement office building with associated landscaping and car parking following demolition of existing office. A location plan is provided in Appendix A. Proposed Site Plans in **Appendix B**.

Local Planning policy is contained within the Eastleigh Borough Council Local Plan (2016 – 2032) dated April 2022. Drainage is covered in DM6 sustainable drainage systems (SuDs) and watercourse management. It summaries *"All development will be required to ensure that there is no net increase in surface water run off. Priority will be given to incorporating SUDs (Sustainable Drainage Systems) to manage surface water drainage, unless it can be demonstrated that SUDs are not appropriate. Where SUDs are provided, arrangements must be put in place for their whole life management and maintenance"*.

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2.0 Existing Conditions

The existing office building is located in the northeast corner of Selwood Ltd, 32-36 Bournemouth Road, Chandlers Ford, Hampshire, SO53 3ZL. Centred on grid reference SU 43266 203367, and the overall redline boundary site area is approximately 0.543 ha in size. location plan is given in **Appendix A**.

The office building to be demolished is currently unused, with the exception of the site team who will be relocated into temporary cabins.

A topographic survey was undertaken by Lucion Survey Ltd dated July 2025. The survey shows the existing building has a floor level of 34.11m AOD. The site levels adjacent to the building range between 33.94m-35.10m AOD with levels falling to the south and the north. To the north of the site is a ramp connecting the site to the existing site access which shall remain. There is a high retaining wall feature to the south of the existing building which will remain. A copy of the survey is enclosed in **Appendix C**.

The existing site drainage has been CCTV surveyed by Lucion Survey Ltd dated July 2025. The results are summarised for the foul and surface water drainage in **Appendix D**.

The existing office building drains into a separate network to the remaining site due to the sites levels. The existing roof drainage discharges via downpipes into an existing soakaway to the south and a catchpit to the north. The existing foul runs connect into a Southern Water sewer which runs along the southern boundary and discharges into Bournemouth Road.

The British Geological Survey Records for the site indicate that the site is likely to be underlain bedrock of the Wittering Formation comprising Sand, silt and clay at depth.

An extensive site investigation was undertaken by Southern Testing in 2014 (Ref: J11960), this report covered the whole of the Selwood Ltd site. The report indicated that the majority of the site was not conducive to the use of soakaways due to the low permeability of the composite soil make up and potential perched water between concrete surfacing and layers of made ground. However, a successful BRE365 test was undertaken at TP1 which is located in the northeast corner of the site within the proposed site boundary. These tests indicate fair infiltration rates. However, the test was undertaken close to an oil tank which may cause some localised contamination, this has been identified on a subsequent phase 1 desk top study undertaken by Lucion Ground Engineering Limited (Ref: 132887). With this in mind infiltration may not be a viable option in this part of the site but it is recommended that a further phase 2 site intrusive test is

undertaken in the demolition phase of the development to confirm the extent of any contamination and any remedial works that are required.

Due to the close proximity of the Southern Water foul sewer network close to the proposed office building, percolation testing has not been undertaken.

The site is underlain by a Secondary A bedrock aquifer and is not within a Source Protection Zone.

3.0 Drainage Design

Surface Water Drainage

- 3.1.1 Due to the redevelopment of the site, a drainage strategy with attenuation storage is required to reduce downstream flood risks.
- 3.1.2 Based on the drainage hierarchy stated under Government Guidance (Flood Risk and Coastal Change), the preferred method for disposal of surface water from the new development is infiltration into the ground.
- 3.1.3 Soakaway testing has revealed infiltration drainage is unviable due to potential contamination in the ground based on an old existing oil tank. The existing site surface water drainage network discharges to a watercourse ditch to the north of the site, our proposed surface water network connects into this existing network
- 3.1.4 The proposed pre-construction greenfield rate is calculated to be 5l/s/ha. Given our drainage strategy is confined to the roof and adjacent parking area of the office is 3800m², the proposed Qbar run off rate is 2.0l/s, see calculations in **Appendix E**.
- 3.1.5 SuDs features have been provided with the use of permeable tarmac surfacing to the adjacent car park area which percolates to a lined open graded stone sub-base, with a storage volume of 66m³, the flow from this area is via an orifice plate. The roof of the proposed office flows into an attenuation tank which has a storage volume of 22.8m³ and is has a hydro brake flow control, see drainage calculations in Appendix F and proposed drainage layout drawing in **Appendix G**.
- 3.1.6 Proposed soft landscaping area soakaway naturally into the ground.
- 3.1.7 The proposed lower parking area drainage is unaffected by the works proposed for this planning application and have been discounted from any of the drainage calculations.
- 3.1.8 To ensure drainage elements function correctly, maintenance of drainage should be covered by a suitable management company and subject to a regular maintenance regime. Maintenance of SuDS to be in accordance with CIRIA SuDS manual C753 where specific intervals are advised within the document as per element type. A summary of these is present in **Appendix H**.

Foul Drainage Design

- 3.1.9 The Southern Water asset plans for the area surrounding the site, this indicates existing chambers (2301 and 2302) are located to the south of the existing site.
- 3.1.10 Pre-application discussions were held with Southern Water in relation to this foul sewer route due its current condition and location against the proposed building. Due to there being a 6m wide (3m either side of the sewer line) easement on this foul sewer line the

proposed building was shifted north so it was outside of this line rather than proposing a diversion.

- 3.1.11 The proposed building has a capacity of 200 staff and 80 visitors. The system will be designed in accordance with the guidance document: British Flows and Loads. The following table provides the required loadings:

200 staff + 80 Visitors – Total people = 280.

Table of Loadings for Sewage Treatment Systems			
Per person / activity / day (unless otherwise specified)	FLOW	BOD	Ammonia as N
DOMESTIC DWELLINGS (Grams)	(Litres)	(Grams)	
Standard residential	150	60	8
Mobile home type caravans with full services	150	60	8
INDUSTRIAL			
Office / Factory without canteen	50	25	5
Office / Factory with canteen	100	38	5
Open industrial site, e.g. construction, quarry, without canteen	60	25	5
*Full-time Day Staff	90	38	5
*Part-time Staff (4 hr shift)	45	25	3

Office/factory without canteen = 50l/day/person x 200 = **10,000 L**

Visitors = 10l/day/person x 80 = **800 L**

Maximum Total = **10,800L/day**

PE equivalent = 150l/day/person

Maximum total PE = 10,800/150 = **72PE**

User	No	Flow (l/day)		BOD		Ammonia	
		Per P	Total	Per P	Total	Per P	Total
Full time	200	50	10,000	25	5,000	5	1,000
Visitor	80	10	800	12	960	2.5	200
Total	280		10,800		5,960		1,200
PE			72		100		144

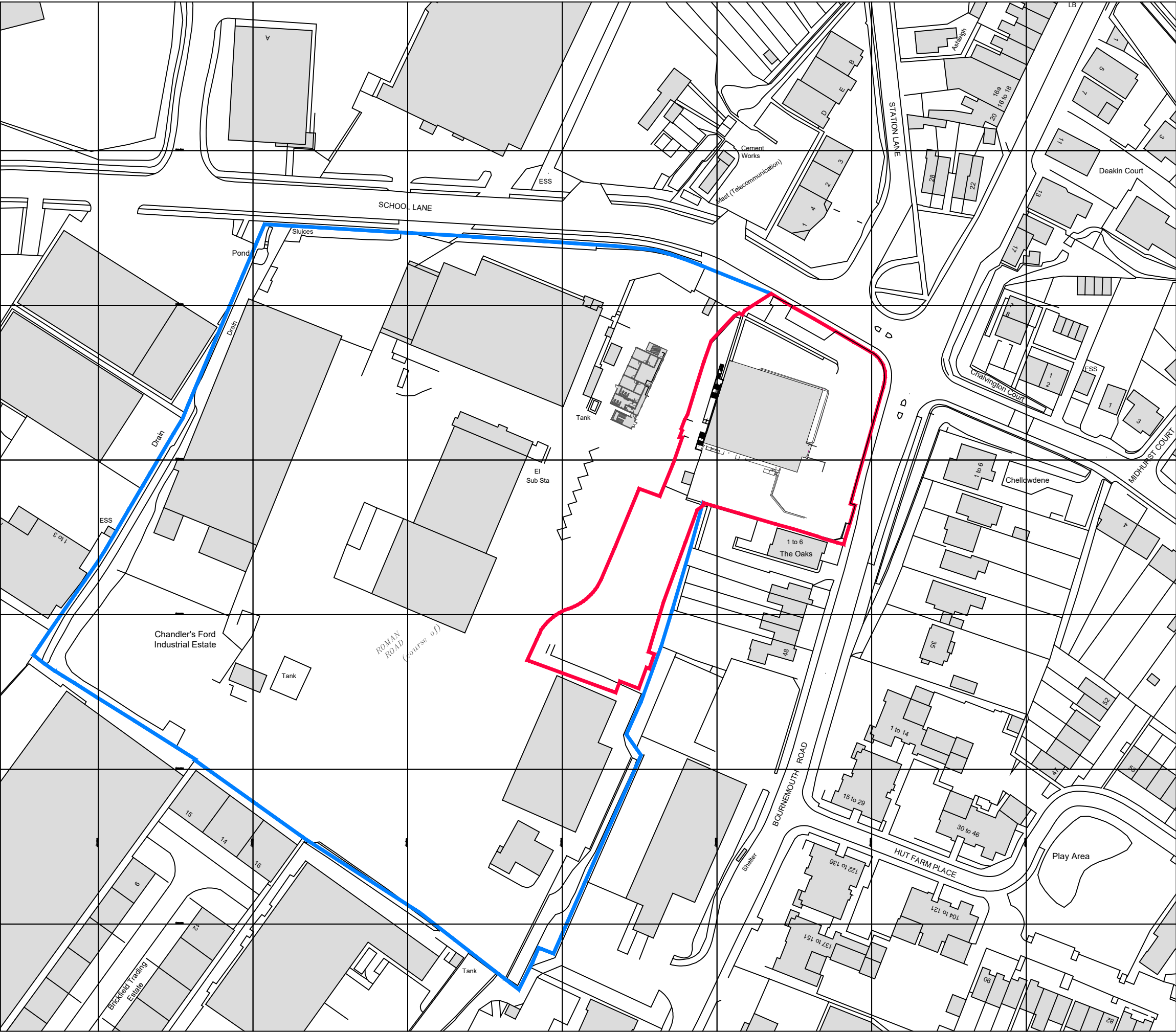
The daily flow rate = 0.125 l/s/day

4.0 Appendices

- A. Site Location Plan**
- B. Proposed Site Layout**
- C. Topographic and Utility Survey**
- D. CCTV Report**
- E. Greenfield Runoff Rate Calculation**
- F. Surface Water Drainage Design Calculations**
- G. Proposed Drainage Layout**
- H. SW Drainage Maintenance Schedule**

Appendix A

Site Location Plan



Notes

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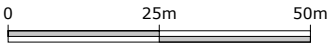
Ordnance Survey Data

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Site and plot boundaries are shown indicatively only and subject to confirmation.

Key

- Site Boundary
- Site Ownership Boundary



G1	First Issue	21-07-25	EO	SS
Rev	Comments	Date	Dr	Ch

LOCATION PLAN

WKDRY- BSL- ZZ- XX -DR -A -1001 -G1
WORKDRY HQ OFFICE DEVELOPMENT 25046
BOURNEMOUTH ROAD, CHANDLERS FORD 1:1250 @ A3
WORKDRY INTERNATIONAL PLANNING

Suite E, Ferry House
Canute Road
Southampton
Hampshire
SO14 3FJ

023 8063 1432
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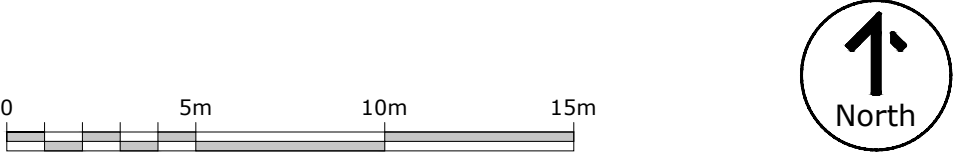
Boyle & Summers

Appendix B

Proposed Site Layout



- Notes
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1. Automated barrier
 2. Controlled by existing neighbouring retained security hut
 3. 3no. Proposed flag poles
 3. Proposed boundary wall with matching facing brickwork finish
 4. Realigned access road
 5. Replacement boundary wall with matching facing brickwork finish
 6. Christmas tree location (seasonal)
 7. Proposed pedestrian (accessible) entrance
 8. Proposed higher retaining wall
 - Matching facing brickwork and stainless steel balustrade above
 9. 9no. single bollard style Electrical Vehicle (Ei) charging points
 10. Managed site gates, closed after hours for security
 11. Landscape margin to building frontage to provide buffer to opening doors and projecting features
 12. Security fence and personnel / maintenance gates
 13. Amenity area
 - Proposed levels in this area consistent with existing levels
 14. Existing boundary wall faced with matching brickwork
 - Existing openings blocked up where shown
 - New opening to proposed steps / lift
 - Stainless steel balustrade above to match elsewhere
 15. Wire ways for future 9no. double EV charging spaces (wii)
 16. 4no. double bollard style Electrical Vehicle (Eii) charging points
 17. Existing raised plinth(s) reduced / removed with southern part retained
 18. Relocate existing container to suit re-faced wall
 19. Existing enclosure re-faced with matching brickwork
 20. Replacement steps and platform lift to mitigate level changes
 - Platform lift suitable for personnel and light goods use
 21. Proposed lower retaining / planter wall(s)
 - Facing brickwork to match elsewhere
 22. Re-aligned demarcated pedestrian route with stainless steel bollard protection



G2	Updated Planning Issue	29-09-25	SS	SS
G1	Planning Issue	21-07-25	EO	SS
Rev	Comments	Date	Dr	Ch

Proposed Site Plan

WKDRY- BSL - ZZ - XX - DR - A - 1006 - G2

Workdry HQ Office Redevelopment 25046

Bournemouth Road, Chandlers Ford 1:200 @ A1

Workdry International PLANNING

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Hampshire
SO14 3FJ

023 8063 1432

boyleandsummers.co.uk

Boyle & Summers

Appendix C

Topographic and Utility Survey

NOTES

[illegible]

TOPOGRAPHICAL SURVEY/UTILITY KEY :-

- a) - height
 b) - top ground
 c) - assumed noise
 d) - assumed noise
 e) - assumed noise
 f) - assumed noise
 g) - assumed noise
 h) - assumed noise
 i) - assumed noise
 j) - assumed noise
 k) - assumed noise
 l) - assumed noise
 m) - assumed noise
 n) - assumed noise
 o) - assumed noise
 p) - assumed noise
 q) - assumed noise
 r) - assumed noise
 s) - assumed noise
 t) - assumed noise
 u) - assumed noise
 v) - assumed noise
 w) - assumed noise
 x) - assumed noise
 y) - assumed noise
 z) - assumed noise

STATION		LATINGS		NORTHINGS		LEVEL	
ST01	443259.63	120368.00	35.53				
ST02	443261.31	120362.64	35.18				
ST03	443262.196	120340.91	33.63				
ST04	443262.7	120367.80	35.80				
ST05	443267.865	120388.94	33.60				
ST06	443266.110	120411.284	32.81				
ST07	443251.268	120397.084	33.81				
ST08	443265.912	120374.664	34.86				

UTILITY SURVEY KEY :

- | | |
|---|------------------|
|  | HATCHED AREA |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |
|  | ROUNDED SQUARE |
|  | CONTOURED SQUARE |

DISCLAIMER

[illegible]

UTILITY NOTES

GAS HAS BEEN TRACED IN PARTS. SMALL AMOUNT HAS BEEN TAKEN FROM RECORD.
UNABLE TO LOCATE WATER TO BUILDING.

CATY DOWN SCHOOL. LOANE HAS BEEN TAKEN FROM RECORD. NO EVIDENCE OF THIS ON SITE



Tel: 01926 810811 Email: mail@luciongroup.com Website: www.luciongroup.com

Client **DAVE CAGE.**

Project WORKORY, SCHOOL LANE, CHANDLERS FORD, EASTLEIGH, SO53 4DG.

Title TOPOGRAPHICAL & UTILITY SURVEY.

Date	Revisions
JULY 2025.	

Scale 1:2009A1

Run No. 470613 / 4

1000 JOURNAL OF CLIMATE

Checked J.S.

UTILITY / CCTV DRAINAGE SURVEYS & REMEDIAL DRAINAGE REPAIRS

THE SURVEY
US EN ISO
9001:2015
Adopt

SYSTEMS



Gold Member
 Accredited Contractor
 CHAS.co.uk

Appendix D
CCTV Report



Project

Project Name: 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx
Project Description: WinCan Import in Standard
Project Number: 684081
Project Date: 09/07/2025



Portakabin[®]

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Section Item 9: UNK06 > MH03 BR1 (UNK06X)	24
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Section Item 11: UNK08 > MH03 BR3 (UNK08X)	28
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Project Information

Project Name	Project Number	Project Date
684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	684081	09/07/2025

Client

Company: Portakabin Limited
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Town or City: Huntington
County: Yorkshire
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Contractor

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County: Warwickshire
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Phone: 07974187581
Mobile: 07974187581
Email: sam.holden@luciongroup.com



Project Summary

Project Name 684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	UNK01X	UNK01	MH01 US	.	Eastleigh	F	VC	Circular 100mm	1.58 m
2	SEC	FW2301 DSX	FW2301 DS	MH OSA 02	.	Eastleigh	F	VC	Circular 225mm	34.31 m
3	SEC	MH OSA 01X	MH OSA 01	FW2301 US	.	Eastleigh	F	VC	Circular 225mm	17.61 m
4	SEC	UNK02X	UNK02	MH01 BR1	.	Eastleigh	F	VC	Circular 100mm	2.23 m
5	SEC	MH01 DSX	MH01 DS	UNK03	.	Eastleigh	F	VC	Circular 100mm	3.91 m
6	SEC	UNK03X	UNK03	MH02 BR1	.	Eastleigh	F	PVC	Circular 100mm	2.04 m
7	SEC	MH02 DSX	MH02 DS	UNK04	.	Eastleigh	F	VC	Circular 100mm	10.82 m
8	SEC	UNK05X	UNK05	MH03 US	.	Eastleigh	F	VC		2.55 m
9	SEC	UNK06X	UNK06	MH03 BR1	.	Eastleigh	F	VC	Circular 100mm	0.85 m
10	SEC	UNK07X	UNK07	MH03 BR2	.	Eastleigh	F	VC	Circular 100mm	0.18 m
11	SEC	UNK08X	UNK08	MH03 BR3	.	Eastleigh	F	VC	Circular 100mm	0.16 m
12	SEC	UNK09X	UNK09	MH03 BR4	.	Eastleigh	F	VC	Circular 100mm	1.27 m
13	SEC	MH03 DSX	MH03 DS	UNK10	.	Eastleigh	F	VC	Circular 100mm	4.59 m
14	SEC	UNK11X	UNK11	MH04 BR1	.	Eastleigh	S	PVC	Circular 150mm	10.54 m
15	SEC	UNK12X	UNK12	MH04 US	.	Eastleigh	S	VC	Circular 150mm	19.02 m
16	SEC	MH04 DSX	MH04 DS	UNK13	.	Eastleigh	S	VC	Circular 150mm	1.73 m
18	SEC	UNK14X	UNK14	MH05 BR1	.	Eastleigh	F	VC	Circular 100mm	1.49 m
19	SEC	UNK15X	UNK15	MH05 BR2	.	Eastleigh	F	VC	Circular 100mm	1.58 m
20	SEC	UNK16X	UNK16	MH05 BR3	.	Eastleigh	F	VC	Circular 100mm	0.64 m
21	SEC	UNK17X	UNK17	MH05 US	.	Eastleigh	F	VC	Circular 100mm	16.05 m
22	SEC	MH06 DSX	MH06 DS	UNK19	.	Eastleigh	F	VC	Circular 100mm	17.89 m
23	SEC	UNK19X	UNK19	MH06 US	.	Eastleigh	F	VC	Circular 100mm	0.71 m
24	SEC	UNK20X	UNK20	MH06 BR1	.	Eastleigh	F	VC	Circular 100mm	5.40 m
25	SEC	UNK21X	UNK21	MH06 BR3	.	Eastleigh	F	VC	Circular 100mm	1.96 m
26	SEC	UNK22X	UNK22	MH06 BR4	.	Eastleigh	F	VC	Circular 100mm	1.01 m
Total:										160.12 m

Project Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	UNK01X	UNK01			0.000 m	MH01 US			0.580 m
2	FW2301 DSX	FW2301 DS			3.800 m	MH OSA 02			0.000 m
3	MH OSA 01X	MH OSA 01			0.000 m	FW2301 US			3.760 m
4	UNK02X	UNK02			0.000 m	MH01 BR1			0.500 m
5	MH01 DSX	MH01 DS			0.600 m	UNK03			0.000 m
6	UNK03X	UNK03			0.000 m	MH02 BR1			0.620 m
7	MH02 DSX	MH02 DS			0.770 m	UNK04			0.000 m
8	UNK05X	UNK05			0.000 m	MH03 US			0.000 m
9	UNK06X	UNK06			0.000 m	MH03 BR1			1.120 m
10	UNK07X	UNK07			0.000 m	MH03 BR2			0.730 m
11	UNK08X	UNK08			0.000 m	MH03 BR3			1.180 m
12	UNK09X	UNK09			0.000 m	MH03 BR4			1.830 m
13	MH03 DSX	MH03 DS			2.080 m	UNK10			0.000 m
14	UNK11X	UNK11			0.000 m	MH04 BR1			0.000 m
15	UNK12X	UNK12			0.000 m	MH04 US			0.920 m
16	MH04 DSX	MH04 DS			0.940 m	UNK13			0.000 m
18	UNK14X	UNK14			0.000 m	MH05 BR1			0.360 m
19	UNK15X	UNK15			0.000 m	MH05 BR2			0.360 m
20	UNK16X	UNK16			0.000 m	MH05 BR3			0.960 m
21	UNK17X	UNK17			0.000 m	MH05 US			0.960 m
22	MH06 DSX	MH06 DS			0.930 m	UNK19			0.000 m
23	UNK19X	UNK19			0.000 m	MH06 US			0.880 m
24	UNK20X	UNK20			0.000 m	MH06 BR1			0.790 m
25	UNK21X	UNK21			0.000 m	MH06 BR3			0.820 m
26	UNK22X	UNK22			0.000 m	MH06 BR4			0.800 m

Project Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Pipe Summary by Profile

Profile	Total Length	No. Pipes
	2.55 m	
Unknown =	2.55 m	1
Circular 100mm	1.58 m	
Circular 100mm	2.23 m	
Circular 100mm	3.91 m	
Circular 100mm	2.04 m	
Circular 100mm	10.82 m	
Circular 100mm	0.85 m	
Circular 100mm	0.18 m	
Circular 100mm	0.16 m	
Circular 100mm	1.27 m	
Circular 100mm	4.59 m	
Circular 100mm	1.49 m	
Circular 100mm	1.58 m	
Circular 100mm	0.64 m	
Circular 100mm	16.05 m	
Circular 100mm	17.89 m	
Circular 100mm	0.71 m	
Circular 100mm	5.40 m	
Circular 100mm	1.96 m	
Circular 100mm	1.01 m	
Circular 100mm =	74.36 m	19
Circular 150mm	10.54 m	
Circular 150mm	19.02 m	
Circular 150mm	1.73 m	
Circular 150mm =	31.29 m	3
Circular 225mm	34.31 m	
Circular 225mm	17.61 m	
Circular 225mm =	51.92 m	2
Total =	160.12 m	25

Project Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	UNK01	MH01 US	US	A.B/M.F	07/07/2025	22:00	1	3	BRF	1.58 m
2	1	FW2301 DS	MH OSA 02	DS	A.B/M.F	10/07/2025	22:00	4	3	MHF	34.31 m
3	1	MH OSA 01	FW2301 US	US	A.B/M.F	10/07/2025	21:00	2	5	SA, CAMERA UNABLE TO PASS ROOT MASS	17.61 m
4	1	UNK02	MH01 BR1	US	A.B/M.F	07/07/2025	22:00	1	4	BRF	2.23 m
5	1	MH01 DS	UNK03	DS	A.B/M.F	07/07/2025	21:00	1	3	MHF	3.91 m
7	1	MH02 DS	UNK04	DS	A.B/M.F	07/07/2025	22:00	1	4	SA, UNABLE TO PASS DISPLACEMENT	10.82 m
8	1	UNK05	MH03 US	US	A.B/M.F	08/07/2025	0:00	2	5	SA, CAMERA UNABLE TO TRAVEL FURTHER	2.55 m
11	1	UNK08	MH03 BR3	US	A.B/M.F	07/07/2025	23:00	1	5	SA, CAMERA UNABLE TO PASS	0.16 m
12	1	UNK09	MH03 BR4	US	A.B/M.F	07/07/2025	23:00	1	3	SA, CAMERA UNABLE TO PASS BEND	1.27 m
13	1	MH03 DS	UNK10	DS	A.B/M.F	07/07/2025	23:00	1	1	BRF	4.59 m
14	1	UNK11	MH04 BR1	US	A.B/M.F	07/07/2025	23:00	1	1	BRF	10.54 m
15	1	UNK12	MH04 US	US	A.B/M.F	07/07/2025	22:00	1	1	BRF	19.02 m
16	1	MH04 DS	UNK13	DS	A.B/M.F	07/07/2025	23:00	1	1	MHF	1.73 m
18	1	UNK14	MH05 BR1	US	A.B/M.F	07/07/2025	23:00	1	1	BRF	1.49 m
19	1	UNK15	MH05 BR2	US	A.B/M.F	07/07/2025	23:00	1	1	BRF, UNABLE TO PASS BASE BEND	1.58 m
21	1	UNK17	MH05 US	US	A.B/M.F	07/07/2025	23:00	1	4	SA, UNABLE TO PASS DEBRIS	16.05 m
22	1	MH06 DS	UNK19	DS	A.B/M.F	07/07/2025	23:00	2	4	MHF	17.89 m
23	1	UNK19	MH06 US	US	A.B/M.F	07/07/2025	22:00	1	5	SA, UNABLE TO PASS DEBRIS	0.71 m
24	1	UNK20	MH06 BR1	US	A.B/M.F	07/07/2025	22:00	1	1	MHF, IN FIRE ESCAPE NO ACCESS	5.40 m
25	1	UNK21	MH06 BR3	US	A.B/M.F	07/07/2025	22:00	1	1	SA, CAPPED OFF	1.96 m
26	1	UNK22	MH06 BR4	US	A.B/M.F	07/07/2025	23:00	2	4	SA, CAPPED OFF	1.01 m
Total:											156.41 m

Inspection Summary by Profile

Profile	Total Length	No. Inspections
	2.55 m	
Unknown	2.55 m	1
Circular 100mm	1.58 m	

Project Summary

Project Name 684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Profile	Total Length	No. Inspections
Circular 100mm	2.23 m	
Circular 100mm	3.91 m	
Circular 100mm	10.82 m	
Circular 100mm	0.16 m	
Circular 100mm	1.27 m	
Circular 100mm	4.59 m	
Circular 100mm	1.49 m	
Circular 100mm	1.58 m	
Circular 100mm	16.05 m	
Circular 100mm	17.89 m	
Circular 100mm	0.71 m	
Circular 100mm	5.40 m	
Circular 100mm	1.96 m	
Circular 100mm	1.01 m	
Circular 100mm =	70.65 m	15
Circular 150mm	10.54 m	
Circular 150mm	19.02 m	
Circular 150mm	1.73 m	
Circular 150mm =	31.29 m	3
Circular 225mm	34.31 m	
Circular 225mm	17.61 m	
Circular 225mm =	51.92 m	2
Total =	156.41 m	21

Defect Summary

Defect Summary				CCTV Drainage Survey Observation Count																				
				General				Structural Condition								Service Condition						Misc		
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviations
1	1	UNK01	MH01 US	1.6											1								1	1
2	1	FW2301 DS	MH OSA 02	34.3	1			2		1					2		1						1	
3	1	MH OSA 01	FW2301 US	17.6	7	1		1									8						1	
4	1	UNK02	MH01 BR1	2.2	1										1								1	3

Project Summary

Project Name 684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
5	1	MH01 DS	UNK03	3.9																2			1	
7	1	MH02 DS	UNK04	10.8	2	1									1					3			1	
8	1	UNK05	MH03 US	2.6	3	1		1							2					2			1	
11	1	UNK08	MH03 BR3	0.2	1	1												1					1	
12	1	UNK09	MH03 BR4	1.3		1									1								1	1
13	1	MH03 DS	UNK10	4.6																			1	1
14	1	UNK11	MH04 BR1	10.5																			1	1
15	1	UNK12	MH04 US	19.0																			1	1
16	1	MH04 DS	UNK13	1.7																			1	
18	1	UNK14	MH05 BR1	1.5																			1	
19	1	UNK15	MH05 BR2	1.6																			1	1
21	1	UNK17	MH05 US	16.1	1	1																	1	
22	1	MH06 DS	UNK19	17.9	2			1							4								1	2
23	1	UNK19	MH06 US	0.7	1	1																	1	
24	1	UNK20	MH06 BR1	5.4																			1	
25	1	UNK21	MH06 BR3	2.0		1																	1	1
26	1	UNK22	MH06 BR4	1.0		1		1							1								1	
Total:				156.4	19	9		6									9		1	7			21	12

Cleaning Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	UNK01X	UNK01	MH01 US	.	Eastleigh	F	VC	Circular 100mm	1.58 m
2	SEC	FW2301 DSX	FW2301 DS	MH OSA 02	.	Eastleigh	F	VC	Circular 225mm	34.31 m
3	SEC	MH OSA 01X	MH OSA 01	FW2301 US	.	Eastleigh	F	VC	Circular 225mm	17.61 m
4	SEC	UNK02X	UNK02	MH01 BR1	.	Eastleigh	F	VC	Circular 100mm	2.23 m
5	SEC	MH01 DSX	MH01 DS	UNK03	.	Eastleigh	F	VC	Circular 100mm	3.91 m
6	SEC	UNK03X	UNK03	MH02 BR1	.	Eastleigh	F	PVC	Circular 100mm	2.04 m
7	SEC	MH02 DSX	MH02 DS	UNK04	.	Eastleigh	F	VC	Circular 100mm	10.82 m
8	SEC	UNK05X	UNK05	MH03 US	.	Eastleigh	F	VC		2.55 m
9	SEC	UNK06X	UNK06	MH03 BR1	.	Eastleigh	F	VC	Circular 100mm	0.85 m
10	SEC	UNK07X	UNK07	MH03 BR2	.	Eastleigh	F	VC	Circular 100mm	0.18 m
11	SEC	UNK08X	UNK08	MH03 BR3	.	Eastleigh	F	VC	Circular 100mm	0.16 m
12	SEC	UNK09X	UNK09	MH03 BR4	.	Eastleigh	F	VC	Circular 100mm	1.27 m
13	SEC	MH03 DSX	MH03 DS	UNK10	.	Eastleigh	F	VC	Circular 100mm	4.59 m
14	SEC	UNK11X	UNK11	MH04 BR1	.	Eastleigh	S	PVC	Circular 150mm	10.54 m
15	SEC	UNK12X	UNK12	MH04 US	.	Eastleigh	S	VC	Circular 150mm	19.02 m
16	SEC	MH04 DSX	MH04 DS	UNK13	.	Eastleigh	S	VC	Circular 150mm	1.73 m
18	SEC	UNK14X	UNK14	MH05 BR1	.	Eastleigh	F	VC	Circular 100mm	1.49 m
19	SEC	UNK15X	UNK15	MH05 BR2	.	Eastleigh	F	VC	Circular 100mm	1.58 m
20	SEC	UNK16X	UNK16	MH05 BR3	.	Eastleigh	F	VC	Circular 100mm	0.64 m
21	SEC	UNK17X	UNK17	MH05 US	.	Eastleigh	F	VC	Circular 100mm	16.05 m
22	SEC	MH06 DSX	MH06 DS	UNK19	.	Eastleigh	F	VC	Circular 100mm	17.89 m
23	SEC	UNK19X	UNK19	MH06 US	.	Eastleigh	F	VC	Circular 100mm	0.71 m
24	SEC	UNK20X	UNK20	MH06 BR1	.	Eastleigh	F	VC	Circular 100mm	5.40 m
25	SEC	UNK21X	UNK21	MH06 BR3	.	Eastleigh	F	VC	Circular 100mm	1.96 m
26	SEC	UNK22X	UNK22	MH06 BR4	.	Eastleigh	F	VC	Circular 100mm	1.01 m
Total:										160.12 m

Cleaning Summary

Project Name 684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Pipe Summary by Profile		
Profile	Total Length	No. Pipes
	2.55 m	
Unknown =	2.55 m	1
Circular 100mm	1.58 m	
Circular 100mm	2.23 m	
Circular 100mm	3.91 m	
Circular 100mm	2.04 m	
Circular 100mm	10.82 m	
Circular 100mm	0.85 m	
Circular 100mm	0.18 m	
Circular 100mm	0.16 m	
Circular 100mm	1.27 m	
Circular 100mm	4.59 m	
Circular 100mm	1.49 m	
Circular 100mm	1.58 m	
Circular 100mm	0.64 m	
Circular 100mm	16.05 m	
Circular 100mm	17.89 m	
Circular 100mm	0.71 m	
Circular 100mm	5.40 m	
Circular 100mm	1.96 m	
Circular 100mm	1.01 m	
Circular 100mm =	74.36 m	19
Circular 150mm	10.54 m	
Circular 150mm	19.02 m	
Circular 150mm	1.73 m	
Circular 150mm =	31.29 m	3
Circular 225mm	34.31 m	
Circular 225mm	17.61 m	
Circular 225mm =	51.92 m	2
Total =	160.12 m	25

Cleaning Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Cleaning Summary

Pipe No.	Cln. No.	Dir.	Operator	Cln. Date	Cln. Time	Method	Contamination	Scale	No. Clns	Complete	Comments	Cln. Length
1	1	US	A.B/M.F	07/07/2025	22:00	N				Yes		1.58 m
2	1	DS	A.B/M.F	10/07/2025	22:00	N				Yes		34.31 m
3	1	US	A.B/M.F	10/07/2025	21:00	N				No		17.61 m
4	1	US	A.B/M.F	07/07/2025	22:00	N				Yes		2.23 m
5	1	DS	A.B/M.F	07/07/2025	21:00	N				Yes		3.91 m
7	1	DS	A.B/M.F	07/07/2025	22:00	N				No		10.82 m
8	1	US	A.B/M.F	08/07/2025	0:00	N				No		2.55 m
11	1	US	A.B/M.F	07/07/2025	23:00	N				No		0.16 m
12	1	US	A.B/M.F	07/07/2025	23:00	N				No		1.27 m
13	1	DS	A.B/M.F	07/07/2025	23:00	N				Yes		4.59 m
14	1	US	A.B/M.F	07/07/2025	23:00	N				Yes		10.54 m
15	1	US	A.B/M.F	07/07/2025	22:00	N				Yes		19.02 m
16	1	DS	A.B/M.F	07/07/2025	23:00	N				Yes		1.73 m
18	1	US	A.B/M.F	07/07/2025	23:00	N				Yes		1.49 m
19	1	US	A.B/M.F	07/07/2025	23:00	N				Yes		1.58 m
21	1	US	A.B/M.F	07/07/2025	23:00	N				No		16.05 m
22	1	DS	A.B/M.F	07/07/2025	23:00	N				Yes		17.89 m
23	1	US	A.B/M.F	07/07/2025	22:00	N				No		0.71 m
24	1	US	A.B/M.F	07/07/2025	22:00	N				Yes		5.40 m
25	1	US	A.B/M.F	07/07/2025	22:00	N				No		1.96 m
26	1	US	A.B/M.F	07/07/2025	23:00	N				No		1.01 m
Total:												156.41 m

Cleaning Summary by Profile

Profile	Total Length	No. Cleans
	2.55 m	
Unknown	2.55 m	1
Circular 100mm	1.58 m	

Cleaning Summary

Project Name	Project Number	Project Date
684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	684081	09/07/2025

Profile		Total Length	No. Cleans
Circular 100mm		2.23 m	
Circular 100mm		3.91 m	
Circular 100mm		10.82 m	
Circular 100mm		0.16 m	
Circular 100mm		1.27 m	
Circular 100mm		4.59 m	
Circular 100mm		1.49 m	
Circular 100mm		1.58 m	
Circular 100mm		16.05 m	
Circular 100mm		17.89 m	
Circular 100mm		0.71 m	
Circular 100mm		5.40 m	
Circular 100mm		1.96 m	
Circular 100mm		1.01 m	
Circular 100mm	=	70.65 m	15
Circular 150mm		10.54 m	
Circular 150mm		19.02 m	
Circular 150mm		1.73 m	
Circular 150mm	=	31.29 m	3
Circular 225mm		34.31 m	
Circular 225mm		17.61 m	
Circular 225mm	=	51.92 m	2
Total	=	156.41 m	21

Defect Grade Description (Section)

Project Name		Project Number	Project Date
684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx		684081	09/07/2025
1:	Brick: Minor structural defects. Other: Minor structural defects, i.e. open or displaced joints without additional characteristics. Acceptable structural condition.		
2:	Brick: Circumferential cracking. Single longitudinal crack. Surface mortar loss (depth missing < 15 mm). Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). Other: Circumferential cracking. Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). Minimal collapse likelihood in the short term but potential for further deterioration.		
3:	Brick: Total mortar loss (depth missing > 50 mm) without other defects. More than one longitudinal crack (at a single location). Multiple cracking. Single bricks displaced. Deformation < 5%, no fracture and only moderate mortar loss. Surface damage - spalling medium (large areas of chipped brick). Surface damage - wear medium (entire surface of brick is missing). Other: Fracture with no deformation or deformation < 5%. Longitudinal cracking or multiple cracking. Minor loss of level. Severe joint defects i.e. Surface damage - spalling medium. Surface damage - wear medium. Collapse unlikely in the near future but further deterioration likely.		
4:	Brick: Total mortar loss (depth missing > 50mm) with deformation > 10%; deformation up to 10% and fractured; displaced or hanging brickwork; small number of missing bricks; dropped invert (drop > 20mm); moderate loss of level; surface damage - large spalling (entire surface of brick is missing); surface damage - large wear (entire surface of brick is missing). Other: Broken; deformation up to 10% and broken; fracture with deformation 5-10%; multiple fractures; serious loss of level; serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter); surface damage - entire area of pipe surface is missing or severely worn. Collapse likely in the foreseeable future.		
5:	Brick: Already collapsed; missing Invert; deformation > 10% and fractured; displaced or hanging brickwork and deformation < 10%; extensive areas of missing brickwork. Other: Already collapsed; deformation > 10% and broken; extensive areas of pipe fabric missing; fractures with deformation > 10% Collapsed or collapse imminent.		

Section Profile - 07/07/2025 - UNK01X

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Circular, 100 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	UNK01	MH01 US	07/07/2025	.	Vitrified clay	1.58 m	1.58 m
4	UNK02	MH01 BR1	07/07/2025	.	Vitrified clay	2.23 m	2.23 m
5	MH01 DS	UNK03	07/07/2025	.	Vitrified clay	3.91 m	3.91 m
7	MH02 DS	UNK04	07/07/2025	.	Vitrified clay	10.82 m	10.82 m
8	UNK05	MH03 US	08/07/2025	.	Vitrified clay	2.55 m	2.55 m
11	UNK08	MH03 BR3	07/07/2025	.	Vitrified clay	0.16 m	0.16 m
12	UNK09	MH03 BR4	07/07/2025	.	Vitrified clay	1.27 m	1.27 m
13	MH03 DS	UNK10	07/07/2025	.	Vitrified clay	4.59 m	4.59 m
17	MH05 DS	UNK13	07/07/2025	.	Vitrified clay	0.00 m	0.00 m
18	UNK14	MH05 BR1	07/07/2025	.	Vitrified clay	1.49 m	1.49 m
19	UNK15	MH05 BR2	07/07/2025	.	Vitrified clay	1.58 m	1.58 m
21	UNK17	MH05 US	07/07/2025	.	Vitrified clay	16.05 m	16.05 m
23	MH06 DS	UNK19	07/07/2025	.	Vitrified clay	17.89 m	17.89 m
24	UNK19	MH06 US	07/07/2025	.	Vitrified clay	0.71 m	0.71 m
25	UNK20	MH06 BR1	07/07/2025	.	Vitrified clay	5.40 m	5.40 m
26	UNK21	MH06 BR3	07/07/2025	.	Vitrified clay	1.96 m	1.96 m
27	UNK22	MH06 BR4	07/07/2025	.	Vitrified clay	1.01 m	1.01 m

Total: 17 Inspections x Circular 100 mm, 0 mm = 73.20 m Total Length and 73.20 m Inspected Length

Circular, 150 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
14	UNK11	MH04 BR1	07/07/2025	.	Polyvinyl chloride	10.54 m	10.54 m
15	UNK12	MH04 US	07/07/2025	.	Vitrified clay	19.02 m	19.02 m
16	MH04 DS	UNK13	07/07/2025	.	Vitrified clay	1.73 m	1.73 m

Total: 3 Inspections x Circular 150 mm, 0 mm = 31.29 m Total Length and 31.29 m Inspected Length

Circular, 225 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	FW2301 DS	MH OSA 02	10/07/2025	.	Vitrified clay	34.31 m	34.31 m
3	MH OSA 01	FW2301 US	10/07/2025	.	Vitrified clay	17.61 m	17.61 m

Total: 2 Inspections x Circular 225 mm, 0 mm = 51.92 m Total Length and 51.92 m Inspected Length

Total: 22 Inspections = 156.41 m Total Length and 156.41 m Inspected Length

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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Number of sections	26
Total length of sections	160.12 m
Total length of inspected sections	160.12 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	18
Number of section inspection photos	141
Number of section inspection videos	26
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	UNK01X	Upstream Node:	UNK01
Inspection Direction:	Upstream	Downstream Node:	MH01 US
Inspected Length:	1.58 m	Dia/Height:	100 mm
Total Length:	1.58 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01 US
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.77	JDM	Joint displaced, medium
4	0.87	LU	Line deviates up
5	1.58	BRF	Finish node, major connection without manhole, reference: UNK01

PLR:	FW2301 DSX	Upstream Node:	FW2301 DS
Inspection Direction:	Downstream	Downstream Node:	MH OSA 02
Inspected Length:	34.31 m	Dia/Height:	225 mm
Total Length:	34.31 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: FW2301 DS
2	0.00	WL	Water level, 30% of the vertical dimension
3	0.00	CM	Cracks, multiple from 11 o'clock to 4 o'clock
4	0.19	JDM	Joint displaced, medium
5	0.54	JN	Junction at 10 o'clock, 100mm dia
6	2.54	JDM	Joint displaced, medium
7	2.54	CC	Crack, circumferential from 2 o'clock to 10 o'clock
8	3.44	B	Broken pipe from 10 o'clock to 2 o'clock
9	8.84	RF	Roots, fine
10	34.31	MHF	Finish node, manhole, reference: MH OSA 02

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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PLR:	MH OSA 01X	Upstream Node:	MH OSA 01
Inspection Direction:	Upstream	Downstream Node:	FW2301 US
Inspected Length:	17.61 m	Dia/Height:	225 mm
Total Length:	17.61 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: FW2301 US
2	0.00	WL	Water level, 30% of the vertical dimension
3	5.43	JN	Junction at 10 o'clock, 100mm dia
4	8.26	RM	Roots, mass, 50% cross-sectional area loss
5	8.95	CC	Crack, circumferential from 7 o'clock to 11 o'clock
6	8.95	RM	Roots, mass, 50% cross-sectional area loss
7	9.90	RM	Roots, mass, 50% cross-sectional area loss
8	10.45	RF	Roots, fine
9	12.86	RM	Roots, mass, 25% cross-sectional area loss
10	14.33	RM	Roots, mass, 30% cross-sectional area loss
11	16.76	RM	Roots, mass, 50% cross-sectional area loss
12	17.23	RM	Roots, mass, 50% cross-sectional area loss
13	17.61	SA	Survey abandoned

PLR:	UNK02X	Upstream Node:	UNK02
Inspection Direction:	Upstream	Downstream Node:	MH01 BR1
Inspected Length:	2.23 m	Dia/Height:	100 mm
Total Length:	2.23 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.32	LL	Line deviates left
4	1.42	JDL	Joint displaced, large
5	1.50	LR	Line deviates right
6	2.00	LU	Line deviates up
7	2.23	BRF	Finish node, major connection without manhole, reference: UNK02

PLR:	MH01 DSX	Upstream Node:	MH01 DS
Inspection Direction:	Downstream	Downstream Node:	UNK03
Inspected Length:	3.91 m	Dia/Height:	100 mm
Total Length:	3.91 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01 DS
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.29	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	1.74	DES	Settled deposits, fine, 10% cross-sectional area loss, finish
5	3.91	MHF	Finish node, manhole, reference: MH02

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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PLR:		UNK03X		Upstream Node:	UNK03
Inspection Direction:		Upstream		Downstream Node:	MH02 BR1
Inspected Length:		2.04 m		Dia/Height:	100 mm
Total Length:		2.04 m		Material:	Polyvinyl chloride
No.	m +	Code	Observation		
1	-0.02	MH	Start node, manhole, reference: MH02 BR1		
2	-0.02	WL	Water level, 5% of the vertical dimension		
3	2.00	SA	Survey abandoned		
4	2.04	DER	Settled deposits, coarse, 100% cross-sectional area loss		
PLR:		MH02 DSX		Upstream Node:	MH02 DS
Inspection Direction:		Downstream		Downstream Node:	UNK04
Inspected Length:		10.82 m		Dia/Height:	100 mm
Total Length:		10.82 m		Material:	Vitrified clay
No.	m +	Code	Observation		
1	0.00	MH	Start node, manhole, reference: MH02 DS		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	0.00	DES	Settled deposits, fine, 5% cross-sectional area loss		
4	8.22	DES	Settled deposits, fine, 25% cross-sectional area loss, start		
5	9.68	DES	Settled deposits, fine, 25% cross-sectional area loss, finish		
6	10.74	JDL	Joint displaced, large		
7	10.82	SA	Survey abandoned		
PLR:		UNK05X		Upstream Node:	UNK05
Inspection Direction:		Upstream		Downstream Node:	MH03 US
Inspected Length:		2.55 m		Dia/Height:	100 mm
Total Length:		2.55 m		Material:	Vitrified clay
No.	m +	Code	Observation		
1	0.00	MH	Start node, manhole, reference: MH03 US		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	0.14	JDL	Joint displaced, large		
4	0.20	JDL	Joint displaced, large		
5	0.26	CC	Crack, circumferential from 7 o'clock to 5 o'clock		
6	0.39	DES	Settled deposits, fine, 10% cross-sectional area loss, start		
7	2.31	DES	Settled deposits, fine, 10% cross-sectional area loss, finish		
8	2.31	DEC	Settled deposits, hard or compacted, 50% cross-sectional area loss		
9	2.55	SA	Survey abandoned		
PLR:		UNK06X		Upstream Node:	UNK06
Inspection Direction:		Upstream		Downstream Node:	MH03 BR1
Inspected Length:		0.85 m		Dia/Height:	100 mm
Total Length:		0.85 m		Material:	Vitrified clay
No.	m +	Code	Observation		
1	0.00	MH	Start node, manhole, reference: MH03 BR1		
2	0.08	WL	Water level, 5% of the vertical dimension		
3	0.81	SA	Survey abandoned		

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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No.	m +	Code	Observation																
4	0.85	JDL	Joint displaced, large																
<table> <tr> <td>PLR:</td><td>UNK07X</td><td>Upstream Node:</td><td>UNK07</td></tr> <tr> <td>Inspection Direction:</td><td>Upstream</td><td>Downstream Node:</td><td>MH03 BR2</td></tr> <tr> <td>Inspected Length:</td><td>0.18 m</td><td>Dia/Height:</td><td>100 mm</td></tr> <tr> <td>Total Length:</td><td>0.18 m</td><td>Material:</td><td>Vitrified clay</td></tr> </table>				PLR:	UNK07X	Upstream Node:	UNK07	Inspection Direction:	Upstream	Downstream Node:	MH03 BR2	Inspected Length:	0.18 m	Dia/Height:	100 mm	Total Length:	0.18 m	Material:	Vitrified clay
PLR:	UNK07X	Upstream Node:	UNK07																
Inspection Direction:	Upstream	Downstream Node:	MH03 BR2																
Inspected Length:	0.18 m	Dia/Height:	100 mm																
Total Length:	0.18 m	Material:	Vitrified clay																
No.	m +	Code	Observation																
1	-0.04	DES	Settled deposits, fine, 5% cross-sectional area loss																
2	-0.02	WL	Water level, 5% of the vertical dimension																
3	0.00	MH	Start node, manhole, reference: MH03 BR2																
4	0.16	JDL	Joint displaced, large																
5	0.16	SA	Survey abandoned																
6	0.18	LL	Line deviates left																
<table> <tr> <td>PLR:</td><td>UNK08X</td><td>Upstream Node:</td><td>UNK08</td></tr> <tr> <td>Inspection Direction:</td><td>Upstream</td><td>Downstream Node:</td><td>MH03 BR3</td></tr> <tr> <td>Inspected Length:</td><td>0.16 m</td><td>Dia/Height:</td><td>100 mm</td></tr> <tr> <td>Total Length:</td><td>0.16 m</td><td>Material:</td><td>Vitrified clay</td></tr> </table>				PLR:	UNK08X	Upstream Node:	UNK08	Inspection Direction:	Upstream	Downstream Node:	MH03 BR3	Inspected Length:	0.16 m	Dia/Height:	100 mm	Total Length:	0.16 m	Material:	Vitrified clay
PLR:	UNK08X	Upstream Node:	UNK08																
Inspection Direction:	Upstream	Downstream Node:	MH03 BR3																
Inspected Length:	0.16 m	Dia/Height:	100 mm																
Total Length:	0.16 m	Material:	Vitrified clay																
No.	m +	Code	Observation																
1	0.00	MH	Start node, manhole, reference: MH03 BR3																
2	0.04	WL	Water level, 5% of the vertical dimension																
3	0.13	REM	General remark																
4	0.14	DEE	Attached deposits, encrustation at 12 o'clock, 25% cross-sectional area loss																
5	0.16	SA	Survey abandoned																
<table> <tr> <td>PLR:</td><td>UNK09X</td><td>Upstream Node:</td><td>UNK09</td></tr> <tr> <td>Inspection Direction:</td><td>Upstream</td><td>Downstream Node:</td><td>MH03 BR4</td></tr> <tr> <td>Inspected Length:</td><td>1.27 m</td><td>Dia/Height:</td><td>100 mm</td></tr> <tr> <td>Total Length:</td><td>1.27 m</td><td>Material:</td><td>Vitrified clay</td></tr> </table>				PLR:	UNK09X	Upstream Node:	UNK09	Inspection Direction:	Upstream	Downstream Node:	MH03 BR4	Inspected Length:	1.27 m	Dia/Height:	100 mm	Total Length:	1.27 m	Material:	Vitrified clay
PLR:	UNK09X	Upstream Node:	UNK09																
Inspection Direction:	Upstream	Downstream Node:	MH03 BR4																
Inspected Length:	1.27 m	Dia/Height:	100 mm																
Total Length:	1.27 m	Material:	Vitrified clay																
No.	m +	Code	Observation																
1	0.00	MH	Start node, manhole, reference: MH03 BR4																
2	0.00	WL	Water level, 5% of the vertical dimension																
3	0.30	JDM	Joint displaced, medium																
4	0.30	LR	Line deviates right																
5	1.27	SA	Survey abandoned																
<table> <tr> <td>PLR:</td><td>MH03 DSX</td><td>Upstream Node:</td><td>MH03 DS</td></tr> <tr> <td>Inspection Direction:</td><td>Downstream</td><td>Downstream Node:</td><td>UNK10</td></tr> <tr> <td>Inspected Length:</td><td>4.59 m</td><td>Dia/Height:</td><td>100 mm</td></tr> <tr> <td>Total Length:</td><td>4.59 m</td><td>Material:</td><td>Vitrified clay</td></tr> </table>				PLR:	MH03 DSX	Upstream Node:	MH03 DS	Inspection Direction:	Downstream	Downstream Node:	UNK10	Inspected Length:	4.59 m	Dia/Height:	100 mm	Total Length:	4.59 m	Material:	Vitrified clay
PLR:	MH03 DSX	Upstream Node:	MH03 DS																
Inspection Direction:	Downstream	Downstream Node:	UNK10																
Inspected Length:	4.59 m	Dia/Height:	100 mm																
Total Length:	4.59 m	Material:	Vitrified clay																
No.	m +	Code	Observation																
1	0.00	MH	Start node, manhole, reference: MH03 DS																
2	0.00	WL	Water level, 5% of the vertical dimension																
3	3.68	LL	Line deviates left																
4	4.59	BRF	Finish node, major connection without manhole, reference: UNK10																

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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PLR:	UNK11X	Upstream Node:	UNK11
Inspection Direction:	Upstream	Downstream Node:	MH04 BR1
Inspected Length:	10.54 m	Dia/Height:	150 mm
Total Length:	10.54 m	Material:	Polyvinyl chloride

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04 BR1
2	0.08	WL	Water level, 5% of the vertical dimension
3	9.82	LU	Line deviates up
4	10.54	BRF	Finish node, major connection without manhole, reference: UNK11

PLR:	UNK12X	Upstream Node:	UNK12
Inspection Direction:	Upstream	Downstream Node:	MH04 US
Inspected Length:	19.02 m	Dia/Height:	150 mm
Total Length:	19.02 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.14	MH	Start node, manhole, reference: MH04 US
2	0.16	WL	Water level, 5% of the vertical dimension
3	18.47	LU	Line deviates up
4	19.02	BRF	Finish node, major connection without manhole, reference: UNK12

PLR:	MH04 DSX	Upstream Node:	MH04 DS
Inspection Direction:	Downstream	Downstream Node:	UNK13
Inspected Length:	1.73 m	Dia/Height:	150 mm
Total Length:	1.73 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04 DS
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.73	MHF	Finish node, manhole, reference: MH UTL

PLR:	MH05 DSX	Upstream Node:	MH05 DS
Inspection Direction:	Downstream	Downstream Node:	UNK13
Inspected Length:	0.00 m	Dia/Height:	100 mm
Total Length:		Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH05 DS
2	0.00	DER	Settled deposits, coarse, 90% cross-sectional area loss
3	0.00	SA	Survey abandoned

PLR:	UNK14X	Upstream Node:	UNK14
Inspection Direction:	Upstream	Downstream Node:	MH05 BR1
Inspected Length:	1.49 m	Dia/Height:	100 mm
Total Length:	1.49 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.04	MH	Start node, manhole, reference: MH05 BR1
2	0.08	WL	Water level, 5% of the vertical dimension
3	1.49	BRF	Finish node, major connection without manhole, reference: UNK14

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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PLR:	UNK15X	Upstream Node:	UNK15
Inspection Direction:	Upstream	Downstream Node:	MH05 BR2
Inspected Length:	1.58 m	Dia/Height:	100 mm
Total Length:	1.58 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	-0.02	MH	Start node, manhole, reference: MH05 BR2
2	0.02	WL	Water level, 5% of the vertical dimension
3	1.41	LU	Line deviates up
4	1.58	BRF	Finish node, major connection without manhole, reference: UNK15

PLR:	UNK16X	Upstream Node:	UNK16
Inspection Direction:	Upstream	Downstream Node:	MH05 BR3
Inspected Length:	0.64 m	Dia/Height:	100 mm
Total Length:	0.64 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH05 BR3
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.16	CC	Crack, circumferential at 12 o'clock
4	0.30	JDM	Joint displaced, medium
5	0.36	DER	Settled deposits, coarse, 75% cross-sectional area loss, start
6	0.58	SA	Survey abandoned
7	0.64	DER	Settled deposits, coarse, 75% cross-sectional area loss, finish

PLR:	UNK17X	Upstream Node:	UNK17
Inspection Direction:	Upstream	Downstream Node:	MH05 US
Inspected Length:	16.05 m	Dia/Height:	100 mm
Total Length:	16.05 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH05 US
2	0.02	WL	Water level, 5% of the vertical dimension
3	2.53	JN	Junction at 9 o'clock, 100mm dia
4	11.08	JN	Junction at 9 o'clock, 100mm dia
5	15.59	DER	Settled deposits, coarse, 50% cross-sectional area loss
6	16.05	SA	Survey abandoned

PLR:	MH06 DSX	Upstream Node:	MH06 DS
Inspection Direction:	Downstream	Downstream Node:	UNK19
Inspected Length:	17.89 m	Dia/Height:	100 mm
Total Length:	17.89 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.02	MH	Start node, manhole, reference: MH06 DS
2	0.04	WL	Water level, 5% of the vertical dimension
3	0.77	JDM	Joint displaced, medium
4	0.77	LL	Line deviates left
5	1.20	JDL	Joint displaced, large
6	2.65	LL	Line deviates left

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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No.	m +	Code	Observation
7	3.20	JDM	Joint displaced, medium
8	3.81	JDL	Joint displaced, large
9	5.49	CC	Crack, circumferential at 12 o'clock
10	15.94	MCPVC	Pipe material changes to polyvinyl chloride at this point
11	17.89	MHF	Finish node, manhole, reference: BMH01

PLR:	UNK19X	Upstream Node:	UNK19
Inspection Direction:	Upstream	Downstream Node:	MH06 US
Inspected Length:	0.71 m	Dia/Height:	100 mm
Total Length:	0.71 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.10	DEX	Settled deposits, other, 75% cross-sectional area loss
2	0.12	MH	Start node, manhole, reference: MH06 US
3	0.12	WL	Water level, 30% of the vertical dimension
4	0.71	SA	Survey abandoned

PLR:	UNK20X	Upstream Node:	UNK20
Inspection Direction:	Upstream	Downstream Node:	MH06 BR1
Inspected Length:	5.40 m	Dia/Height:	100 mm
Total Length:	5.40 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH06 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	5.40	MHF	Finish node, manhole, reference: MH OSA 2

PLR:	UNK21X	Upstream Node:	UNK21
Inspection Direction:	Upstream	Downstream Node:	MH06 BR3
Inspected Length:	1.96 m	Dia/Height:	100 mm
Total Length:	1.96 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH06 BR3
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.74	LU	Line deviates up
4	1.96	SA	Survey abandoned

PLR:	UNK22X	Upstream Node:	UNK22
Inspection Direction:	Upstream	Downstream Node:	MH06 BR4
Inspected Length:	1.01 m	Dia/Height:	100 mm
Total Length:	1.01 m	Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH06 BR4
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.08	CC	Crack, circumferential from 8 o'clock to 3 o'clock
4	0.08	JDM	Joint displaced, medium
5	1.01	SA	Survey abandoned

Section Summary

Project Name 684081 - CCTV Drainage Survey - Selwood Eastleigh.wcx	Project Number 684081	Project Date 09/07/2025
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PLR:	GY01 PHOTX	Upstream Node:	GY01 PHOTO
Inspection Direction:	Downstream	Downstream Node:	GY01 PHOTO
Inspected Length:	0.00 m	Dia/Height:	100 mm
Total Length:		Material:	Vitrified clay

No.	m +	Code	Observation
1	0.00	GY	Start node, gully, reference: GY01 PHOTO
2	0.00	REM	General remark
3	0.00	GYF	Finish node, gully, reference: GY01 PHOTO

PLR:	GY02 PHOTX	Upstream Node:	GY02 PHOTO
Inspection Direction:	Upstream	Downstream Node:	GY02 PHOTO
Inspected Length:	0.00 m	Dia/Height:	100 mm
Total Length:		Material:	Vitrified clay

No.	m +	Code	Observation
1	-0.02	REM	General remark
2	-0.02	GYF	Finish node, gully, reference: GY02 PHOTO
3	0.00	GY	Start node, gully, reference: GY02 PHOTO

Defect Grade Description (Lateral)

Project Name	Project Number	Project Date
684081 - CCTV Drainage Survey - Selwood Eastleigh.w cx	684081	09/07/2025

1:	Brick: Minor structural defects. Other: Minor structural defects, i.e. open or displaced joints without additional characteristics. Acceptable structural condition.
2:	Brick: Circumferential cracking. Single longitudinal crack. Surface mortar loss (depth missing < 15 mm). Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). Other: Circumferential cracking. Moderate joint defects, i.e. open joint (medium) or joint displaced (medium). Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). Minimal collapse likelihood in the short term but potential for further deterioration.
3:	Brick: Total mortar loss (depth missing > 50 mm) without other defects. More than one longitudinal crack (at a single location). Multiple cracking. Single bricks displaced. Deformation < 5%, no fracture and only moderate mortar loss. Surface damage - spalling medium (large areas of chipped brick). Surface damage - wear medium (entire surface of brick is missing). Other: Fracture with no deformation or deformation < 5%. Longitudinal cracking or multiple cracking. Minor loss of level. Severe joint defects i.e. open joint (large) or joint displaced (large). Surface damage - spalling medium. Surface damage - wear medium. Collapse unlikely in the near future but further deterioration likely.
4:	Brick: Total mortar loss (depth missing > 50 mm) with deformation > 10%. Deformation up to 10% and fractured. Displaced/hanging brickwork. Small number of missing bricks. Dropped invert (drop > 20 mm). Moderate loss of level. Surface damage - spalling large (entire surface of brick is missing). Surface damage - wear large (entire surface of brick missing). Other: Broken. Deformation up to 10% and broken. Fracture with deformation 6 - 10%. Multiple fracture. Serious loss of level. Serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter). Surface damage - spalling large. Surface damage - wear large. Collapse likely in the foreseeable future.
5:	Brick: Already collapsed. Missing invert. Deformation > 10% and fractured. Displaced/hanging brickwork and deformation < 10%. Extensive areas of missing brickwork. Other: Already collapsed. Deformation > 10% and broken. Fracture with deformation > 10%. Collapsed or collapse imminent.

Lateral Profile - 07/07/2025 - GY01 PHOTOX

Project Name 684081 - CCTV Drainage Survey - Selw ood Eastleigh.w cx	Project Number 684081	Project Date 09/07/2025
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Circular, 100 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	GY01 PHOTO	GY01 PHOTO	07/07/2025	.	Vitrified clay	0.00 m	0.00 m
2	GY02 PHOTO	GY02 PHOTO	07/07/2025	.	Vitrified clay	0.00 m	0.00 m

Total: 2 Laterals x Circular 100 mm, 0 mm = 0.00 m Total Length and 0.00 m Inspected Length

Total: 2 Laterals = 0.00 m Total Length and 0.00 m Inspected Length

Completed section inspection



Item No. 1	Insp. No. 1	Date 07/07/25	Time 7:27	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK01X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK01
Road:	.	Inspected Length:	1.58 m	Upstream Pipe Depth:	
Location:		Total Length:	1.58 m	Downstream Node:	MH01 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.580 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale: 1:50

Position [m]

Code

Observation

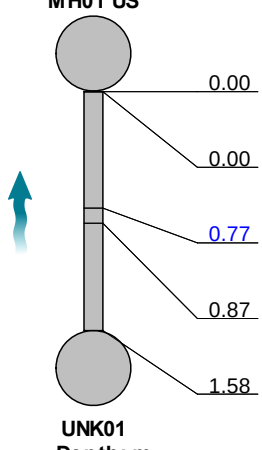
MPEG

Photo

Grade

Depth: 0.58 m

MH01 US



UNK01

Depth: m

0.00

MH

Start node, manhole, reference: MH01 US

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

00:00:02

0.77

JDM

Joint displaced, medium

00:00:10

1 / 3

0.87

LU

Line deviates up

00:00:12

1.58

BRF

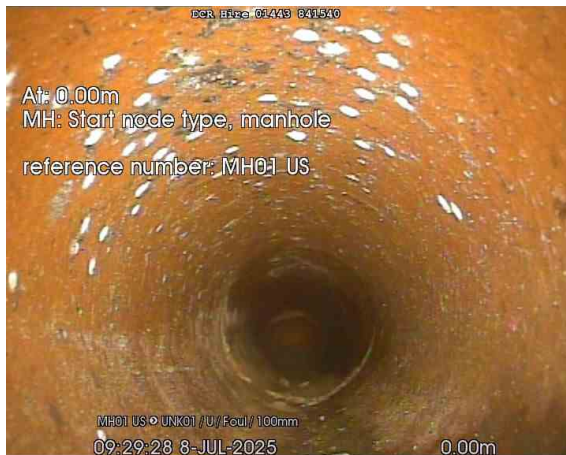
Finish node, major connection without manhole, reference: UNK01

00:00:32

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.6	1.0	1.0	1	2.0	1.3	2.0	3.0

Section Pictures - 07/07/2025 - UNK01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	UNK01X	SELWOOD EAASTLEIGH	



MH01 US_0-00m_092928.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH01 US



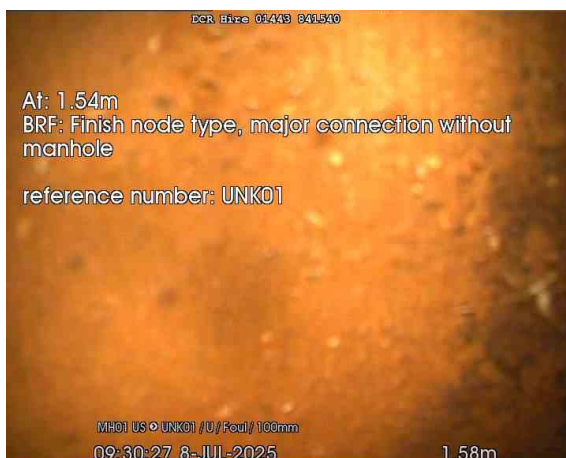
MH01 US_0-00m_092936.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



MH01 US_0-77m_092952.jpg, 00:00:10, 0.77 m
Joint displaced, medium



MH01 US_0-87m_093001.jpg, 00:00:12, 0.87 m
Line deviates up



MH01 US_1-58m_093027.jpg, 00:00:32, 1.58 m
Finish node, major connection without manhole, reference: UNK01

Completed section inspection

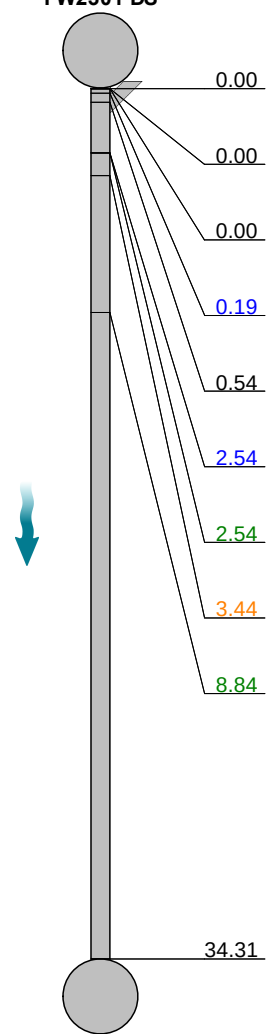


Item No. 2	Insp. No. 1	Date 10/07/25	Time 3:57	Client's Job Ref 684081	Weather No Rain Or Snow	Pre Cleaned No	PLR FW2301 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	FW2301 DS
Road:	.	Inspected Length:	34.31 m	Upstream Pipe Depth:	3.800 m
Location:		Total Length:	34.31 m	Downstream Node:	MH OSA 02
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

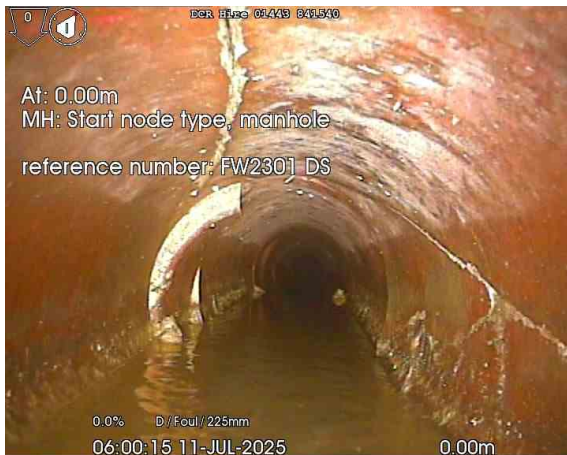
Recommendations:

Scale: 1:298	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 3.80 m FW2301 DS 						
	0.00	MH	Start node, manhole, reference: FW2301 DS	00:00:01		
	0.00	WL	Water level, 30% of the vertical dimension	00:00:03		
	0.00	CM	Cracks, multiple from 11 o'clock to 4 o'clock	00:00:04		
	0.19	JDM	Joint displaced, medium	00:00:10		1 / 3
	0.54	JN	Junction at 10 o'clock, 100mm dia	00:00:23		
	2.54	JDM	Joint displaced, medium	00:00:37		1 / 3
	2.54	CC	Crack, circumferential from 2 o'clock to 10 o'clock	00:00:39		2 / 2
	3.44	B	Broken pipe from 10 o'clock to 2 o'clock	00:00:47		4
	8.84	RF	Roots, fine	00:01:18		2
	34.31	MHF	Finish node, manhole, reference: MH OSA 02	00:03:36		
MH OSA 02 Depth: m						

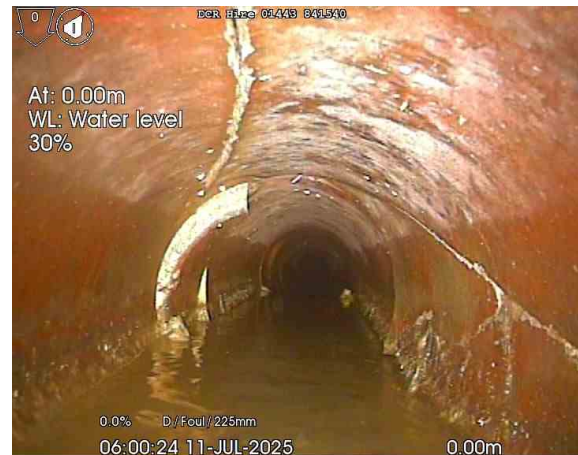
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	80.0	2.7	92.0	4.0	4	3.0	0.2	6.0	3.0

Section Pictures - 10/07/2025 - FW2301 DSX

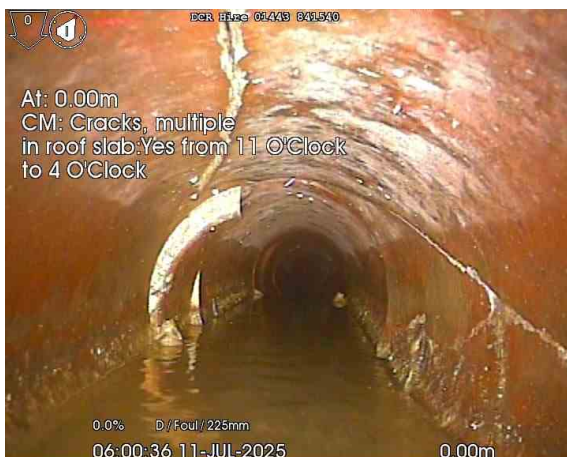
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	FW2301 DSX	684081	



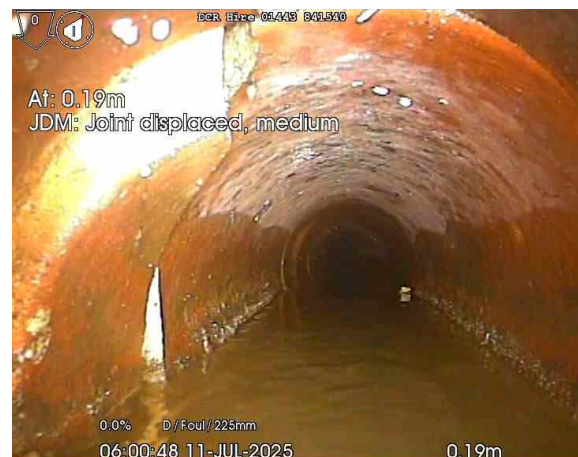
FW2301 DS_0-00m_060015.jpg, 00:00:01, 0.00 m
Start node, manhole, reference: FW2301 DS



FW2301 DS_0-00m_060024.jpg, 00:00:03, 0.00 m
Water level, 30% of the vertical dimension



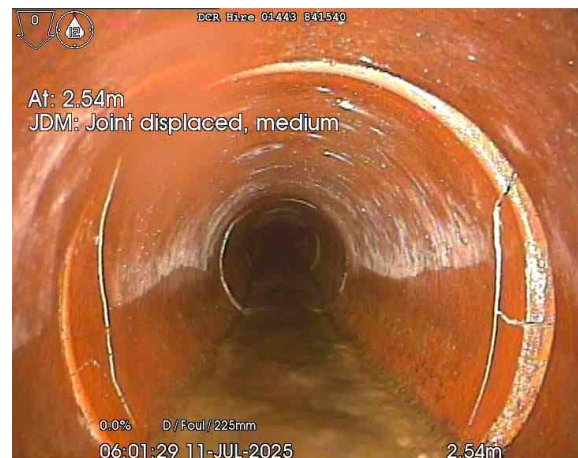
FW2301 DS_0-00m_060036.jpg, 00:00:04, 0.00 m
Cracks, multiple from 11 o'clock to 4 o'clock



FW2301 DS_0-19m_060048.jpg, 00:00:10, 0.19 m
Joint displaced, medium



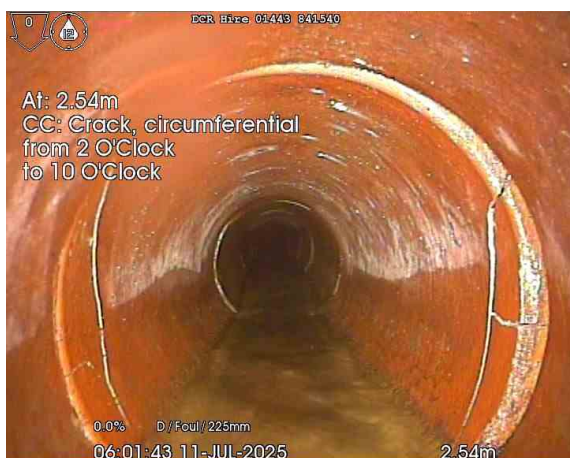
FW2301 DS_0-54m_060109.jpg, 00:00:23, 0.54 m
Junction at 10 o'clock, 100mm dia



FW2301 DS_2-54m_060129.jpg, 00:00:37, 2.54 m
Joint displaced, medium

Section Pictures - 10/07/2025 - FW2301 DSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	FW2301 DSX	684081	



FW2301 DS_2-54m_060143.jpg, 00:00:39, 2.54 m
Crack, circumferential from 2 o'clock to 10 o'clock



FW2301 DS_3-44m_060202.jpg, 00:00:47, 3.44 m
Broken pipe from 10 o'clock to 2 o'clock



FW2301 DS_8-84m_060239.jpg, 00:01:18, 8.84 m
Roots, fine



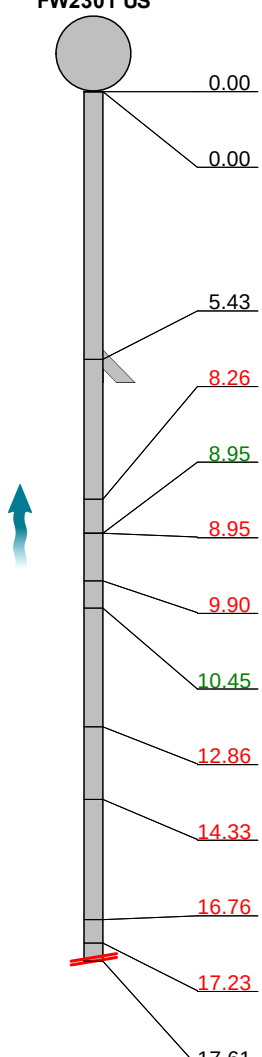
FW2301 DS_34-31m_060539.jpg, 00:03:36, 34.31 m
Finish node, manhole, reference: MH OSA 02

Abandoned section inspection



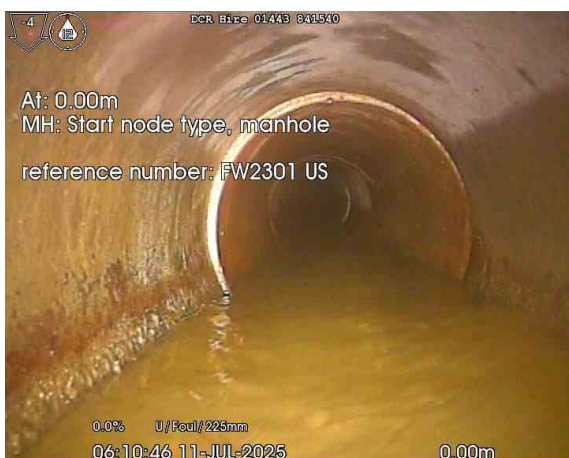
Item No. 3	Insp. No. 1	Date 10/07/25	Time 3:10	Client's Job Ref 684081	Weather No Rain Or Snow	Pre Cleaned No	PLR MH OSA 01X
Operator A.B/M.F		Vehicle Not Specified		Camera Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	MH OSA 01
Road:	.	Inspected Length:	17.61 m	Upstream Pipe Depth:	
Location:		Total Length:	17.61 m	Downstream Node:	FW2301 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	3.760 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale: 1:153	Position [m]	Code	Observation	MPEG	Photo	Grade			
Depth: 3.76 m FW2301 US									
									
0.00	MH	Start node, manhole, reference: FW2301 US	00:00:01						
0.00	WL	Water level, 30% of the vertical dimension	00:00:02						
5.43	JN	Junction at 10 o'clock, 100mm dia	00:00:36						
8.26	RM	Roots, mass, 50% cross-sectional area loss	00:00:56			5			
8.95	CC	Crack, circumferential from 7 o'clock to 11 o'clock	00:01:06			2 / 2			
8.95	RM	Roots, mass, 50% cross-sectional area loss	00:01:07			5			
9.90	RM	Roots, mass, 50% cross-sectional area loss	00:01:13			5			
10.45	RF	Roots, fine	00:01:18			2			
12.86	RM	Roots, mass, 25% cross-sectional area loss	00:01:30			5			
14.33	RM	Roots, mass, 30% cross-sectional area loss	00:01:39			5			
16.76	RM	Roots, mass, 50% cross-sectional area loss	00:01:51			5			
17.23	RM	Roots, mass, 50% cross-sectional area loss	00:01:55			5			
17.61	SA	Survey abandoned: CAMERA UNABLE TO PASS ROOT MASS	00:02:00						
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	0.6	10.0	2.0	9	16.0	5.5	97.0	5.0

Section Pictures - 10/07/2025 - MH OSA 01X

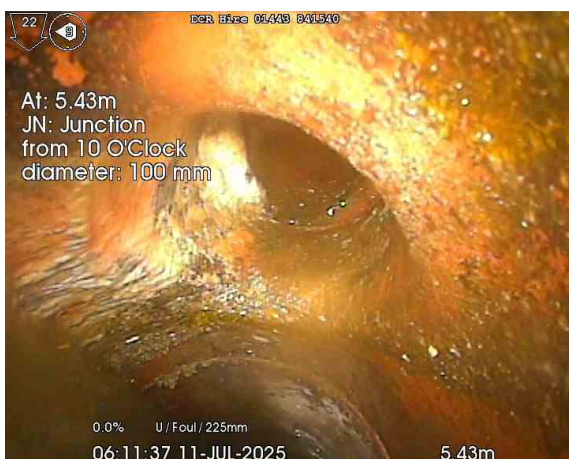
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	MH OSA 01X	684081	



FW2301 US_0-00m_061046.jpg, 00:00:01, 0.00 m
Start node, manhole, reference: FW2301 US



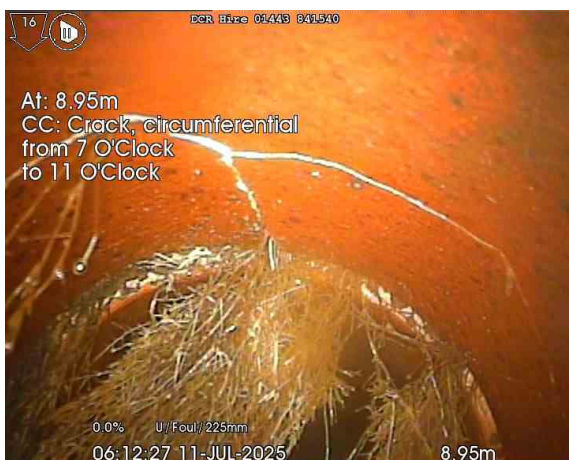
FW2301 US_0-00m_061055.jpg, 00:00:02, 0.00 m
Water level, 30% of the vertical dimension



FW2301 US_5-43m_061137.jpg, 00:00:36, 5.43 m
Junction at 10 o'clock, 100mm dia



FW2301 US_8-26m_061211.jpg, 00:00:56, 8.26 m
Roots, mass, 50% cross-sectional area loss



FW2301 US_8-95m_061227.jpg, 00:01:06, 8.95 m
Crack, circumferential from 7 o'clock to 11 o'clock



FW2301 US_8-95m_061236.jpg, 00:01:07, 8.95 m
Roots, mass, 50% cross-sectional area loss

Section Pictures - 10/07/2025 - MH OSA 01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	MH OSA 01X	684081	



FW2301 US_9-90m_061249.jpg, 00:01:13, 9.90 m
Roots, mass, 50% cross-sectional area loss



FW2301 US_10-45m_061259.jpg, 00:01:18, 10.45 m
Roots, fine



FW2301 US_12-86m_061320.jpg, 00:01:30, 12.86 m
Roots, mass, 25% cross-sectional area loss



FW2301 US_14-33m_061335.jpg, 00:01:39, 14.33 m
Roots, mass, 30% cross-sectional area loss



FW2301 US_16-76m_061353.jpg, 00:01:51, 16.76 m
Roots, mass, 50% cross-sectional area loss



FW2301 US_17-23m_061405.jpg, 00:01:55, 17.23 m
Roots, mass, 50% cross-sectional area loss

Section Pictures - 10/07/2025 - MH OSA 01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	MH OSA 01X	684081	



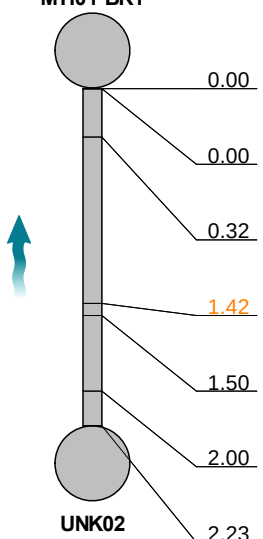
FW2301 US_17-61m_061427.jpg, 00:02:00, 17.61 m
Survey abandoned, CAMERA UNABLE TO PASS ROOT
MASS

Completed section inspection



Item No. 4	Insp. No. 1	Date 07/07/25	Time 7:30	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK02X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

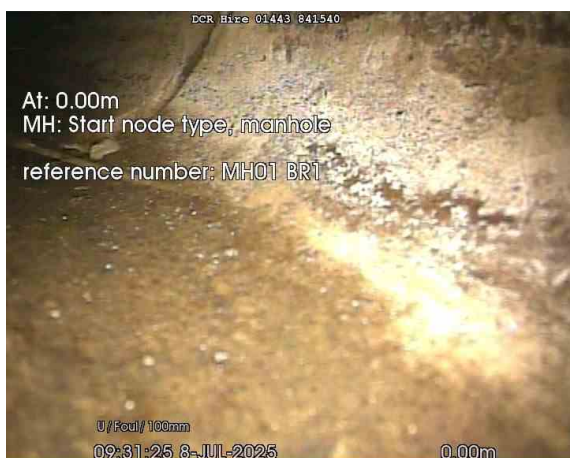
Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK02
Road:	.	Inspected Length:	2.23 m	Upstream Pipe Depth:	
Location:		Total Length:	2.23 m	Downstream Node:	MH01 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.500 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.50 m MH01 BR1						
						
	0.00	MH	Start node, manhole, reference: MH01 BR1	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.32	LL	Line deviates left	00:00:04		
	1.42	JDL	Joint displaced, large	00:00:11		1 / 4
	1.50	LR	Line deviates right	00:00:21		
	2.00	LU	Line deviates up	00:00:33		
	2.23	BRF	Finish node, major connection without manhole, reference: UNK02	00:00:37		
Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.9	2.0	1.0	1	5.0	2.2	5.0	4.0

Section Pictures - 07/07/2025 - UNK02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	UNK02X	SELWOOD EASTLEIGH	



MH01 BR1_0-00m_093125.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH01 BR1



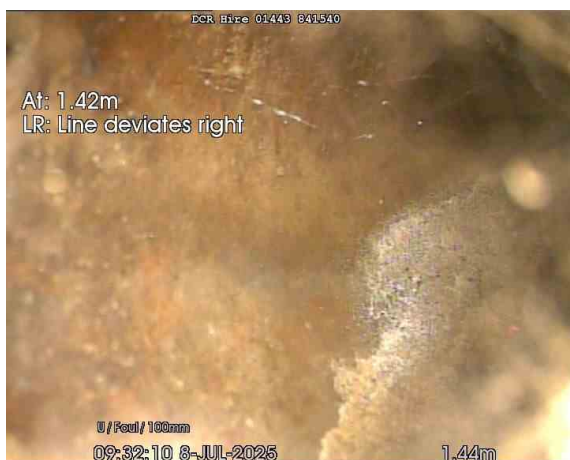
MH01 BR1_0-00m_093132.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



MH01 BR1_0-32m_093142.jpg, 00:00:04, 0.32 m
Line deviates left



MH01 BR1_1-42m_093156.jpg, 00:00:11, 1.42 m
Joint displaced, large



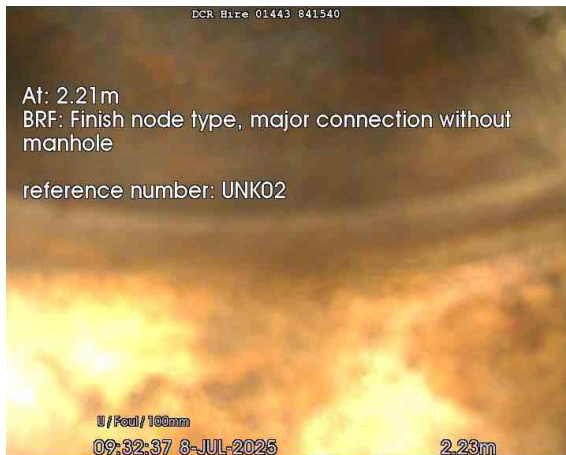
MH01 BR1_1-50m_093210.jpg, 00:00:21, 1.50 m
Line deviates right



MH01 BR1_2-00m_093228.jpg, 00:00:33, 2.00 m
Line deviates up

Section Pictures - 07/07/2025 - UNK02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	UNK02X	SELWOOD EASTLEIGH	



MH01 BR1_2-23m_093237.jpg, 00:00:37, 2.23 m
Finish node, major connection without manhole, reference:
UNK02

WEB PROJECT
CLICK TO OPEN THIS SECTION

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	MH01 DS
Road:	.	Inspected Length:	3.91 m	Upstream Pipe Depth:	0.600 m
Location:		Total Length:	3.91 m	Downstream Node:	UNK03
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Recommendations:

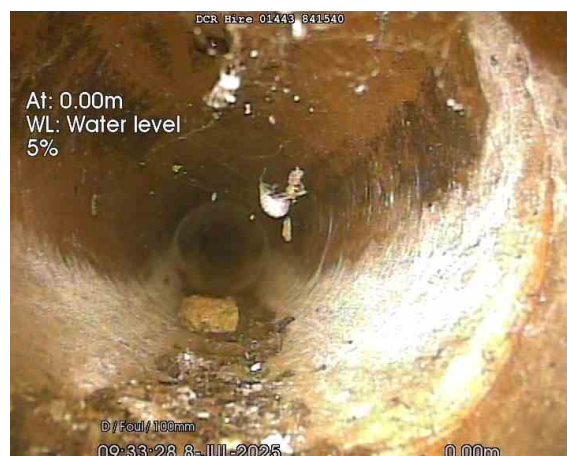
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.0	4.0	3.0

Section Pictures - 07/07/2025 - MH01 DSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	MH01 DSX	SELWOOD EAASTLEIGH	



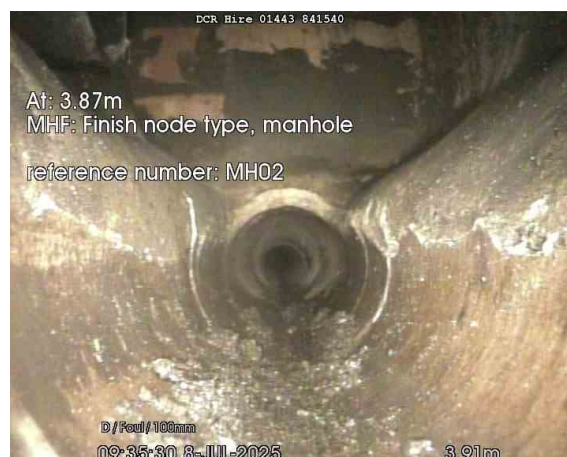
MH01 DS_0-00m_093321.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH01 DS



MH01 DS_0-00m_093328.jpg, 00:00:01, 0.00 m
Water level, 5% of the vertical dimension



MH01 DS_0-29m_093343.jpg, 00:00:04, 0.29 m
Settled deposits, fine, 10% cross-sectional area loss, start



MH01 DS_3-91m_093530.jpg, 00:00:44, 3.91 m
Finish node, manhole, reference: MH02

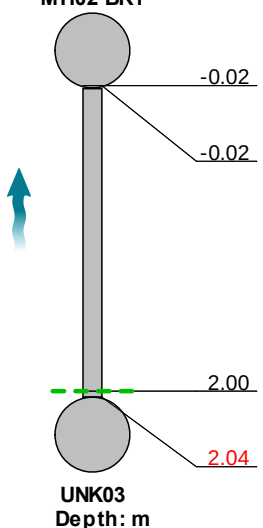
Combined section inspection



Item No. 6	Insp. No. 1	Date 07/07/25	Time 8:35	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK03X
Operator A.B/M.F		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK03
Road:	.	Inspected Length:	2.04 m	Upstream Pipe Depth:	
Location:		Total Length:	2.04 m	Downstream Node:	MH02 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.620 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
						
	-0.02	MH	Start node, manhole, reference: MH02 BR1	00:00:00		
	-0.02	WL	Water level, 5% of the vertical dimension	00:00:01		
	2.00	SA	Survey abandoned: UNABLE TO PASS DEBRIS	00:00:12		
	2.04	DER	Settled deposits, coarse, 100% cross-sectional area loss	00:00:10		5

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	4.9	10.0	5.0

Section Pictures - 07/07/2025 - UNK03X

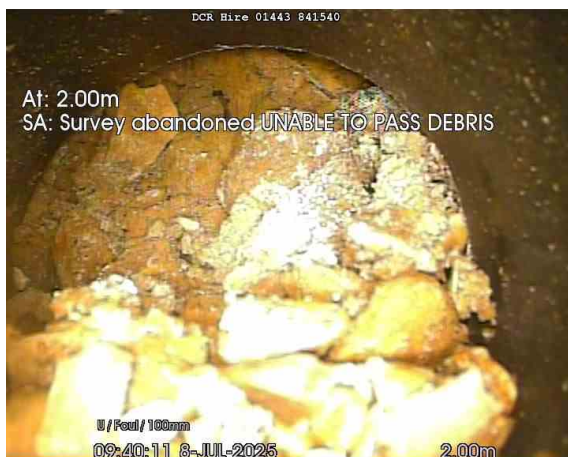
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	UNK03X	SELWOOD EAASTLEIGH	



MH02 BR1_-0-02m_093920.jpg, 00:00:00, -0.02 m
Start node, manhole, reference: MH02 BR1



MH02 BR1_-0-02m_093927.jpg, 00:00:01, -0.02 m
Water level, 5% of the vertical dimension



MH02 BR1_2-00m_094011.jpg, 00:00:12, 2.00 m
Survey abandoned, UNABLE TO PASS DEBRIS



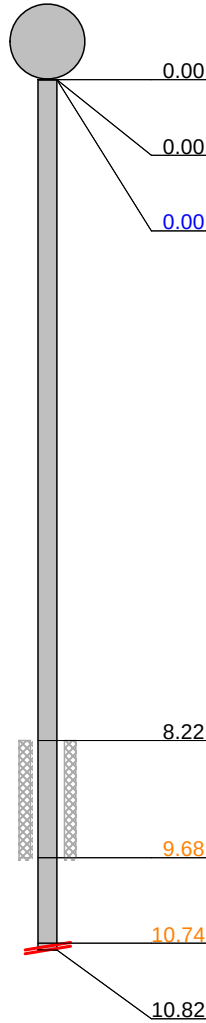
MH02 BR1_2-04m_093949.jpg, 00:00:10, 2.04 m
Settled deposits, coarse, 100% cross-sectional area loss

Abandoned section inspection



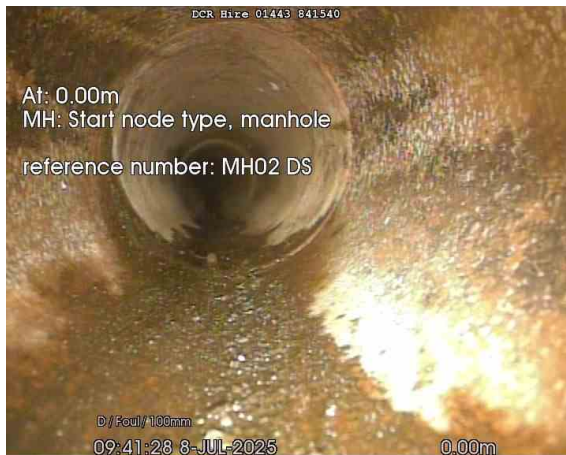
Item No. 7	Insp. No. 1	Date 07/07/25	Time 7:40	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR MH02 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	MH02 DS
Road:	.	Inspected Length:	10.82 m	Upstream Pipe Depth:	0.770 m
Location:		Total Length:	10.82 m	Downstream Node:	UNK04
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale:	1:94	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: 0.77 m MH02 DS 									
0.00	MH		Start node, manhole, reference: MH02 DS	00:00:00					
0.00	WL		Water level, 5% of the vertical dimension	00:00:02					
0.00	DES		Settled deposits, fine, 5% cross-sectional area loss	00:00:04			3		
8.22	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:33					
9.68	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:39			4		
10.74	JDL		Joint displaced, large	00:00:46			1 / 4		
10.82	SA		Survey abandoned: UNABLE TO PASS DISPLACEMENT	00:00:51					
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.2	2.0	1.0	3	5.0	1.6	17.0	4.0

Section Pictures - 07/07/2025 - MH02 DSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH02 DSX	SELWOOD EAASTLEIGH	



MH02 DS_0-00m_094128.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02 DS



MH02 DS_0-00m_094136.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



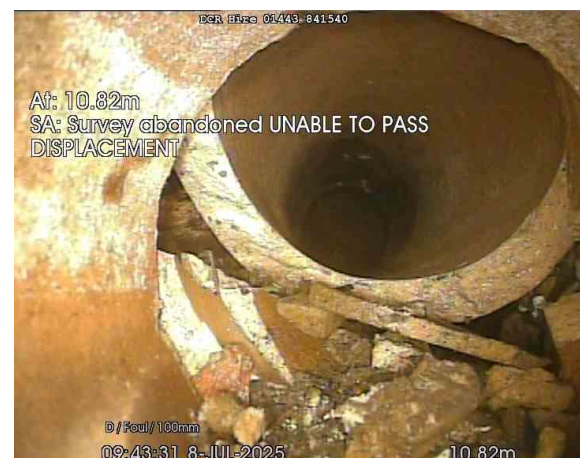
MH02 DS_0-00m_094145.jpg, 00:00:04, 0.00 m
Settled deposits, fine, 5% cross-sectional area loss



MH02 DS_8-22m_094232.jpg, 00:00:33, 8.22 m
Settled deposits, fine, 25% cross-sectional area loss, start



MH02 DS_10-74m_094305.jpg, 00:00:46, 10.74 m
Joint displaced, large



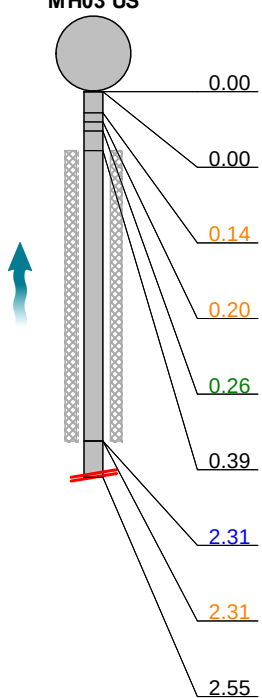
MH02 DS_10-82m_094331.jpg, 00:00:51, 10.82 m
Survey abandoned, UNABLE TO PASS DISPLACEMENT

Abandoned section inspection



Item No. 8	Insp. No. 1	Date 08/07/25	Time 9:43	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK05X
Operator A.B/M.F		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK05
Road:	.	Inspected Length:	2.55 m	Upstream Pipe Depth:	
Location:		Total Length:	2.55 m	Downstream Node:	MH03 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

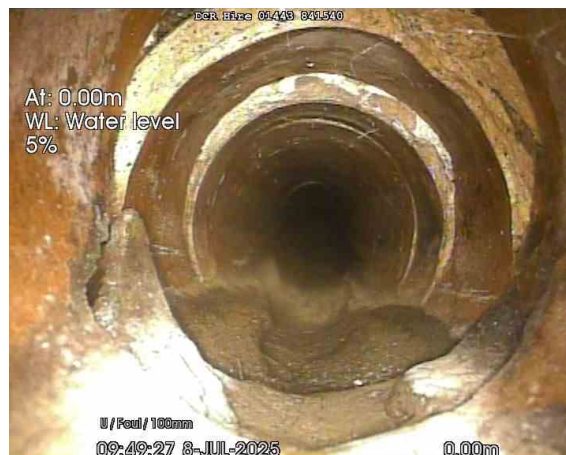
Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: m MH03 US 									
		0.00	MH	Start node, manhole, reference: MH03 US	00:00:02				
		0.00	WL	Water level, 5% of the vertical dimension	00:00:04				
		0.14	JDL	Joint displaced, large	00:00:08		1 / 4		
		0.20	JDL	Joint displaced, large	00:00:13		1 / 4		
		0.26	CC	Crack, circumferential from 7 o'clock to 5 o'clock	00:00:19		2 / 2		
		0.39	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:22			
		2.31	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:46	3		
		2.31	DEC	DEC	Settled deposits, hard or compacted, 50% cross-sectional area loss	00:00:47	4		
		2.55	SA	SA	Survey abandoned: CAMERA UNABLE TO TRAVEL FURTHER	00:00:48			
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	10.0	5.5	14.0	2.0	5	10.0	9.0	23.0	5.0

Section Pictures - 08/07/2025 - UNK05X

Item No. 8	Inspection Direction Upstream	PLR UNK05X	Client's Job Ref SELWOOD EAASTLEIGH	Contractor's Job Ref
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MH03 US_0-00m_094920.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: MH03 US



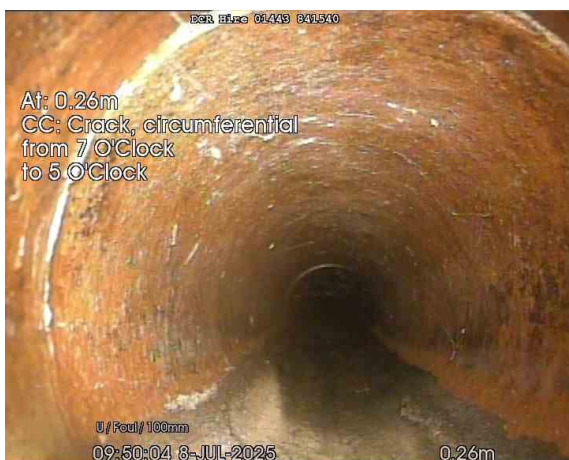
MH03 US_0-00m_094927.jpg, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension



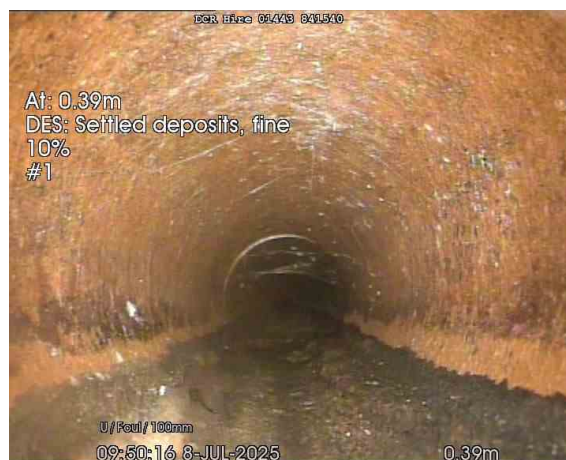
MH03 US_0-14m_094937.jpg, 00:00:08, 0.14 m
Joint displaced, large



MH03 US_0-20m_094949.jpg, 00:00:13, 0.20 m
Joint displaced, large



MH03 US_0-26m_095004.jpg, 00:00:19, 0.26 m
Crack, circumferential from 7 o'clock to 5 o'clock



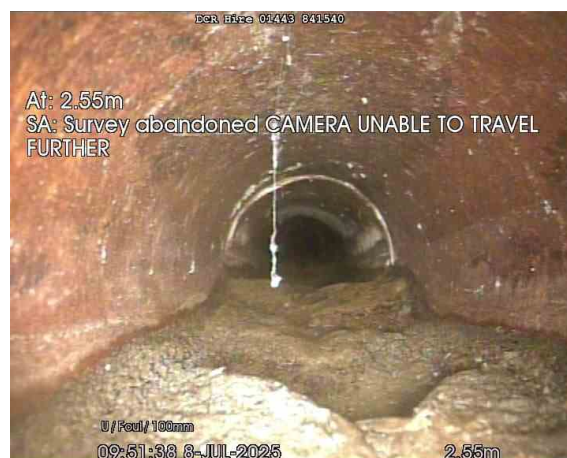
MH03 US_0-39m_095016.jpg, 00:00:22, 0.39 m
Settled deposits, fine, 10% cross-sectional area loss, start

Section Pictures - 08/07/2025 - UNK05X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	UNK05X	SELWOOD EAASTLEIGH	



MH03 US_2-31m_095106.jpg, 00:00:47, 2.31 m
Settled deposits, hard or compacted, 50% cross-sectional area loss



MH03 US_2-55m_095138.jpg, 00:00:48, 2.55 m
Survey abandoned, CAMERA UNABLE TO TRAVEL FURTHER

Combined section inspection

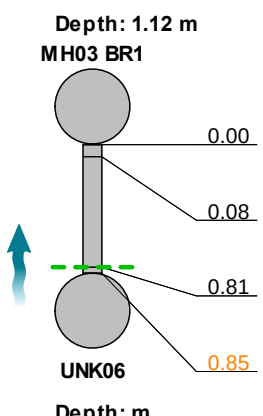


Item No. 9	Insp. No. 1	Date 07/07/25	Time 8:51	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK06X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK06
Road:	.	Inspected Length:	0.85 m	Upstream Pipe Depth:	
Location:		Total Length:	0.85 m	Downstream Node:	MH03 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.120 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

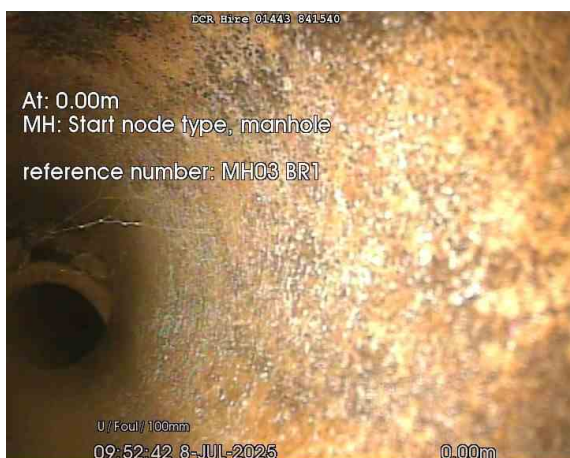
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node, manhole, reference: MH03 BR1	00:00:00		
	0.08	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.81	SA	Survey abandoned: OVERLAP WITH MH02 DS	00:00:13		
	0.85	JDL	Joint displaced, large: OVERLAP WITH MH02 DS	00:00:11		1 / 4

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	2.4	2.0	1.0	1	5.0	5.9	5.0	5.0

Section Pictures - 07/07/2025 - UNK06X

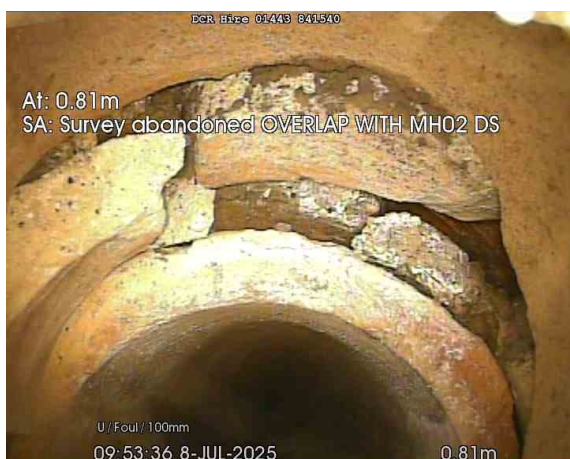
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	UNK06X	SELWOOD EAASTLEIGH	



MH03 BR1_0-00m_095242.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH03 BR1



MH03 BR1_0-08m_095249.jpg, 00:00:02, 0.08 m
Water level, 5% of the vertical dimension



MH03 BR1_0-81m_095336.jpg, 00:00:13, 0.81 m
Survey abandoned, OVERLAP WITH MH02 DS



MH03 BR1_0-85m_095319.jpg, 00:00:11, 0.85 m
Joint displaced, large, OVERLAP WITH MH02 DS

Combined section inspection

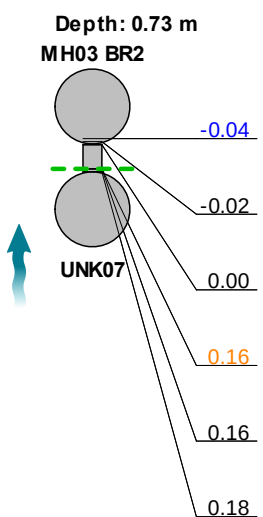


Item No. 10	Insp. No. 1	Date 07/07/25	Time 8:53	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK07X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK07
Road:	.	Inspected Length:	0.18 m	Upstream Pipe Depth:	
Location:		Total Length:	0.18 m	Downstream Node:	MH03 BR2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.730 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
						
	-0.04	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:05		3
	-0.02	WL	Water level, 5% of the vertical dimension	00:00:03		
	0.00	MH	Start node, manhole, reference: MH03 BR2	00:00:00		
	0.16	JDL	Joint displaced, large	00:00:16		1 / 4
	0.16	SA	Survey abandoned: CAMERA UNABLE TO PASS JDL	00:00:18		
	0.18	LL	Line deviates left	00:00:07		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	11.1	2.0	1.0	2	5.0	38.9	7.0	5.0

Section Pictures - 07/07/2025 - UNK07X

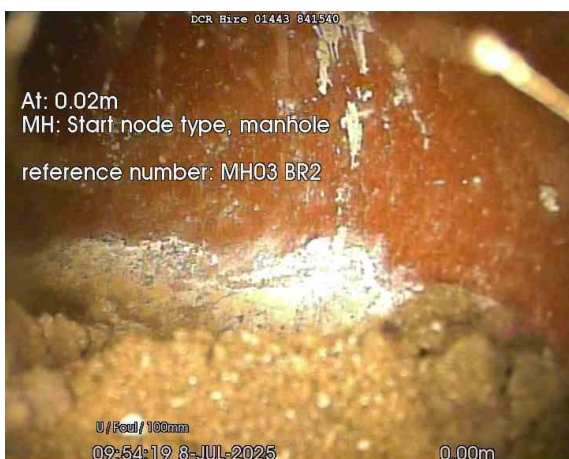
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	UNK07X	SELWOOD EAASTLEIGH	



MH03 BR2_-0-04m_095437.jpg, 00:00:05, -0.04 m
Settled deposits, fine, 5% cross-sectional area loss



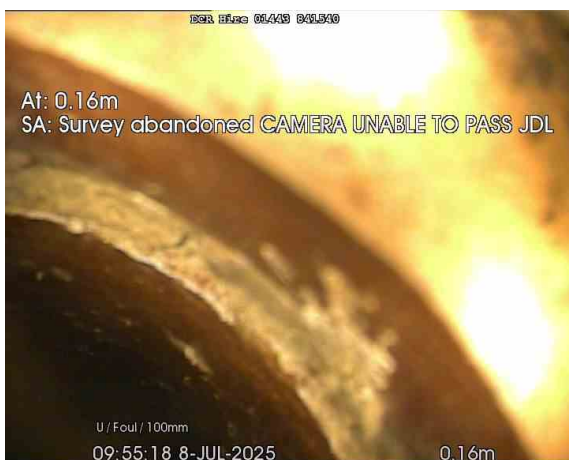
MH03 BR2_-0-02m_095427.jpg, 00:00:03, -0.02 m
Water level, 5% of the vertical dimension



MH03 BR2_0-00m_095419.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH03 BR2



MH03 BR2_0-16m_095458.jpg, 00:00:16, 0.16 m
Joint displaced, large



MH03 BR2_0-16m_095518.jpg, 00:00:18, 0.16 m
Survey abandoned, CAMERA UNABLE TO PASS JDL



MH03 BR2_0-18m_095443.jpg, 00:00:07, 0.18 m
Line deviates left

Abandoned section inspection

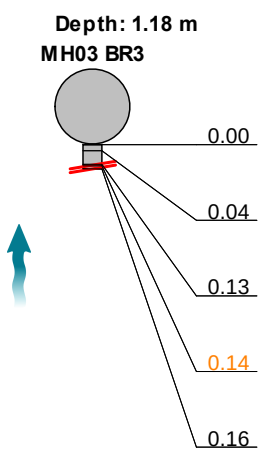


Item No. 11	Insp. No. 1	Date 07/07/25	Time 8:55	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK08X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK08
Road:	.	Inspected Length:	0.16 m	Upstream Pipe Depth:	
Location:		Total Length:	0.16 m	Downstream Node:	MH03 BR3
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.180 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node, manhole, reference: MH03 BR3	00:00:00		
	0.04	WL	Water level, 5% of the vertical dimension	00:00:01		
	0.13	REM	General remark: BACKDROP	00:00:31		
	0.14	DEE	Attached deposits, encrustation at 12 o'clock, 25% cross-sectional area loss: CAMERA UNABLE TO PASS	00:00:33		4
	0.16	SA	Survey abandoned: CAMERA UNABLE TO PASS	00:00:35		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	31.3	5.0	5.0

Section Pictures - 07/07/2025 - UNK08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	UNK08X	SELWOOD EAASTLEIGH	



MH03 BR3_0-00m_095602.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH03 BR3



MH03 BR3_0-04m_095609.jpg, 00:00:01, 0.04 m
Water level, 5% of the vertical dimension



MH03 BR3_0-13m_095653.jpg, 00:00:31, 0.13 m
General remark, BACKDROP



MH03 BR3_0-14m_095719.jpg, 00:00:33, 0.14 m
Attached deposits, encrustation at 12 o'clock, 25% cross-sectional area loss, CAMERA UNABLE TO PASS



MH03 BR3_0-16m_095733.jpg, 00:00:35, 0.16 m
Survey abandoned, CAMERA UNABLE TO PASS

Abandoned section inspection

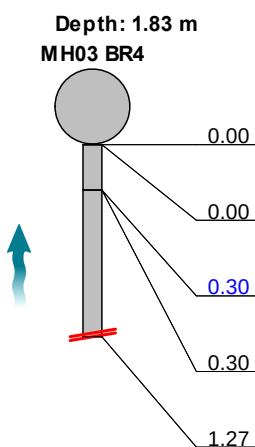


Item No. 12	Insp. No. 1	Date 07/07/25	Time 8:58	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK09X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK09
Road:	.	Inspected Length:	1.27 m	Upstream Pipe Depth:	
Location:		Total Length:	1.27 m	Downstream Node:	MH03 BR4
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.830 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: MH03 BR4	00:00:02		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
		0.30	JDM	Joint displaced, medium: FOULING	00:00:08		1 / 3
		0.30	LR	Line deviates right	00:00:13		
		1.27	SA	Survey abandoned: CAMERA UNABLE TO PASS BEND	00:00:24		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.8	1.0	1.0	1	2.0	1.6	2.0	3.0

Section Pictures - 07/07/2025 - UNK09X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	UNK09X	SELWOOD EAASTLEIGH	



MH03 BR4_0-00m_095845.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: MH03 BR4



MH03 BR4_0-00m_095853.jpg, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension



MH03 BR4_0-30m_095927.jpg, 00:00:08, 0.30 m
Joint displaced, medium, FOULING



MH03 BR4_0-30m_095940.jpg, 00:00:13, 0.30 m
Line deviates right



MH03 BR4_1-27m_100007.jpg, 00:00:24, 1.27 m
Survey abandoned, CAMERA UNABLE TO PASS BEND

Completed section inspection



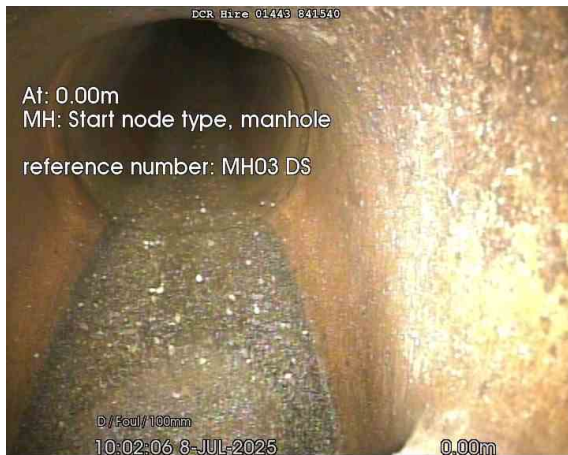
Item No. 13	Insp. No. 1	Date 07/07/25	Time 9:00	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR MH03 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	MH03 DS
Road:	.	Inspected Length:	4.59 m	Upstream Pipe Depth:	2.080 m
Location:		Total Length:	4.59 m	Downstream Node:	UNK10
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

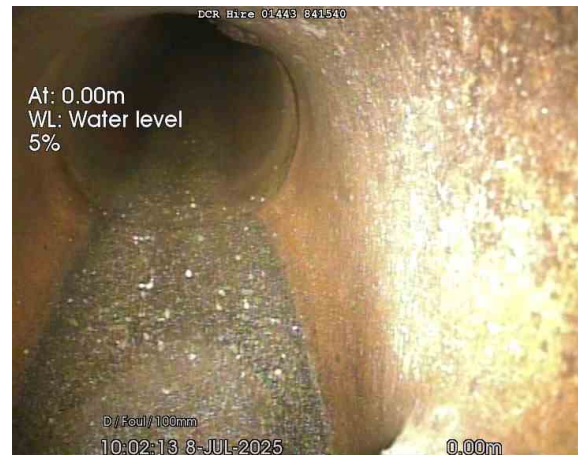
Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: 2.08 m MH03 DS 0.00 MH Start node, manhole, reference: MH03 DS 00:00:00 0.00 WL Water level, 5% of the vertical dimension 00:00:02 3.68 LL Line deviates left 00:00:26 4.59 BRF Finish node, major connection without manhole, reference: UNK10 00:00:35									
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - MH03 DSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Downstream	MH03 DSX	SELWOOD EAASTLEIGH	



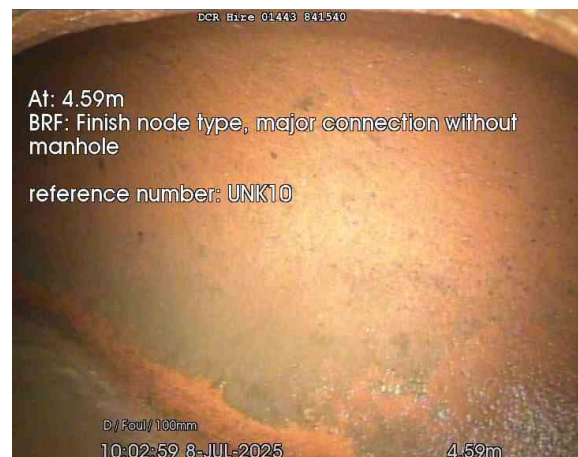
MH03 DS_0-00m_100206.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH03 DS



MH03 DS_0-00m_100213.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



MH03 DS_3-68m_100242.jpg, 00:00:26, 3.68 m
Line deviates left



MH03 DS_4-59m_100259.jpg, 00:00:35, 4.59 m
Finish node, major connection without manhole, reference: UNK10

Completed section inspection



Item No. 14	Insp. No. 1	Date 07/07/25	Time 9:08	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK11X
Operator A.B/M.F		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK11
Road:	.	Inspected Length:	10.54 m	Upstream Pipe Depth:	
Location:		Total Length:	10.54 m	Downstream Node:	MH04 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:92 Position [m] Code Observation MPEG Photo Grade

Depth: m
MH04 BR1



0.00

MH

Start node, manhole, reference: MH04 BR1

00:00:03

0.08

WL

Water level, 5% of the vertical dimension

00:00:04

9.82

LU

Line deviates up

00:00:50

10.54

BRF

Finish node, major connection without manhole, reference: UNK11

00:00:59

UNK11
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - UNK11X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
14	Upstream	UNK11X	SELWOOD EAASTLEIGH	



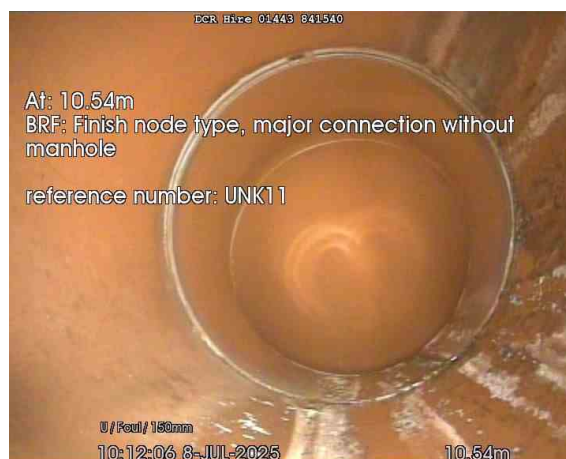
MH04 BR1_0-00m_101053.jpg, 00:00:03, 0.00 m
Start node, manhole, reference: MH04 BR1



MH04 BR1_0-08m_101101.jpg, 00:00:04, 0.08 m
Water level, 5% of the vertical dimension



MH04 BR1_9-82m_101152.jpg, 00:00:50, 9.82 m
Line deviates up



MH04 BR1_10-54m_101206.jpg, 00:00:59, 10.54 m
Finish node, major connection without manhole, reference: UNK11

Completed section inspection



Item No. 15	Insp. No. 1	Date 07/07/25	Time 8:12	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK12X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK12
Road:	.	Inspected Length:	19.02 m	Upstream Pipe Depth:	
Location:		Total Length:	19.02 m	Downstream Node:	MH04 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.920 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:165 Position [m] Code Observation MPEG Photo Grade

Depth: 0.92 m
MH04 US



0.14

MH

Start node, manhole, reference: MH04 US

00:00:01

0.16

WL

Water level, 5% of the vertical dimension

00:00:03

18.47

LU

Line deviates up

00:01:07

19.02

BRF

Finish node, major connection without manhole, reference: UNK12

00:01:09

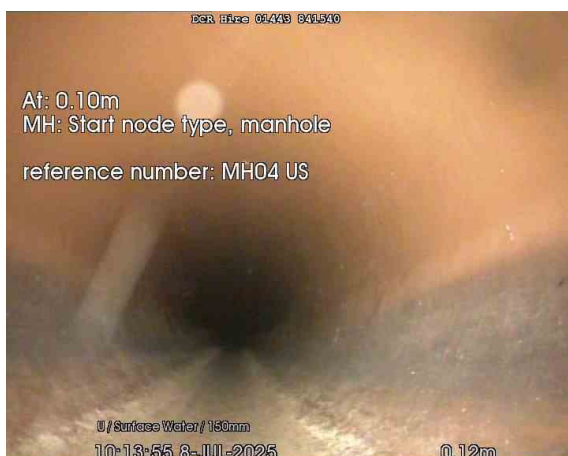
UNK12

Depth: m

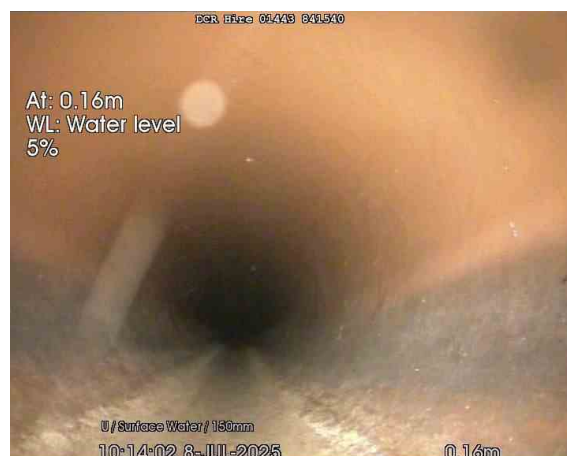
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - UNK12X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
15	Upstream	UNK12X	SELWOOD EAASTLEIGH	



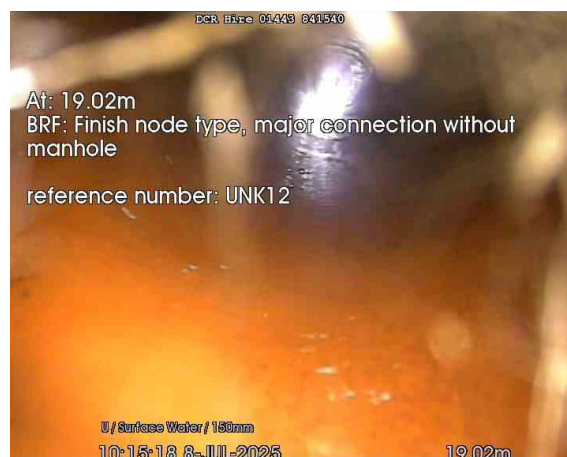
MH04 US_0-14m_101355.jpg, 00:00:01, 0.14 m
Start node, manhole, reference: MH04 US



MH04 US_0-16m_101402.jpg, 00:00:03, 0.16 m
Water level, 5% of the vertical dimension



MH04 US_18-47m_101510.jpg, 00:01:07, 18.47 m
Line deviates up



MH04 US_19-02m_101518.jpg, 00:01:09, 19.02 m
Finish node, major connection without manhole, reference: UNK12

Completed section inspection



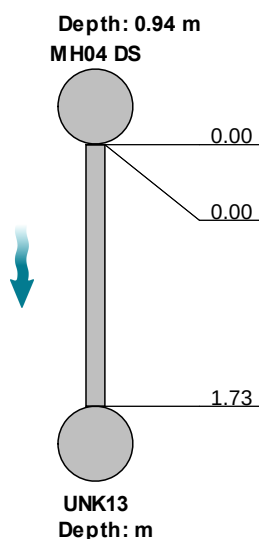
Item No. 16	Insp. No. 1	Date 07/07/25	Time 9:15	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR MH04 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	MH04 DS
Road:	.	Inspected Length:	1.73 m	Upstream Pipe Depth:	0.940 m
Location:		Total Length:	1.73 m	Downstream Node:	UNK13
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation MPEG Photo Grade



0.00

MH

Start node, manhole, reference: MH04 DS

00:00:01

0.00

WL

Water level, 5% of the vertical dimension

00:00:03

1.73

MHF

Finish node, manhole, reference: MH UTL

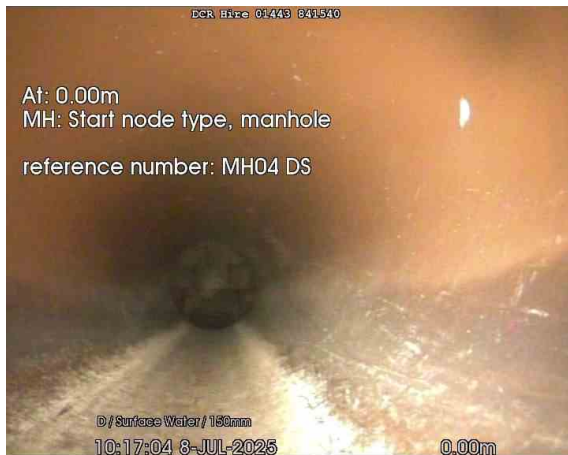
00:00:08

UNK13
Depth: m

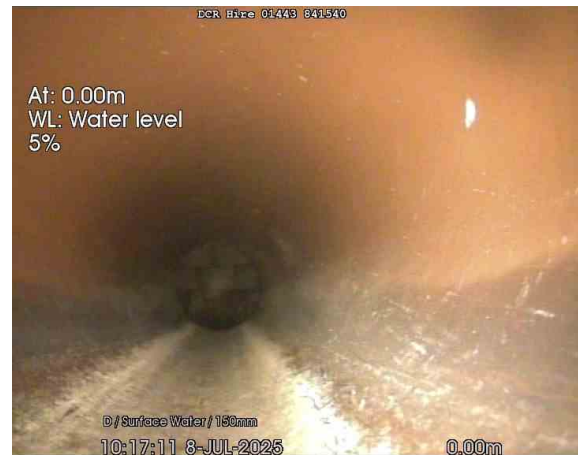
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - MH04 DSX

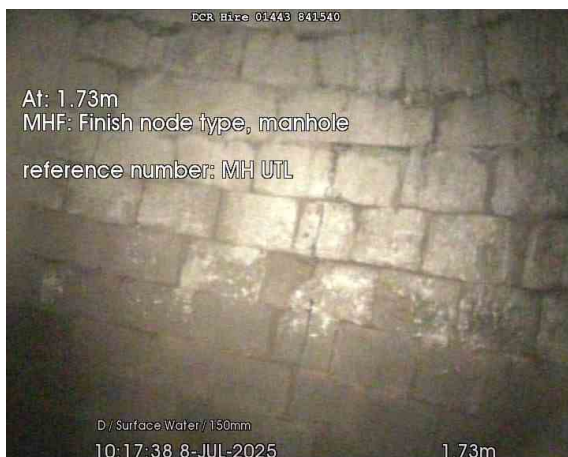
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
16	Downstream	MH04 DSX	SELWOOD EAASTLEIGH	



MH04 DS_0-00m_101704.jpg, 00:00:01, 0.00 m
Start node, manhole, reference: MH04 DS



MH04 DS_0-00m_101711.jpg, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension



MH04 DS_1-73m_101738.jpg, 00:00:08, 1.73 m
Finish node, manhole, reference: MH UTL

Abandoned section inspection

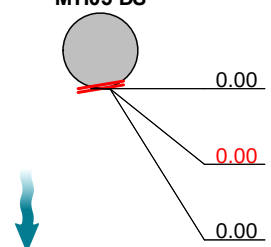


Item No. 17	Insp. No. 1	Date 07/07/25	Time 9:17	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR MH05 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Dow nstream	Upstream Node:	MH05 DS
Road:	.	Inspected Length:	0.00 m	Upstream Pipe Depth:	0.980 m
Location:		Total Length:	0.00 m	Downstream Node:	UNK13
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

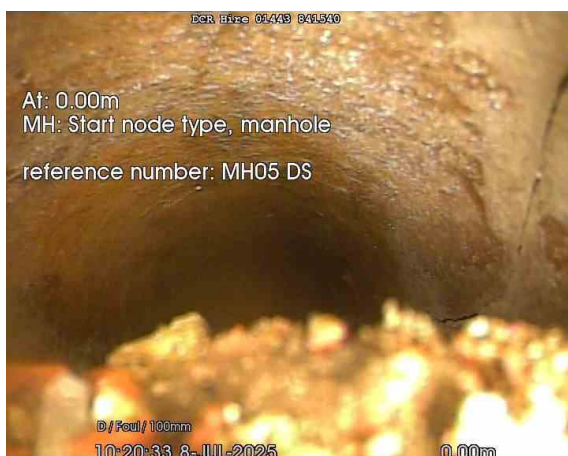
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.98 m MH05 DS 							
		0.00	MH	Start node, manhole, reference: MH05 DS	00:00:00		
		0.00	DER	Settled deposits, coarse, 90% cross-sectional area loss	00:00:01		5
		0.00	SA	Survey abandoned: CAMERA UNABLE TO TRAVEL	00:00:05		

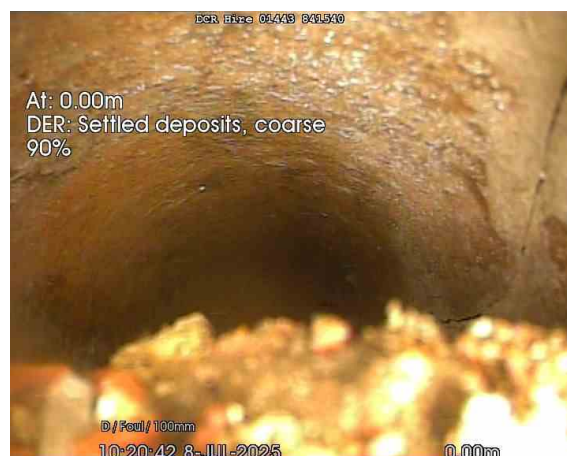
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	0.0	10.0	5.0

Section Pictures - 07/07/2025 - MH05 DSX

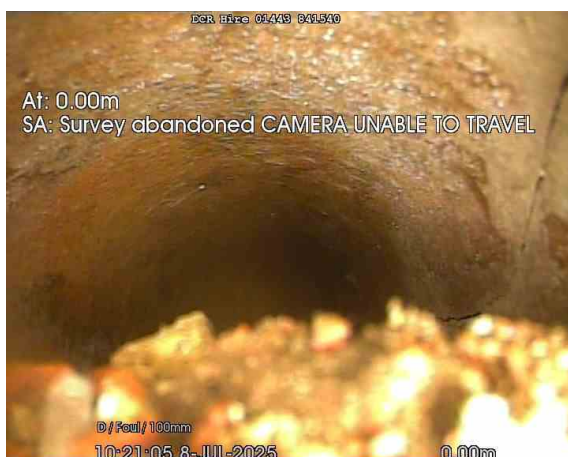
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
17	Downstream	MH05 DSX	SELWOOD EAASTLEIGH	



MH05 DS_0-00m_102033.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH05 DS



MH05 DS_0-00m_102042.jpg, 00:00:01, 0.00 m
Settled deposits, coarse, 90% cross-sectional area loss



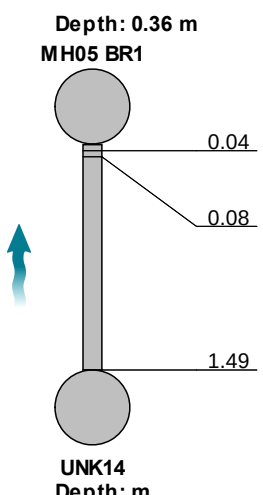
MH05 DS_0-00m_102105.jpg, 00:00:05, 0.00 m
Survey abandoned, CAMERA UNABLE TO TRAVEL

Completed section inspection



Item No. 18	Insp. No. 1	Date 07/07/25	Time 9:21	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK14X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

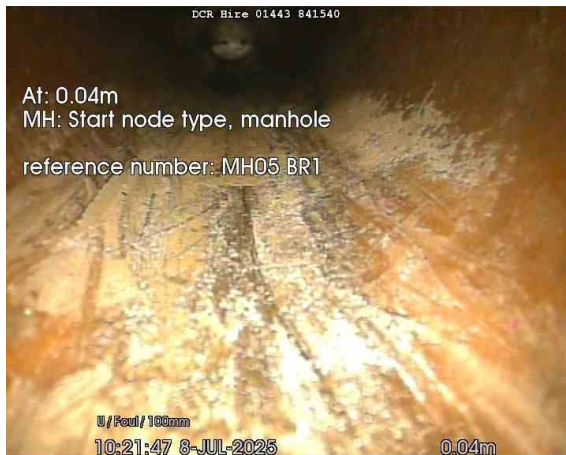
Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK14
Road:	.	Inspected Length:	1.49 m	Upstream Pipe Depth:	
Location:		Total Length:	1.49 m	Downstream Node:	MH05 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.360 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.04	MH	Start node, manhole, reference: MH05 BR1	00:00:00		
		0.08	WL	Water level, 5% of the vertical dimension	00:00:02		
		1.49	BRF	Finish node, major connection without manhole, reference: UNK14	00:00:13		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - UNK14X

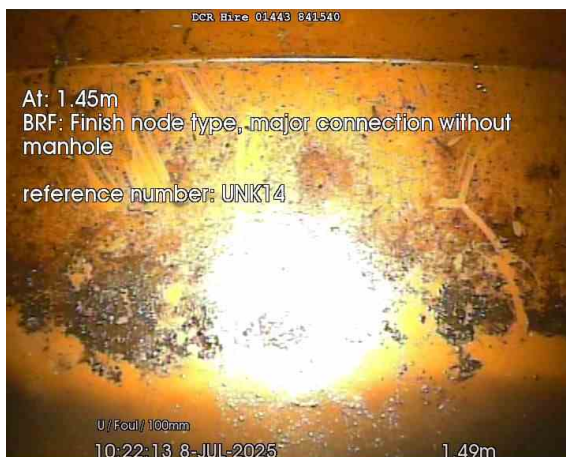
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
18	Upstream	UNK14X	SELWOOD EAASTLEIGH	



MH05 BR1_0-04m_102147.jpg, 00:00:00, 0.04 m
Start node, manhole, reference: MH05 BR1



MH05 BR1_0-08m_102155.jpg, 00:00:02, 0.08 m
Water level, 5% of the vertical dimension



MH05 BR1_1-49m_102213.jpg, 00:00:13, 1.49 m
Finish node, major connection without manhole, reference: UNK14

Completed section inspection



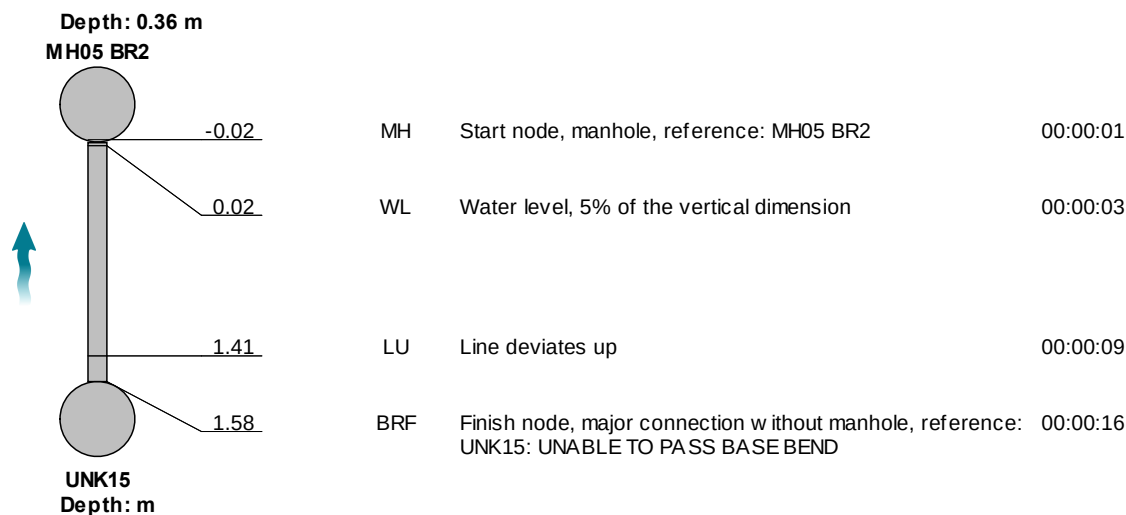
Item No. 19	Insp. No. 1	Date 07/07/25	Time 9:22	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK15X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK15
Road:	.	Inspected Length:	1.58 m	Upstream Pipe Depth:	
Location:		Total Length:	1.58 m	Downstream Node:	MH05 BR2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.360 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

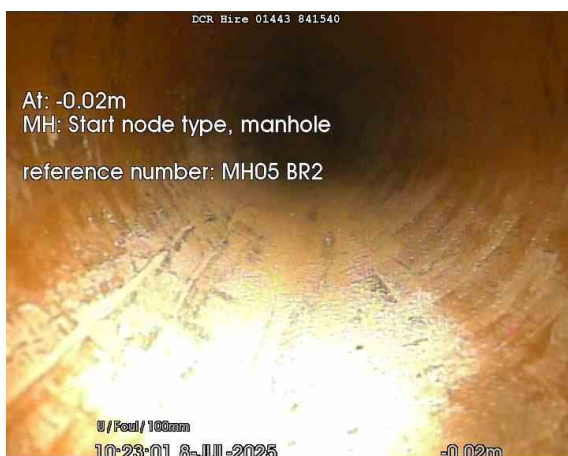
Scale: 1:50 Position [m] Code Observation MPEG Photo Grade



STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - UNK15X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
19	Upstream	UNK15X	SELWOOD EAASTLEIGH	



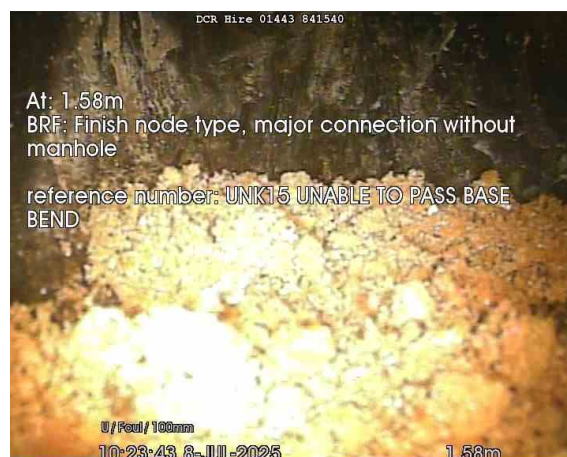
MH05 BR2_-0-02m_102301.jpg, 00:00:01, -0.02 m
Start node, manhole, reference: MH05 BR2



MH05 BR2_0-02m_102308.jpg, 00:00:03, 0.02 m
Water level, 5% of the vertical dimension



MH05 BR2_1-41m_102319.jpg, 00:00:09, 1.41 m
Line deviates up



MH05 BR2_1-58m_102343.jpg, 00:00:16, 1.58 m
Finish node, major connection without manhole, reference:
UNK15, UNABLE TO PASS BASE BEND

Combined section inspection

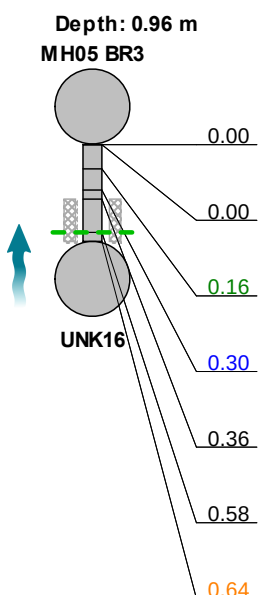


Item No. 20	Insp. No. 1	Date 07/07/25	Time 9:23	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK16X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK16
Road:	.	Inspected Length:	0.64 m	Upstream Pipe Depth:	
Location:		Total Length:	0.64 m	Downstream Node:	MH05 BR3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.960 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

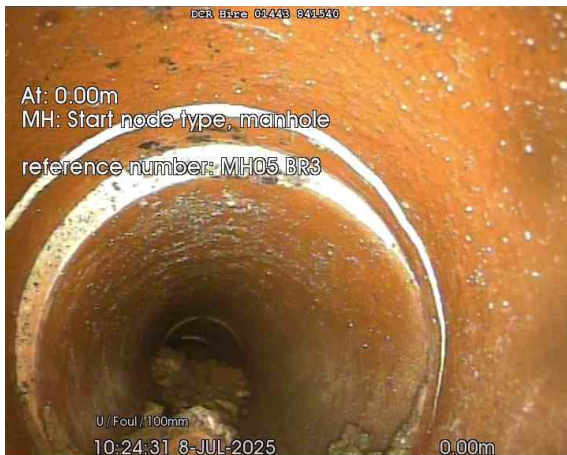
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
						
	0.00	MH	Start node, manhole, reference: MH05 BR3	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.16	CC	Crack, circumferential at 12 o'clock	00:00:04		2 / 2
	0.30	JDM	Joint displaced, medium	00:00:08		1 / 3
	0.36	S01	DER Settled deposits, coarse, 75% cross-sectional area loss, start	00:00:10		
	0.58	SA	Survey abandoned: UNABLE TO PASS DEBRIS	00:00:21		
	0.64	F01	DER Settled deposits, coarse, 75% cross-sectional area loss, finish	00:00:19		4

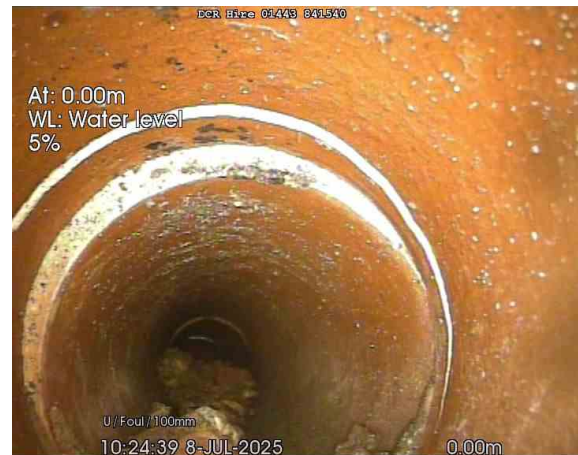
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	10.0	17.2	11.0	2.0	3	10.0	17.2	11.0	5.0

Section Pictures - 07/07/2025 - UNK16X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
20	Upstream	UNK16X	SELWOOD EAASTLEIGH	



MH05 BR3_0-00m_102431.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH05 BR3



MH05 BR3_0-00m_102439.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



MH05 BR3_0-16m_102447.jpg, 00:00:04, 0.16 m
Crack, circumferential at 12 o'clock



MH05 BR3_0-30m_102458.jpg, 00:00:08, 0.30 m
Joint displaced, medium



MH05 BR3_0-36m_102511.jpg, 00:00:10, 0.36 m
Settled deposits, coarse, 75% cross-sectional area loss, start



MH05 BR3_0-58m_102545.jpg, 00:00:21, 0.58 m
Survey abandoned, UNABLE TO PASS DEBRIS

Abandoned section inspection



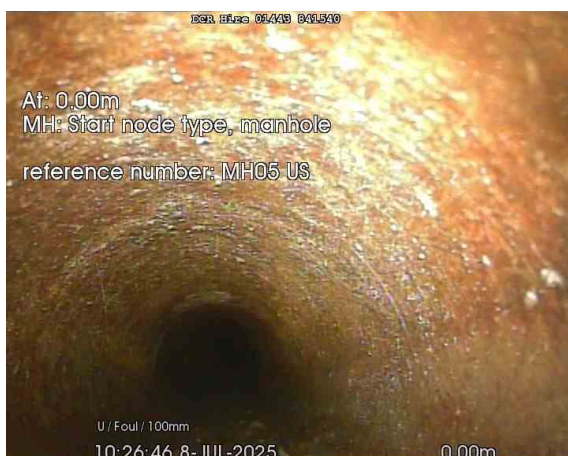
Item No. 21	Insp. No. 1	Date 07/07/25	Time 9:26	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK17X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK17
Road:	.	Inspected Length:	16.05 m	Upstream Pipe Depth:	
Location:		Total Length:	16.05 m	Downstream Node:	MH05 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.960 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

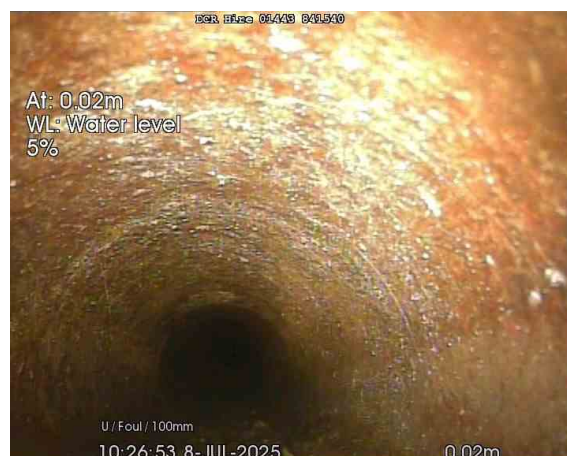
Scale:	1:139	Position [m]	Code	Observation	MPEG	Photo	Grade		
Depth: 0.96 m MH05 US									
0.00	MH	Start node, manhole, reference: MH05 US		00:00:00					
0.02	WL	Water level, 5% of the vertical dimension		00:00:02					
2.53	JN	Junction at 9 o'clock, 100mm dia		00:00:15					
11.08	JN	Junction at 9 o'clock, 100mm dia		00:00:39					
15.59	DER	Settled deposits, coarse, 50% cross-sectional area loss		00:00:55			4		
16.05	SA	Survey abandoned: UNABLE TO PASS DEBRIS		00:01:01					
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	8.0	0.5	8.0	4.0

Section Pictures - 07/07/2025 - UNK17X

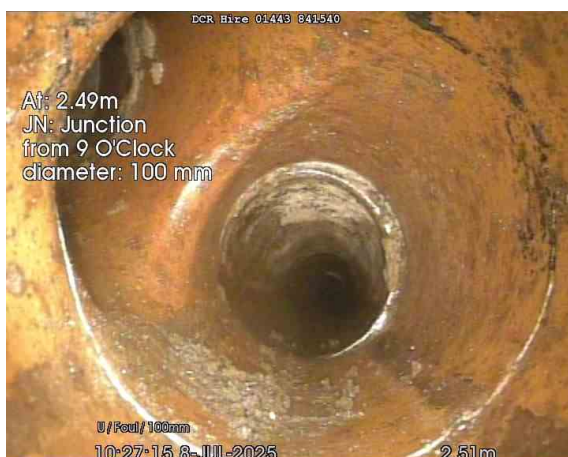
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
21	Upstream	UNK17X	SELWOOD EAASTLEIGH	



MH05 US_0-00m_102646.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH05 US



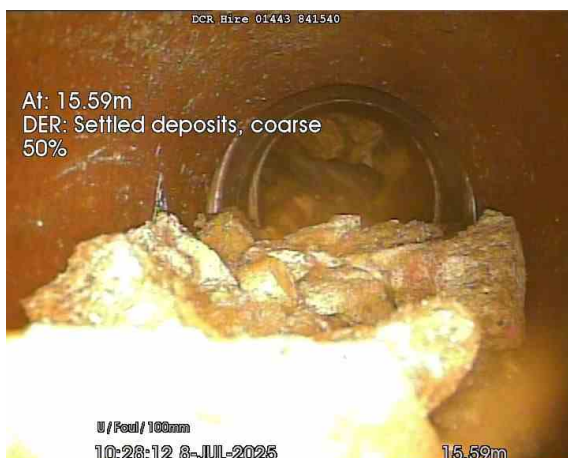
MH05 US_0-02m_102653.jpg, 00:00:02, 0.02 m
Water level, 5% of the vertical dimension



MH05 US_2-53m_102715.jpg, 00:00:15, 2.53 m
Junction at 9 o'clock, 100mm dia



MH05 US_11-08m_102745.jpg, 00:00:39, 11.08 m
Junction at 9 o'clock, 100mm dia



MH05 US_15-59m_102812.jpg, 00:00:55, 15.59 m
Settled deposits, coarse, 50% cross-sectional area loss



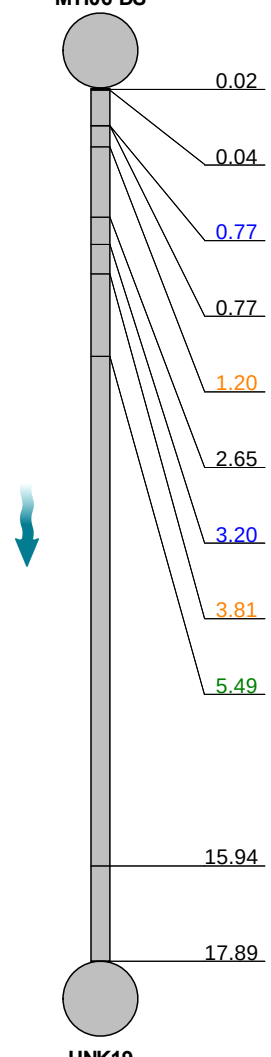
MH05 US_16-05m_102828.jpg, 00:01:01, 16.05 m
Survey abandoned, UNABLE TO PASS DEBRIS

Completed section inspection



Item No. 23	Insp. No. 1	Date 07/07/25	Time 10:32	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR MH06 DSX
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	MH06 DS
Road:	.	Inspected Length:	17.89 m	Upstream Pipe Depth:	0.930 m
Location:		Total Length:	17.89 m	Downstream Node:	UNK19
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale: 1:155	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.93 m MH06 DS 						
	0.02	MH	Start node, manhole, reference: MH06 DS	00:00:00		
	0.04	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.77	JDM	Joint displaced, medium	00:00:12		1 / 3
	0.77	LL	Line deviates left	00:00:15		
	1.20	JDL	Joint displaced, large	00:00:18		1 / 4
	2.65	LL	Line deviates left	00:00:27		
	3.20	JDM	Joint displaced, medium	00:00:32		1 / 3
	3.81	JDL	Joint displaced, large	00:00:36		1 / 4
	5.49	CC	Crack, circumferential at 12 o'clock	00:00:46		2 / 2
	15.94	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:01:22		
	17.89	MHF	Finish node, manhole, reference: BMH01	00:01:32		
UNK19 Depth: m						

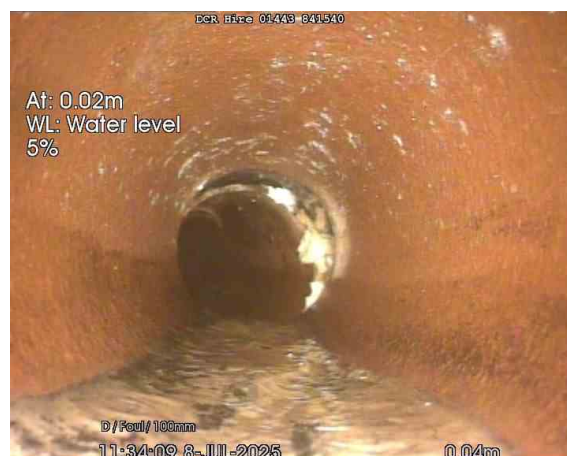
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
5	10.0	0.9	16.0	2.0	5	5.0	0.8	15.0	4.0

Section Pictures - 07/07/2025 - MH06 DSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
23	Downstream	MH06 DSX	SELWOOD EAASTLEIGH	



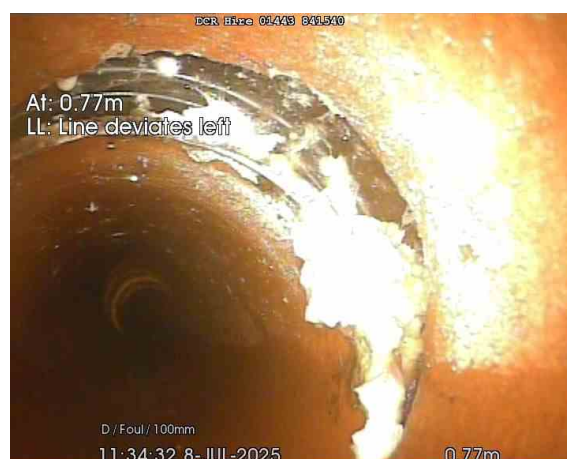
MH06 DS_0-02m_113402.jpg, 00:00:00, 0.02 m
Start node, manhole, reference: MH06 DS



MH06 DS_0-04m_113409.jpg, 00:00:02, 0.04 m
Water level, 5% of the vertical dimension



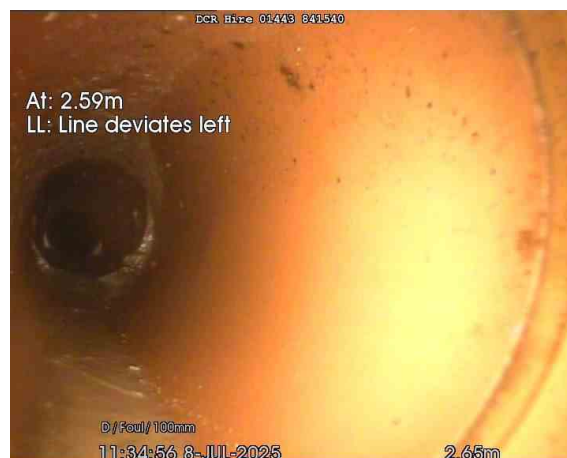
MH06 DS_0-77m_113426.jpg, 00:00:12, 0.77 m
Joint displaced, medium



MH06 DS_0-77m_113432.jpg, 00:00:15, 0.77 m
Line deviates left



MH06 DS_1-20m_113442.jpg, 00:00:18, 1.20 m
Joint displaced, large



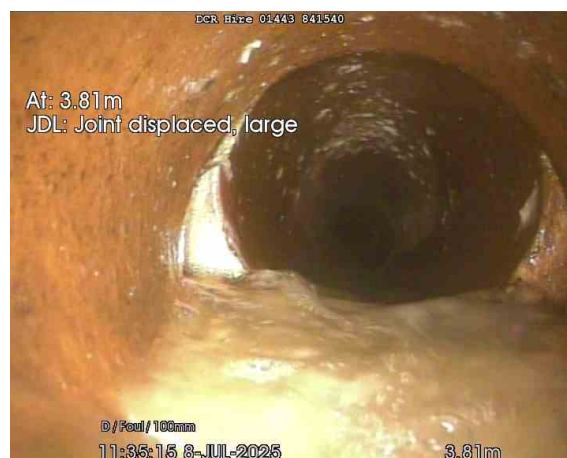
MH06 DS_2-65m_113456.jpg, 00:00:27, 2.65 m
Line deviates left

Section Pictures - 07/07/2025 - MH06 DSX

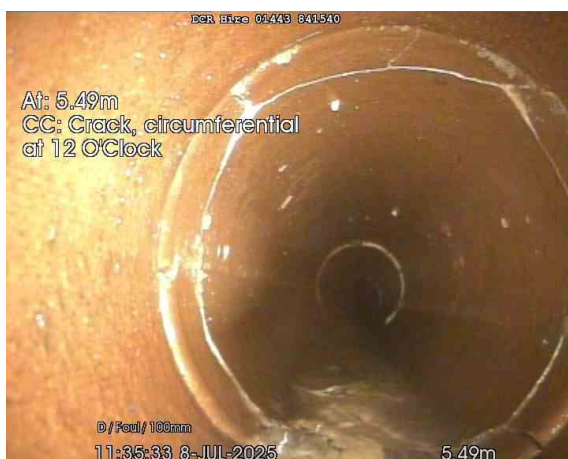
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
23	Downstream	MH06 DSX	SELWOOD EAASTLEIGH	



MH06 DS_3-20m_113505.jpg, 00:00:32, 3.20 m
Joint displaced, medium



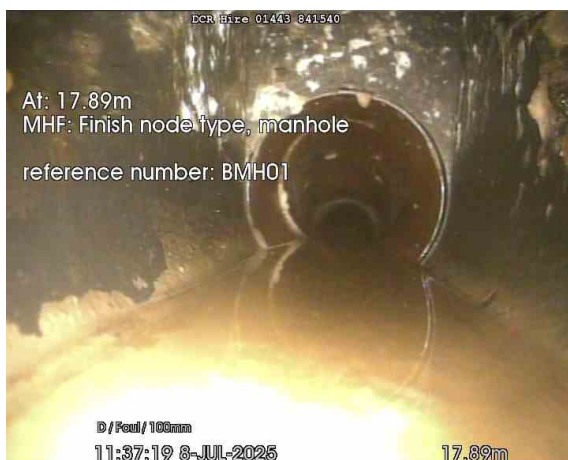
MH06 DS_3-81m_113515.jpg, 00:00:36, 3.81 m
Joint displaced, large



MH06 DS_5-49m_113533.jpg, 00:00:46, 5.49 m
Crack, circumferential at 12 o'clock



MH06 DS_15-94m_113617.jpg, 00:01:22, 15.94 m
Pipe material changes to polyvinyl chloride at this point



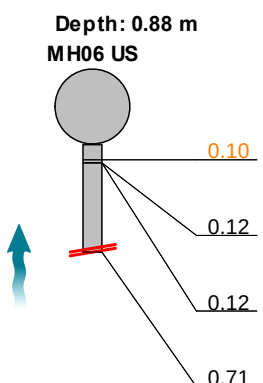
MH06 DS_17-89m_113719.jpg, 00:01:32, 17.89 m
Finish node, manhole, reference: BMH01

Abandoned section inspection



Item No. 24	Insp. No. 1	Date 07/07/25	Time 9:37	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK19X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK19
Road:	.	Inspected Length:	0.71 m	Upstream Pipe Depth:	
Location:		Total Length:	0.71 m	Downstream Node:	MH06 US
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.880 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:					
Recommendations:					

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.10	DEX	Settled deposits, other, 75% cross-sectional area loss: FOULING	00:00:06		4
		0.12	MH	Start node, manhole, reference: MH06 US	00:00:02		
		0.12	WL	Water level, 30% of the vertical dimension	00:00:04		
		0.71	SA	Survey abandoned: UNABLE TO PASS DEBRIS	00:00:16		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	8.0	11.3	8.0	5.0

Section Pictures - 07/07/2025 - UNK19X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
24	Upstream	UNK19X	SELWOOD EAASTLEIGH	



MH06 US_0-10m_113838.jpg, 00:00:06, 0.10 m
Settled deposits, other, 75% cross-sectional area loss,
FOULING



MH06 US_0-12m_113812.jpg, 00:00:02, 0.12 m
Start node, manhole, reference: MH06 US



MH06 US_0-12m_113821.jpg, 00:00:04, 0.12 m
Water level, 30% of the vertical dimension



MH06 US_0-71m_113918.jpg, 00:00:16, 0.71 m
Survey abandoned, UNABLE TO PASS DEBRIS

Completed section inspection



Item No. 25	Insp. No. 1	Date 07/07/25	Time 9:39	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK20X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK20
Road:	.	Inspected Length:	5.40 m	Upstream Pipe Depth:	
Location:		Total Length:	5.40 m	Downstream Node:	MH06 BR1
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.790 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation MPEG Photo Grade

Depth: 0.79 m
MH06 BR1



0.00

MH

Start node, manhole, reference: MH06 BR1

00:00:02

0.00

WL

Water level, 5% of the vertical dimension

00:00:04

5.40

MHF

Finish node, manhole, reference: MH OSA 2: IN FIRE
ESCAPE NO ACCESS

00:00:19

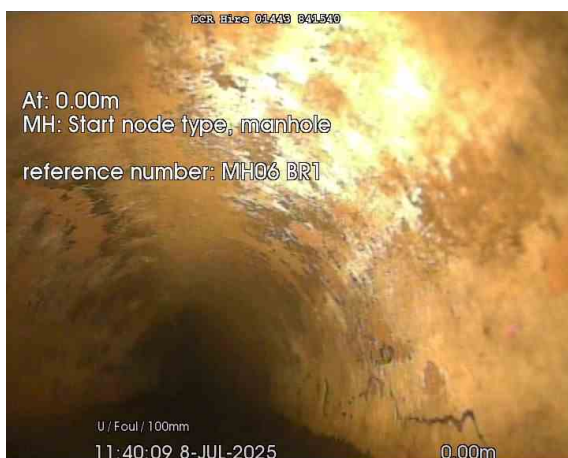
UNK20

Depth: m

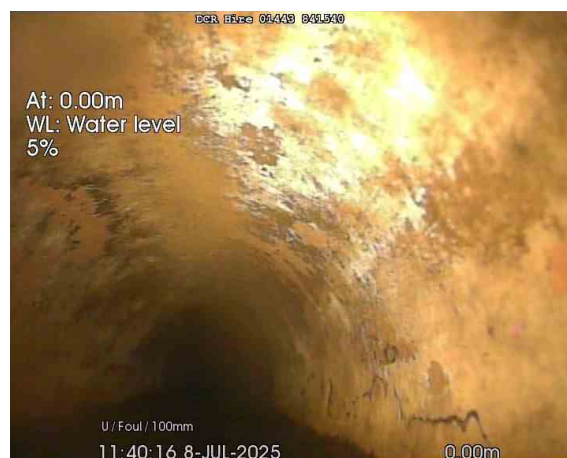
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - UNK20X

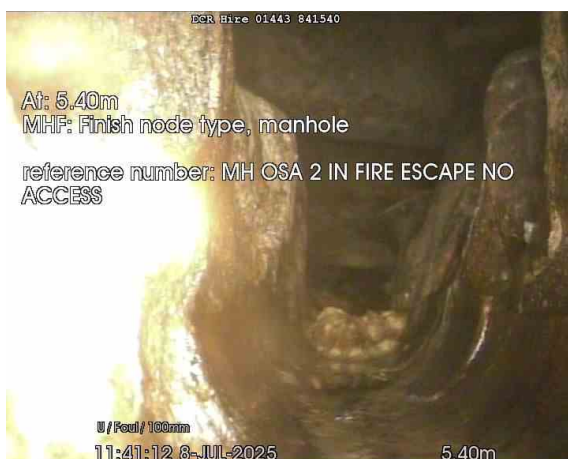
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
25	Upstream	UNK20X	SELWOOD EAASTLEIGH	



MH06 BR1_0-00m_114009.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: MH06 BR1



MH06 BR1_0-00m_114016.jpg, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension



MH06 BR1_5-40m_114112.jpg, 00:00:19, 5.40 m
Finish node, manhole, reference: MH OSA 2, IN FIRE ESCAPE
NO ACCESS

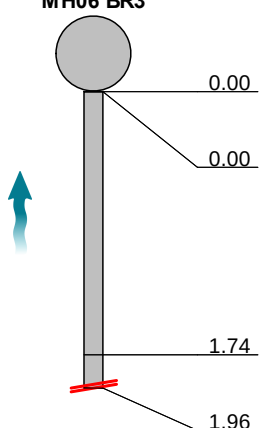
Abandoned section inspection



Item No. 26	Insp. No. 1	Date 07/07/25	Time 9:43	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR UNK21X
Operator A.B/M.F		Vehicle Not Specified		Camera Pushrod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

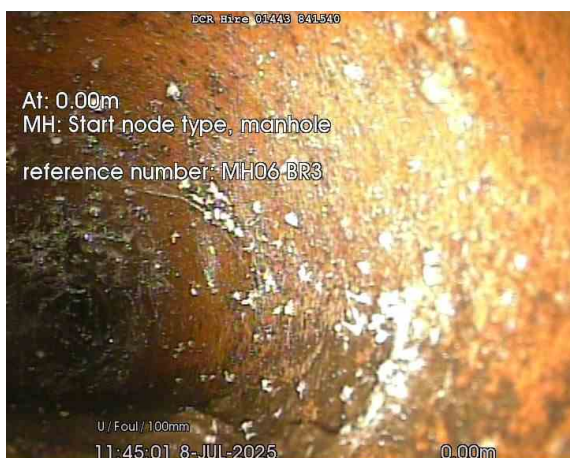
Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK21
Road:	.	Inspected Length:	1.96 m	Upstream Pipe Depth:	
Location:		Total Length:	1.96 m	Downstream Node:	MH06 BR3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.820 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade												
Depth: 0.82 m MH06 BR3  <table><tr><td>MH</td><td>Start node, manhole, reference: MH06 BR3</td><td>00:00:00</td></tr><tr><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:00:02</td></tr><tr><td>LU</td><td>Line deviates up</td><td>00:00:12</td></tr><tr><td>SA</td><td>Survey abandoned: CAPPED OFF</td><td>00:00:18</td></tr></table>								MH	Start node, manhole, reference: MH06 BR3	00:00:00	WL	Water level, 5% of the vertical dimension	00:00:02	LU	Line deviates up	00:00:12	SA	Survey abandoned: CAPPED OFF	00:00:18
MH	Start node, manhole, reference: MH06 BR3	00:00:00																	
WL	Water level, 5% of the vertical dimension	00:00:02																	
LU	Line deviates up	00:00:12																	
SA	Survey abandoned: CAPPED OFF	00:00:18																	
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade										
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0										

Section Pictures - 07/07/2025 - UNK21X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
26	Upstream	UNK21X	SELWOOD EAASTLEIGH	



MH06 BR3_0-00m_114501.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH06 BR3



MH06 BR3_0-00m_114508.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension



MH06 BR3_1-74m_114522.jpg, 00:00:12, 1.74 m
Line deviates up



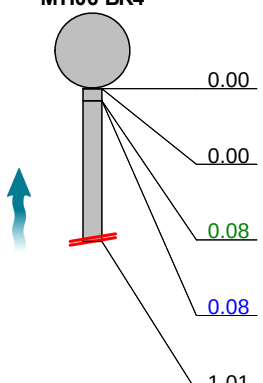
MH06 BR3_1-96m_114540.jpg, 00:00:18, 1.96 m
Survey abandoned, CAPPED OFF

Abandoned section inspection



Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
27	1	07/07/25	10:45	SELWOOD EASTLEIGH	No Rain Or Snow	No	UNK22X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A.B/M.F		Not Specified		Pushrod	Not Specified	Not Specified	1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	UNK22
Road:	.	Inspected Length:	1.01 m	Upstream Pipe Depth:	
Location:		Total Length:	1.01 m	Downstream Node:	MH06 BR4
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.800 m
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Flow Control:	No flow control		Material:	Vitrified clay	
Year Constructed:	Not Specified		Lining Type:	No Lining	
Inspection Purpose:	Sample condition survey		Lining Material:	No Lining	
Comments:					
Recommendations:					

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: MH06 BR4	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
		0.08	CC	Crack, circumferential from 8 o'clock to 3 o'clock	00:00:05		2 / 2
		0.08	JDM	Joint displaced, medium	00:00:07		1 / 3
		1.01	SA	Survey abandoned: CAPPED OFF	00:00:16		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	11.0	10.9	11.0	2.0	2	3.0	3.0	3.0	4.0

Section Pictures - 07/07/2025 - UNK22X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
27	Upstream	UNK22X	SELWOOD EAASTLEIGH	



MH06 BR4_0-00m_114704.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH06 BR4



MH06 BR4_0-00m_114711.jpg, 00:00:01, 0.00 m
Water level, 5% of the vertical dimension



MH06 BR4_0-08m_114722.jpg, 00:00:05, 0.08 m
Crack, circumferential from 8 o'clock to 3 o'clock



MH06 BR4_0-08m_114729.jpg, 00:00:07, 0.08 m
Joint displaced, medium



MH06 BR4_1-01m_114747.jpg, 00:00:16, 1.01 m
Survey abandoned, CAPPED OFF

Completed section inspection

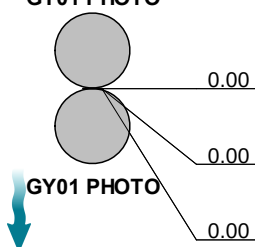


Item No. 1	Insp. No. 1	Date 07/07/25	Time 9:35	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR GY01 PHOTOX
Operator A.B/M.F		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Downstream	Upstream Node:	GY01 PHOTO
Road:	.	Inspected Length:	0.00 m	Upstream Pipe Depth:	
Location:		Total Length:	0.00 m	Downstream Node:	GY01 PHOTO
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m GY01 PHOTO 						
	0.00	GY	Start node, gully, reference: GY01 PHOTO	00:00:00		
	0.00	REM	General remark: VIEW ONLY	00:00:02		
	0.00	GYF	Finish node, gully, reference: GY01 PHOTO	00:00:04		
Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - GY01 PHOTOX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	GY01 PHOTOX	SELWOOD EAASTLEIGH	



GY01 PHOTO_0-00m_103644.jpg, 00:00:00, 0.00 m
Start node, gully, reference: GY01 PHOTO



GY01 PHOTO_0-00m_103701.jpg, 00:00:02, 0.00 m
General remark, VIEW ONLY



GY01 PHOTO_0-00m_103709.jpg, 00:00:04, 0.00 m
Finish node, gully, reference: GY01 PHOTO

Completed section inspection

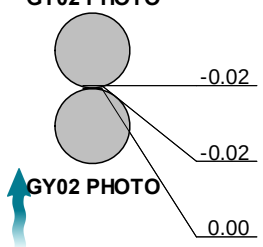


Item No. 2	Insp. No. 1	Date 07/07/25	Time 9:38	Client's Job Ref SELWOOD EASTLEIGH	Weather No Rain Or Snow	Pre Cleaned No	PLR GY02 PHOTOX
Operator A.B/M.F		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Eastleigh	Inspection Direction:	Upstream	Upstream Node:	GY02 PHOTO
Road:	.	Inspected Length:	0.00 m	Upstream Pipe Depth:	
Location:		Total Length:	0.00 m	Downstream Node:	GY02 PHOTO
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

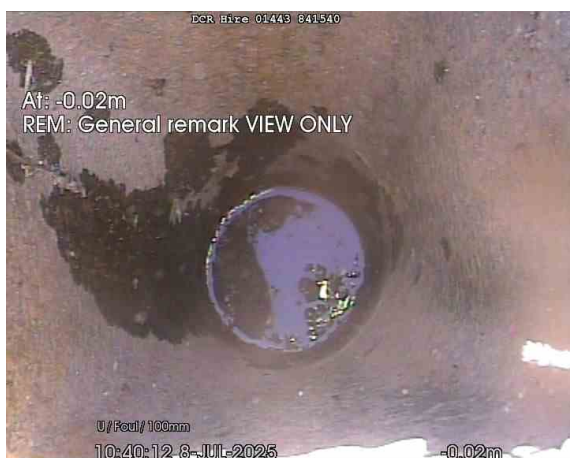
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m GY02 PHOTO  Depth: m						
	-0.02	REM	General remark: VIEW ONLY	00:00:01		
	-0.02	GYF	Finish node, gully, reference: GY02 PHOTO	00:00:03		
	0.00	GY	Start node, gully, reference: GY02 PHOTO	00:00:00		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 07/07/2025 - GY02 PHOTOX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	GY02 PHOTOX	SELWOOD EAASTLEIGH	



GY02 PHOTO_-0-02m_104012.jpg, 00:00:01, -0.02 m
General remark, VIEW ONLY



GY02 PHOTO_-0-02m_104019.jpg, 00:00:03, -0.02 m
Finish node, gully, reference: GY02 PHOTO



GY02 PHOTO_0-00m_103953.jpg, 00:00:00, 0.00 m
Start node, gully, reference: GY02 PHOTO

Lucion

Client

Appendix E

Greenfield Runoff Rate Calculation

Scott White and Hookins		Page 1
St Nicholas House St Nicholas Road Sutton SM1 1EL		
Date 31/10/2025 16:56 File	Designed by tkillingback Checked by	
Micro Drainage		Source Control 2020.1.3
<u>ICP SUDS Mean Annual Flood</u> Input Return Period (years) 2 Soil 0.450 Area (ha) 0.380 Urban 0.000 SAAR (mm) 800 Region Number Region 7 Results 1/s QBAR Rural 2.0 QBAR Urban 2.0 Q2 years 1.7 Q1 year 1.7 Q30 years 4.4 Q100 years 6.2		
©1982-2020 Innovyze		

Appendix F

Surface Water Drainage Design Calculations

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S7	0.021	1.350	Type C	34.800	33.300	1.350	443286.144	120355.379
Perm Pav	0.041	1.350	Type C	34.650	33.800	0.700	443285.323	120340.464
S08	0.000	1.350	Type C	34.800	33.150	1.500	443281.996	120341.900
S11	0.000	1.200	Type B	34.800	32.980	1.670	443264.575	120347.300
S1	0.023	1.350	Type C	34.800	33.980	0.670	443268.476	120382.190
S2	0.026	1.350	Type C	34.800	33.720	0.930	443260.712	120356.801
Tank	0.000	1.200	Type B	34.800	32.900	1.750	443258.387	120349.218
S3	0.000	1.200	Type B	34.800	32.800	1.850	443253.062	120351.114
S4	0.000	1.200	Type B	34.800	32.720	1.930	443250.985	120358.740
S5	0.000	1.200	Type B	34.800	32.690	1.960	443248.201	120360.356
S6	0.000	1.200	Type B	34.800	32.490	2.160	443253.474	120378.877
Existing	0.000	1.350	Type C	31.690	31.090	0.450	443247.124	120381.119

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	S7	33.300	S08	33.150	Circ	0.15mØ	14.102	94.0	0.600	1.350	1.500
2.000	Perm Pav	33.800	S08	33.150	Circ	0.15mØ	3.623	5.6	0.600	0.700	1.500
1.001	S08	33.150	S11	32.980	Circ	0.15mØ	18.239	107.3	0.600	1.500	1.670
1.002	S11	32.980	Tank	32.900	Circ	0.15mØ	6.479	81.0	0.600	1.670	1.750
3.000	S1	33.980	S2	33.720	Circ	0.15mØ	26.550	102.1	0.600	0.670	0.930
3.001	S2	33.720	Tank	32.900	Circ	0.15mØ	7.931	9.7	0.600	0.930	1.750
1.003	Tank	32.900	S3	32.800	Circ	0.15mØ	5.652	56.5	0.600	1.750	1.850
1.004	S3	32.800	S4	32.720	Circ	0.15mØ	7.904	98.8	0.600	1.850	1.930
1.005	S4	32.720	S5	32.690	Circ	0.15mØ	3.219	107.3	0.600	1.930	1.960
1.006	S5	32.690	S6	32.490	Circ	0.15mØ	19.257	96.3	0.600	1.960	2.160
1.007	S6	32.490	Existing	31.090	Circ	0.15mØ	6.734	4.8	0.600	2.160	0.450

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
Permeable Paving1	Perm Pav	66.218	34.650	34.120	0.00000000	2.00	443287.220	120339.724

Outfall Details

Outfall Manhole Existing : Free Discharge

Flow Control Details

Controls within Manhole Perm Pav

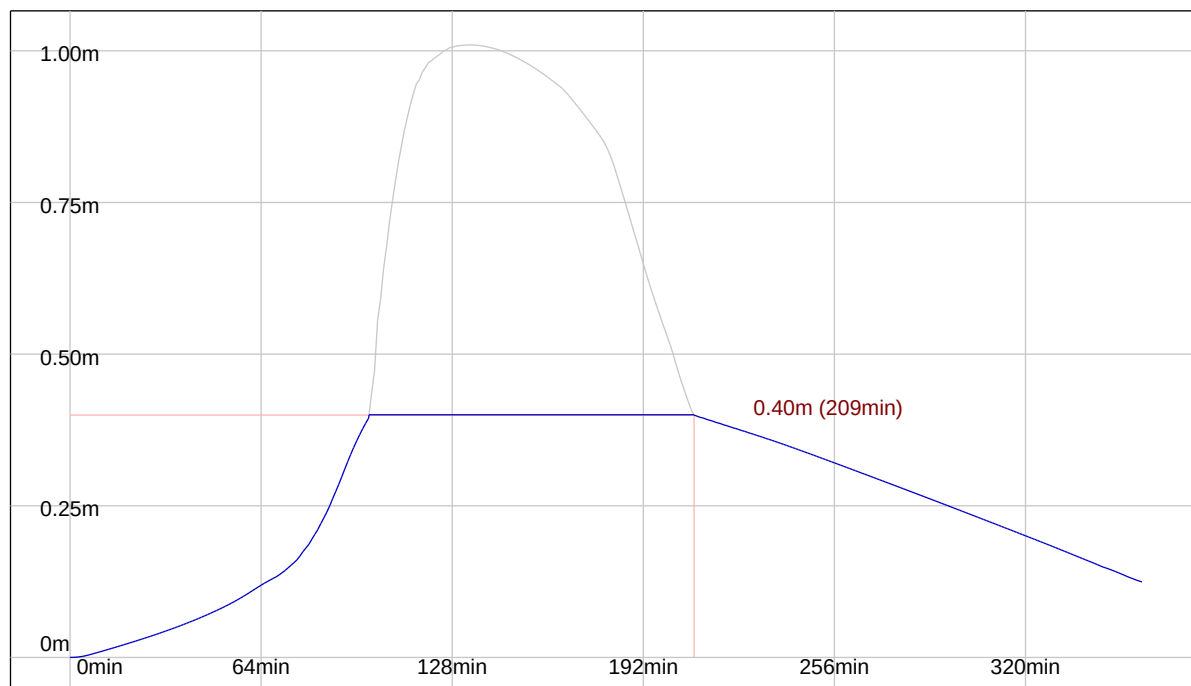
Orifice Control

Invert Offset (m)	Orifice Diameter (m)	Discharge Coeff
33.900	0.350	0.600

Tank Structure at Manhole Tank

Tank Invert (m)	Tank Height (m)	Porosity Ratio (%)	Area (m2)	Effective Area (m2) Area x Porosity Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
32.900	0.400	95.00	60.000	57.000	22.800	0.00000000	0.00000000	2.00

Tank at Tank (100Yr+45% 180Min Summer)

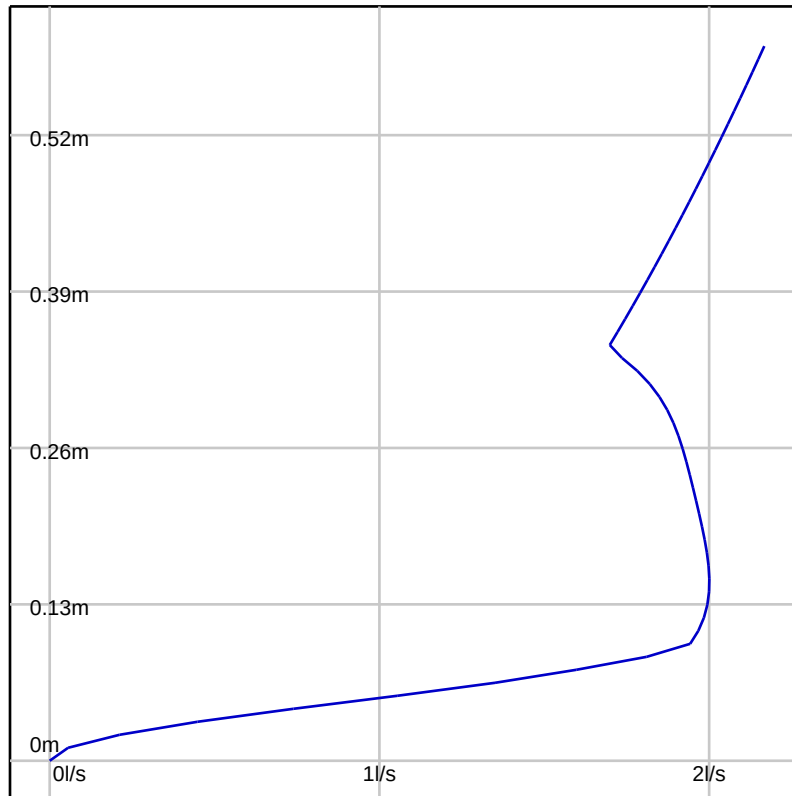


Controls within Manhole S3

Hydro-Brake® Optimum Control at Manhole S3

Model Ref	Design Depth (m)	Design Flow (l/s)	Depth Above Invert (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0075-2000-0500-2000	0.500	2.000	0.000	0.148	2.001	0.343	1.692

Hydro-Brake® Optimum Control at S3



Simulation Settings

FSR: M5-60=20.00, R=0.35, Locale=England and Wales

Summer (Cv: 0.75)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080

Return Periods (yrs) + Climate Change: (100, +45%)

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
100Yr+45% 15Min Summer	136.560	0.00	0.00	100Yr+45% 960Min Summer	7.499	0.00	0.00
100Yr+45% 30Min Summer	91.729	0.00	0.05	100Yr+45% 1440Min Summer	5.473	0.00	0.00
100Yr+45% 60Min Summer	58.739	0.00	0.16	100Yr+45% 2160Min Summer	3.985	0.00	0.00
100Yr+45% 120Min Summer	36.254	0.00	0.00	100Yr+45% 2880Min Summer	3.178	0.00	0.00
100Yr+45% 180Min Summer	26.900	0.00	0.00	100Yr+45% 4320Min Summer	2.306	0.00	0.00
100Yr+45% 240Min Summer	21.623	0.00	0.00	100Yr+45% 5760Min Summer	1.834	0.00	1.56
100Yr+45% 360Min Summer	15.914	0.00	0.00	100Yr+45% 7200Min Summer	1.536	0.00	2.88
100Yr+45% 480Min Summer	12.782	0.00	0.00	100Yr+45% 8640Min Summer	1.330	0.00	3.93
100Yr+45% 600Min Summer	10.774	0.00	0.04	100Yr+45% 10080Min Summer	1.178	0.00	4.78
100Yr+45% 720Min Summer	9.365	0.00	0.00				

Simulation Results

Return Period Yrs: 100.0

Climate Change %: 45

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S7	180 min Summer	133	33.811	0.511	0.658		Surcharged
Perm Pav	5760 min Summer	5240	34.520	0.720	0.002		Flood Risk
S08	180 min Summer	133	33.810	0.660	0.653		Surcharged
S11	180 min Summer	134	33.810	0.830	0.672		Surcharged
S1	15 min Summer	8	34.082	0.102	14.050		OK
S2	180 min Summer	134	33.810	0.090	1.509		OK
Tank	180 min Summer	134	33.810	1.010	2.141		Surcharged
S3	180 min Summer	134	33.809	1.009	2.143		Surcharged
S4	60 min Summer	58	32.756	0.036	2.167		OK
S5	60 min Summer	58	32.728	0.038	2.167		OK
S6	60 min Summer	58	32.507	0.017	2.167		OK
Existing	60 min Summer	58	31.107	0.017	2.167		Outfall

Conduits

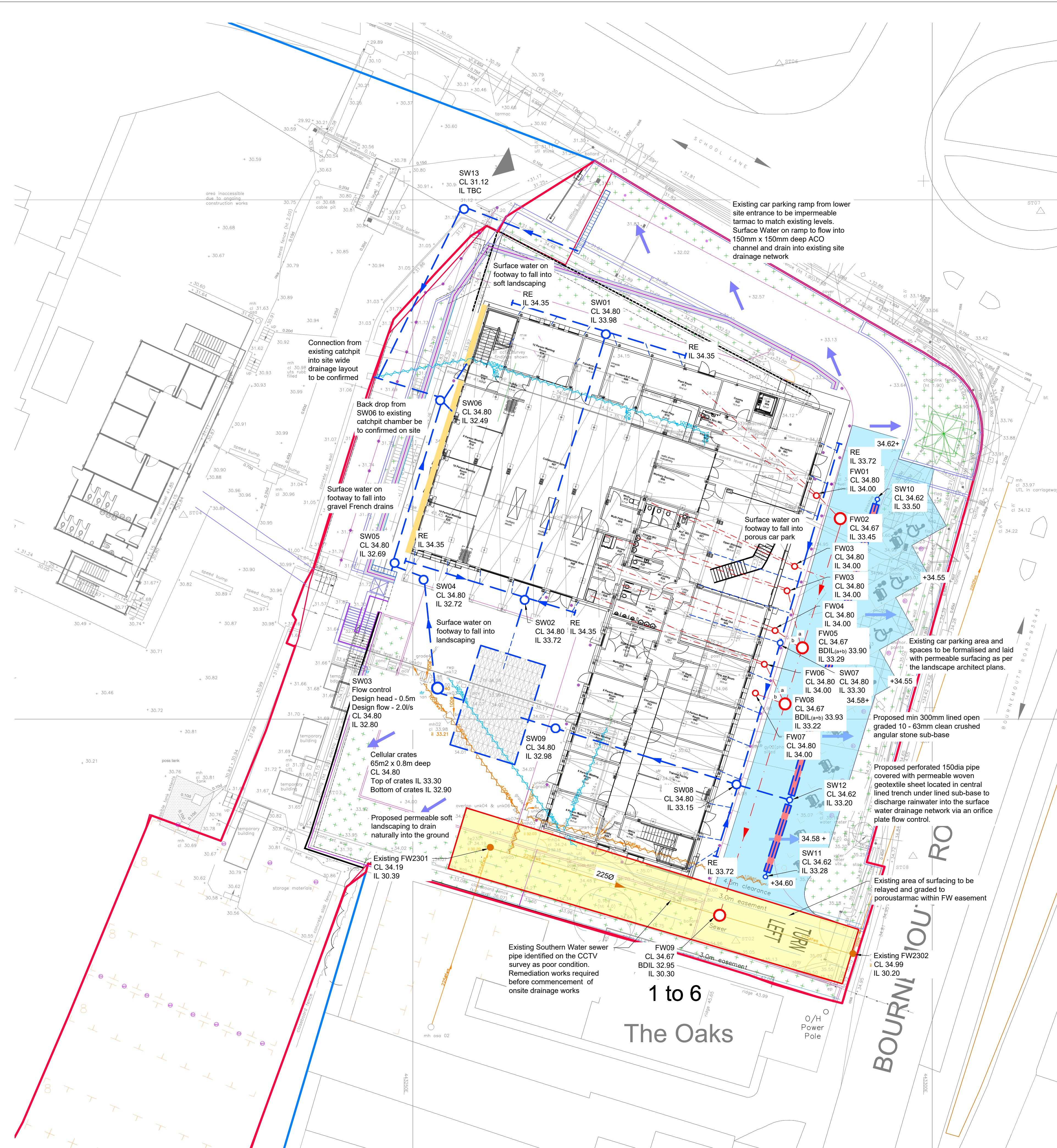
Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	120 min Summer	74	S7	S08	0.150	0.910	5.899	0.322	Surcharged
2.000	180 min Summer	141	Perm Pav	S08	0.080	0.003	0.027	0.000	OK
1.001	120 min Summer	71	S08	S11	0.150	0.898	5.890	0.344	Surcharged
1.002	60 min Summer	35	S11	Tank	0.150	0.960	8.716	0.442	Surcharged
3.000	15 min Summer	8	S1	S2	0.089	1.272	13.881	0.791	OK
3.001	180 min Summer	134	S2	Tank	0.120	1.682	10.449	0.181	OK
1.003	600 min Summer	298	Tank	S3	0.150	0.612	8.116	0.343	Surcharged
1.004	120 min Summer	77	S3	S4	0.036	0.676	2.167	0.121	OK
1.005	120 min Summer	78	S4	S5	0.037	0.680	2.167	0.127	OK
1.006	120 min Summer	79	S5	S6	0.028	0.975	2.167	0.120	OK
1.007	120 min Summer	79	S6	Existing	0.017	1.999	2.167	0.027	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Permeable Paving1	10080 min Summer	6741	34.520	0.400	0.111		Surcharged

Appendix G

Proposed Drainage Layout



Key

Site Boundary

Building finished floor level

Existing SW manhole, Plastic Inspection Chamber

Proposed SW manhole, Plastic Inspection Chamber

Existing FW manhole, Plastic Inspection Chamber

Proposed FW manhole, Plastic Inspection Chamber

Existing SW sewer

Existing FW sewer

Existing SW sewer abandoned

Existing FW sewer abandoned

Proposed SW sewer

Proposed FW gravity sewer

Proposed SW connection

Proposed FW connection

Proposed SW Perforated connection

svp/ss

Soil Vent Pipe / Stub Stack

6m foul sewer easement on existing Southern Water drainage run

Drainage Channel

Road gully

SW Rodding Eye

Rainwater downpipe

Proposed 300mm min think lined open graded crushed angular stone sub-base

Proposed gravel French drain strip on footpath

Tree / Stump to be removed

Hedge to be removed

Gravel to be removed

Exceedance Flow arrows

- Notes
- GENERAL
- This drawing is to be read in conjunction with all relevant Engineers and Architects drawings and with the Specification.

For setting out refer to Architects and Landscape Architects drawings.

All dimensions are in millimetres and levels are in metres unless noted otherwise.

Contractor to take all relevant dimensions on site. Any discrepancies to be advised to the Engineer.

Contractor to check/scan for services prior to construction to avoid any damage during works.

DRAINAGE

Any information given on this drawing regarding existing services is believed to be correct. The contractor must check this information and determine the nature and location of other existing services from the various statutory authorities before commencing excavation works.

Drainage works to be constructed in accordance with BS EN 752 and Approved Document H.

All soft spots and unacceptable material encountered in drainage excavations is to be removed and replaced with granular material to the requirements of the building control officer.

Pipes to be installed to manufacturers recommendations.

Pipes under buildings to be laid to a fall of 1:60 minimum unless noted otherwise. Internal level of pipes to be 4.20m (50mm below blinding + 90° bend). Refer to structural detail drawings for detailed slab construction make-up layers and levels.

Plastic plain wall pipes to be PVC-U to BS EN 1401-1, class SN4, with flexible joints, Kitemark certified. Structured wall plastic pipes to be to WIS 04-35-01, Kitemark certified.

Clay pipes to be vitrified clay to BS EN 295-1, with flexible joints, Kitemark certified. Clayware pipes must be extra strength classification protected in accordance with the specified details.

Concrete pipes to be precast concrete to BS 5911-1 and BS EN 1916, with flexible joints.

Bedding of pipes to be in accordance with approved document H1.

Rocker pipes with flexible joints are to be provided at a distance of 150mm and 750mm from the face of construction to manholes, where pipes pass above, below or through ground beams or foundations; at gully connections and soil stack ends.

Manhole access covers are to be located at the outgoing side of manholes.

Cover levels are to be fixed on site to suit finished levels. Covers and frames to BS EN124, Grade D to be used in areas subject to heavy vehicular loading, Grade C in areas subject to light vehicular loading and Grade B to be used elsewhere.

All pipes to be 1000 unless noted otherwise.

Manhole positions are indicative only to be confirmed by drainage Engineer.

Access points to be located at base of all rwp and svps.

All gullies to be trapped.

Positions of SVP's and RWP's are indicative only and should be read in conjunction with Architects drawings.

Paving to paths and patios to be impermeable and drain into a drainage channel or soft landscaping. For further details refer to Landscape plan.

Block paving and tarmac surfacing in car park area to be impermeable, with overground levels run-off into permeable parking bay areas to discharge into drainage network.
- DO NOT SCALE FROM THIS DRAWING
- HAZARDS LEADING TO UNUSUAL OR SIGNIFICANT RISKS DURING THE CONSTRUCTION PROCESS ARE IDENTIFIED ON THIS DRAWING AS:

BE AWARE

INFORMATION

DO

DON'T DO

NOTE: THE LIST BELOW IDENTIFIES CERTAIN RISKS WHICH ARE DEEMED TO BE UNUSUAL, ABNORMAL, OR UNEXPECTED TO A COMPETENT CONTRACTOR CARRYING OUT WORK OF THIS NATURE BUT DOES NOT COVER ALL POSSIBLE SITUATIONS WHICH MAY BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS. IT IS THEREFORE THE MAIN CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY FURTHER RISKS/HAZARDS AND TAKE APPROPRIATE ACTION.

RISKS/HAZARDS SPECIFIC TO THIS DRAWING:

PRELIMINARY - NOT FOR CONSTRUCTION

P03	Updated Architects Layout dated 30.09.25	RD	TK	/	IL	14.10.25
P02	Preliminary Issue		TK	/	IL	14.08.25
P01	Preliminary Issue		RD	/	IL	31.07.25
Rev	Amendment	Dm	Chkd	/	Appt	Date

Selwood Workdry HQ,
Chandlers Ford

Drawing

Drainage Strategy

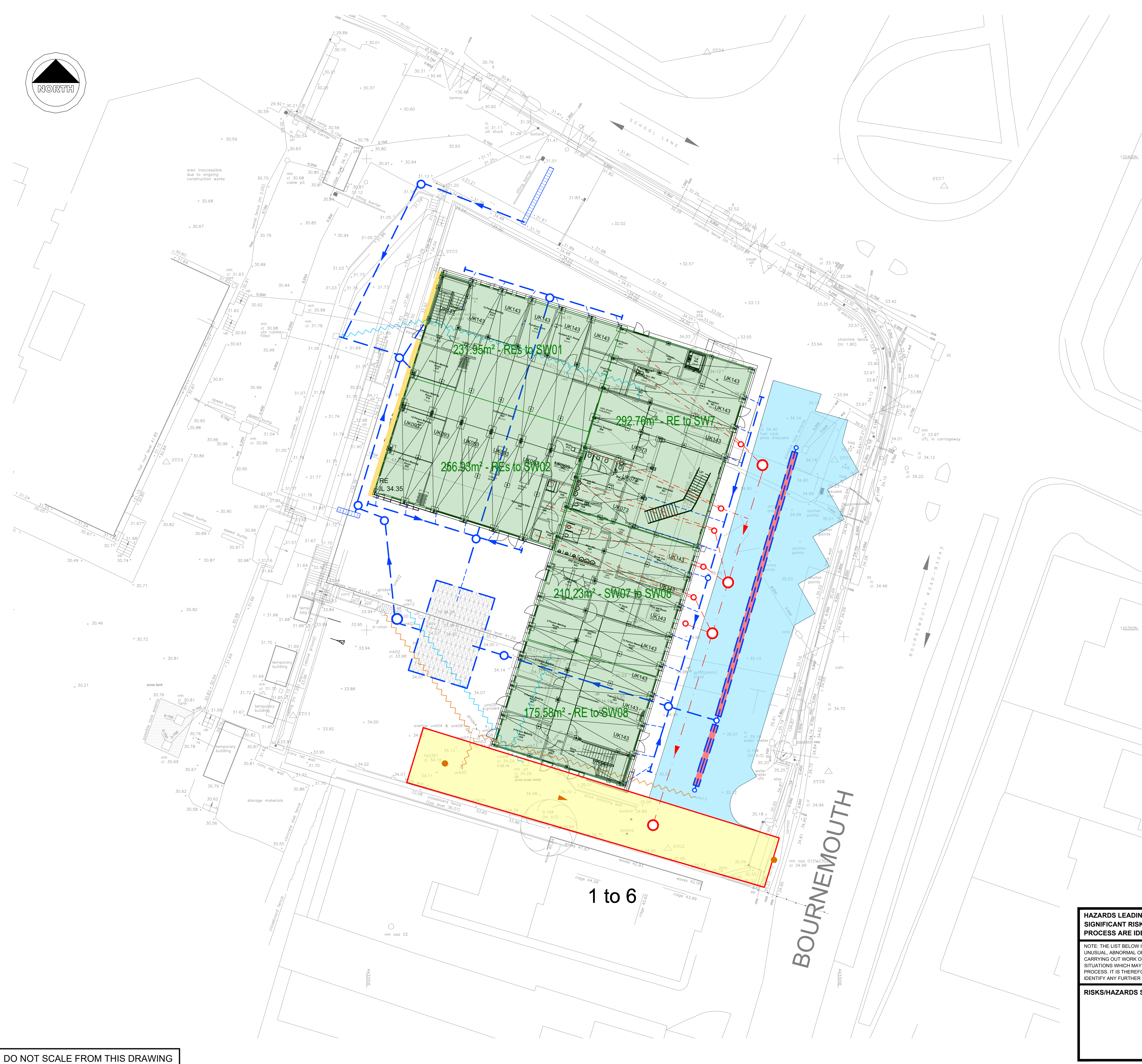
Client	Workdry Limited	SWH Project Number	304846
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Scale at A1 - 1:200	304846-SWH-XX-XX-DR-C-5001	P03
Project Number - Originator - Functional Breakdown - Spatial Breakdown - Form - Discipline - Sheet Number	Revision	

CP004-01_FM_ST_008.D



Notes

GENERAL

- This drawing is to be read in conjunction with all relevant Engineers and Architects drawings and with the Specification.
- For setting out refer to Architects and Landscape Architects drawings.
- All dimensions are in millimetres and levels are in metres unless noted otherwise.
- Contractor to take all relevant dimensions on site. Any discrepancies to be advised to the Engineer.
- Contractor to check/scan for services prior to construction to avoid any damage during works.

DRAINAGE

- Any information given on this drawing regarding existing services is believed to be correct. The contractor must check this information and determine the nature and location of other existing services from the various statutory authorities before commencing excavation works.
- Drainage works to be constructed in accordance with BS EN 752 and Approved Document H.
- All soft spots and unacceptable material encountered in drainage excavations is to be removed and replaced with granular material to the requirements of the building control officer.
- Pipes to be installed to manufacturers recommendations.
- Pipes under buildings to be laid to a fall of 1:60 minimum unless noted otherwise. Internal level of pipes to be 4.20m (50mm below blinding + 90° bend). Refer to structural detail drawings for detailed slab construction make-up layers and levels.
- Plastic plain wall pipes to be PVC-U to BS EN 1401-1, class SN4, with flexible joints, Kitemark certified. Structured wall plastic pipes to be to WIS 04-35-01, Kitemark certified.
- Clay pipes to be vitrified clay to BS EN 295-1, with flexible joints, Kitemark certified. Clayware pipes must be extra strength classification protected in accordance with the specified details.
- Concrete pipes to be precast concrete to BS 5911-1 and BS EN 1916, with flexible joints.
- Bedding of pipes to be in accordance with approved document H1.
- Rocker pipes with flexible joints are to be provided at a distance of 150mm and 750mm from the face of construction to manholes, where pipes pass above, below or through ground beams or foundations; at gully connections and soil stack ends.
- Manhole access covers are to be located at the outgoing side of manholes.
- Cover levels are to be fixed on site to suit finished levels. Covers and frames to BS EN124, Grade D to be used in areas subject to heavy vehicular loading, Grade C in areas subject to light vehicular loading and Grade B to be used elsewhere.
- All pipes to be 100Ø unless noted otherwise.
- Manhole positions are indicative only to be confirmed by drainage Engineer.
- Access points to be located at base of all rwp and svps.
- All gullies to be trapped.
- Positions of SVP's and RWP's are indicative only and should be read in conjunction with Architects drawings.
- Paving to paths and patios to be impermeable and drain into a drainage channel or soft landscaping. For further details refer to Landscape plan.
- Block paving and tarmac surfacing in car park area to be impermeable, with overground levels run-off into permeable parking bay areas to discharge into drainage network.

PRELIMINARY - NOT FOR CONSTRUCTION

P02	Updated Architects Layout dated 30.09.25	TK	TK	IL	14.10.25
P01	Preliminary Issue	RD	TK	IL	31.07.25
Rev.	Amendment	Dm.	Chkd.	Appd.	Date

Project
Selwood Workdry HQ,
Chandlers Ford

Client Workdry Limited	SWH Project Number 304846
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Scale at A1 - 1:200	
304846-SWH-XX-XX-DR-C-5002	P02
Project Number - Originator - Functional Breakdown - Spatial Breakdown - Form - Discipline - Sheet Number	Revision

CP004-01_FM_ST_008_D

DO NOT SCALE FROM THIS DRAWING

HAZARDS LEADING TO UNUSUAL OR SIGNIFICANT RISKS DURING THE CONSTRUCTION PROCESS ARE IDENTIFIED ON THIS DRAWING AS:

NOTE: THE LIST BELOW IDENTIFIES CERTAIN RISKS WHICH ARE DEEMED TO BE UNUSUAL, ABNORMAL OR UNEXPECTED TO A COMPETENT CONTRACTOR CARRYING OUT WORK OF THIS NATURE BUT DOES NOT COVER ALL POSSIBLE SITUATIONS WHICH MAY BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS. IT IS THEREFORE THE MAIN CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY FURTHER RISKS/HAZARDS AND TAKE APPROPRIATE ACTION.

RISKS/HAZARDS SPECIFIC TO THIS DRAWING:

1 to 6

Appendix H

SW Drainage Maintenance Schedule

This schedule sets out the inspection and maintenance requirements for long term management of the development's surface water drainage system. This work is to be undertaken by the Client.

All those responsible for maintenance should take appropriate health, safety and welfare precautions for all activities including lone working, if relevant, and risk assessments should always be undertaken. The site's infrastructure Health and Safety File should be consulted before carrying out any works either inside or outside of the development's boundary and information regarding the location of existing utilities passed on to operatives.

The requirements of the Health and Safety at Work Act 1974 and The Construction (Design and Management) Regulations 2015 should be adhered to and any residual risks identified in the Health and Safety File should be managed and information passed on to maintenance operatives through task specific risk assessments.

There are three types of maintenance activities associated with surface water drainage systems.

The SuDS Manual, CIRIA C753, defines these as:

- Regular Maintenance – *'basic tasks undertaken on a frequent and predictable schedule' including vegetation management, litter and debris removal, and inspections.'*
- Occasional Maintenance – *'tasks that are likely to be required periodically, but on a much less frequent and predictable basis than the routine tasks (sediment removal is an example.'*
- Remedial Maintenance – *'intermittent tasks that may be required to rectify faults associated with the system, although the likelihood of faults can be minimised by good design. Where remedial work is found to be necessary, it is likely to be due to site-specific characteristics or unforeseen events, and as such timings are difficult to predict.'*

SuDS Components Operation and Maintenance Activities

Operation and Maintenance activity	SuDS component (Components shown thus ' ~~Wetland~~ ' are not relevant to the project for which this schedule has been compiled.)												
	Pond	~~Wetland~~	Detention basin	Infiltration basin	Soakaway	Infiltration Trench	Filter Drain	Modular Storage	Pervious Pavement	Swale/bioretention/trees	Filter Strip	Green Roofs	Proprietary Treatment Systems
Regular maintenance													
Inspection	■	■	■	■	■	■	■	■	■	■	■	■	■
Litter and debris removal	■	■	■	■	□	■	■	□	■	■	■		□
Grass cutting	■	■	■	■	□	■	■	□	□	■	■		
Weed and invasive plant control	□	□	□	□		□	□		□		□	■	
Shrub management (including pruning)	□	□	□	□					□	□	□		
Shoreline vegetation management	■	■	□										
Aquatic vegetation management	■	■	□										
Occasional maintenance													
Sediment management ¹	■	■	■	■	■	■	■	■	■	■	■		■
Vegetation replacement	□	□	□	□						□	□	■	
Vacuum sweeping and brushing									■				
Remedial maintenance													
Structure rehabilitation /repair	□	□	□	□	□	□	□	□	□	□	□	□	
Infiltration surface reconditioning				□	□	□	□		□	□	□		

■ Will be required □ May be required

¹ Sediment should be collected and managed in pre-treatment systems, upstream of the main device.

Piped Network / Chambers

Piped Network/Chambers Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Inspect and identify any features that are not operating correctly. If required take remedial action	Monthly for three months, then six monthly
	Debris removal from catchment surface / gratings (where may cause risks to performance)	Monthly (and after large storms)
	Remove sediment from trapped sumps, manholes and catchpits.	Annually or as required
Remedial Maintenance	Repair / rehabilitation of gratings, inlets and outlets	As required
Monitoring	Inspect / check all gratings, trapped sumps, manholes and catchpits to ensure that they are in good condition and operating as designed	Annually and after large storm events
Structure Rehabilitation / Repair	Regular Maintenance and Monitoring to identify if repair and / or replacement of features or pipework is required.	As required

Cellular/modular Storage

Cellular Storage Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Inspect and identify any features that are not operating correctly. If required take remedial action	Monthly for three months, then annually.
	Remove debris from catchment surface (where may cause risks to performance)	Monthly
	Remove debris from catchment surface (where may cause risks to performance)	Annually or as required
Remedial Maintenance	Repair / rehabilitate inlets, outlets, overflows and vents	As required
Monitoring	Inspect / check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually and after large storm events
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required
Structure Rehabilitation / Repair	Regular Maintenance and Monitoring to identify if repair and / or replacement of storage units is required.	As required
The SuDS Manual Table 21.3: Operation and maintenance requirements for attenuation storage tanks		