

1.0 Introduction

- 1.1 This Technical Note provides a response to the comments made by Leicestershire County Council as Lead Local Flood Authority (LLFA) in their consultation response dated 21st November 2024 to planning application reference 24/00484/OUT. A copy of the response is enclosed in **Appendix A**.
- 1.2 The response advised that the following further information is required in order to provide a substantive response:
- Evidence confirming that the on-site pond (potentially a spring) is not a flood risk to the development.
 - Consideration given to discharging surface water directly to the ditch rather than the manhole.
 - Confirmation that there is developer control over the land where the proposed outfall is to be located.
 - Further investigation into the surface water outfall route off-site.
- 1.3 This Technical Note provides a response in turn to each of these points providing the required clarification and/or information.

2.0 Existing Pond

- 2.1 The references to pond on the OS map are incorrect, there is no pond in this location.
- 2.2 The area marked “pond” on the OS map can be seen on the topographical survey extract at **Figure 2.1** below with the full survey in **Appendix B**. There is a surveyed ridge (green dashed line) to three sides but nothing to the north. The surveyed levels do not indicate any depression here either.
- 2.3 A site visit has confirmed that there is no pond in this location as shown in the photograph of the area at **Figure 2.2**. Therefore, whilst there might be a slight localised depression here, if there is it is minimal and as the topographical survey of the “pond” shows this area is unable to store any water.
- 2.4 The landowners have advised that there is a water flow from the ground (spring) in this area and the area is often wet, as shown in **Figure 2.2**. It should be noted that the standing water is on an area of hardstanding which is impermeable.
- 2.5 The flow from the ground is not thought to be large and the volume of water is relatively small as demonstrated on the photograph below taken on 6th December 2024 after the previously wet period comprising named storms in late September and late November 2024. A further, more recent, photo of this area from 24 January 2025 is shown at **Figure 2.2**.

Figure 2.1: Extract from Topographical Survey

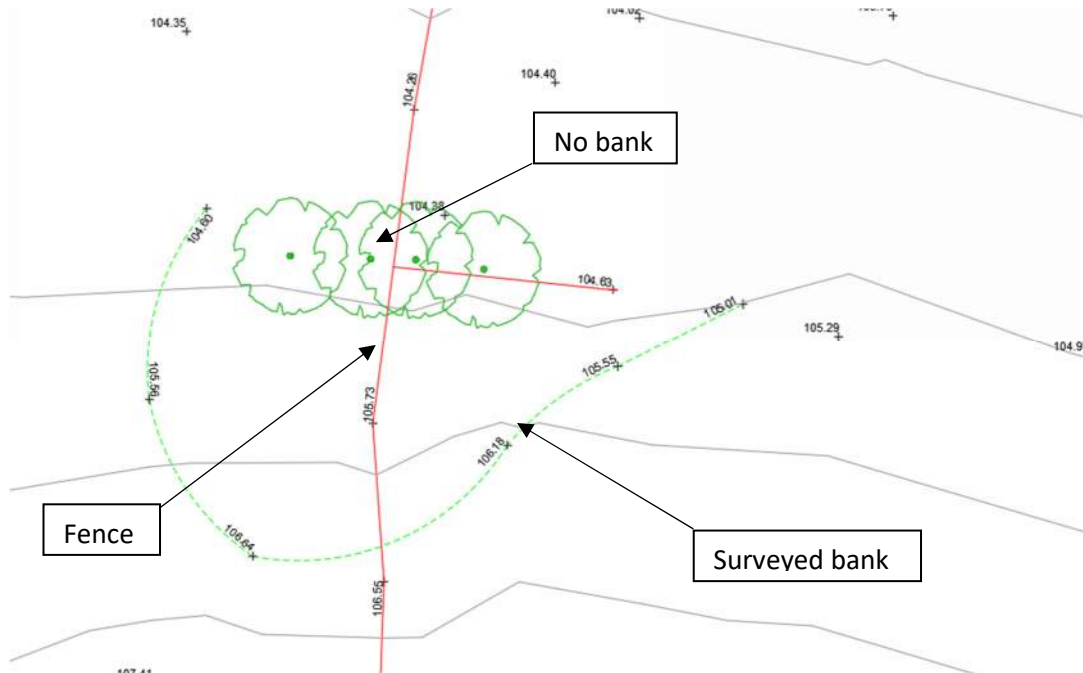


Figure 2.2: OS Marked “Pond” Area with standing water – 6th December 2024



- 2.6 From further conversations with the landowner we understand that the spring water is collected in a trough and used for animal water. There is an overflow from this which is currently piped down to the ditch adjacent to the site's northern boundary. **Figure 2.4** shows the outfall of this overflow into the ditch.
- 2.7 To ensure that the water does not cause a nuisance for future residents the water will be collected in a feature within an area of open space or a private garden and collected such that the flow can be piped or accommodated within a swale / ditch within the development down to the existing ditch located adjacent to the unnamed road to the north. Thus, post development the spring water will be collected and managed in a manner similar to the existing situation.

Figure 2.3: OS Marked "Pond" Area with standing water – 6th December 2024



Figure 2.4: Outfall from Spring



3.0 Outfall

- 3.1 The outfall is currently shown directly into the manhole, we will ensure that any connection is directly into the ditch. This can and will be picked up at reserved matters application / discharge of condition stage during the detailed design of the surface water drainage for the site.
- 3.2 The ditch is adjacent to the site boundary and is therefore riparian owned by the landowner and does not form part of the highway. Therefore, the application site has the required permissions to discharge into the ditch.

4.0 Surface Water Outfall Tracing

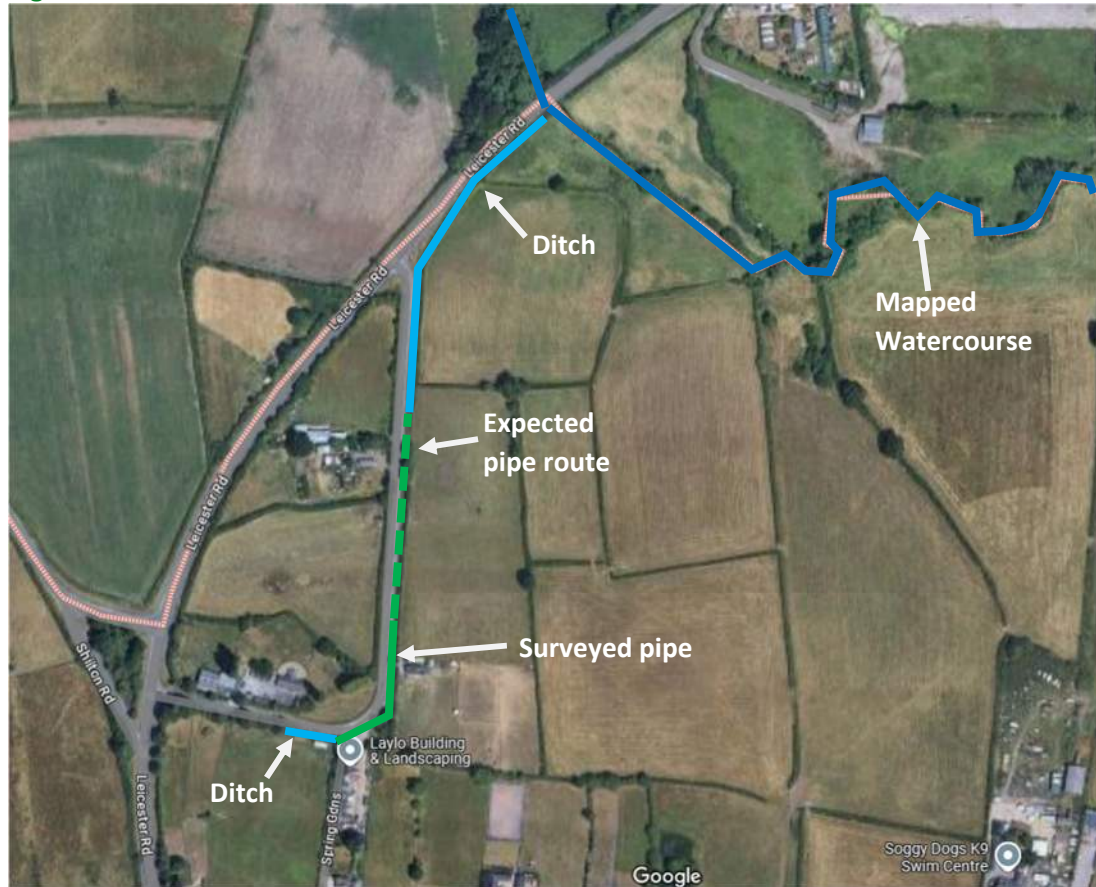
- 4.1 The proposed development will discharge surface water to a ditch located adjacent to the site's northern boundary. The ditch is adjacent to the site boundary and is therefore riparian owned by the landowner and does not form part of the highway. Therefore, the application site has the required permissions to discharge into the ditch.
- 4.2 The ditch has a manhole located at its eastern extent adjacent to Spring Gardens. The ditch which was recently cleaned can be seen in the **Figure 4.1** below.

Figure 4.1: Ditch adjacent to site



- 4.3 Water from the ditch enters the manhole via the cover. There is also a surface water pipe from the direction of Spring Gardens. The manhole (catchpit) is in good condition and water freely flows out of the manhole via a 150mm diameter pipe.
- 4.4 A previous survey of the outfall failed to trace the route further than approximately 5m. However, a new and more extensive survey was undertaken on the 24th January 2025 using a suction pump and jetting equipment, which able to trace more of the outfall route. The results of this new survey are enclosed in **Appendix C**.
- 4.5 The indicative route of the outfall is shown in **Figure 4.2** below. As this shows, the pipe travels for approximately 38m towards the hedge line located on the eastern side of the unnamed road, at which point the pipe turns northwards and travels along the route of what is presumably a now piped ditch with an approximate depth of 1.4m.
- 4.6 The pipe was clear with some minor root ingress but otherwise in good condition and at all times was running clear with no standing water which indicates that this is the case all the way to the outfall. If it was not and the outfall was blocked the pipe would be full in no time with the incoming flow.
- 4.7 The survey of the drainage outfall was able to cover some 90m from the manhole, which was the limit of the survey due to technical constraints comprising upstream access only, a small diameter pipe, the turn to follow the ditch line and no other access points being provided.
- 4.8 Approximately 180m from the end of the pipe survey to the north a ditch becomes visible and follows the route of the road turning east and ultimately draining into the mapped watercourse. This length of ditch can be seen on the photographs enclosed in **Appendix D**.
- 4.9 It is unclear if the pipe drains into the ditch or if it continues piped all the way to the watercourse. However, as noted above due to a lack of standing water or other blockages in the pipe we are confident that this provides a good outfall for the proposed development and will not cause flooding to down stream neighbours.
- 4.10 It is also worth noting that with the exception of one gully there is no highway drainage to the road (no gullies, no grips) meaning that this water is not draining into the pipe or ditch and the highway is not adding any additional load or maintenance liability to the ditch or pipe.
- 4.11 If the pipe continues to the watercourse then it has adequate capacity to accommodate the development as there is no other water entering the pipe.
- 4.12 If the pipe enters the ditch then as there is no additional increase in flow rate the ditch will be able to accommodate the flows from upstream.

Figure 4.2: Route of outfall to watercourse





Application address Land East of Leicester Road Earl Shilton Leicestershire		Planning ref.	24/00484/OUT
		Our ref.	2024/0484/04/F
Description Outline planning application (some matters reserved except for means of access and scale) for the erection of up to 33 dwellings, including affordable housing, public open space, landscape planting, sustainable drainage system and new access arrangements from the Un-named Road		Consultation date	04/11/2024
		Response date	21/11/2024
Planning officer	Sullivan Archer	Reviewing officer	Jess Nobbs
Application type	Outline	Extension requested	☐
Refer to standing advice ☐	Conditions ☐	Further consultation required ☒	Concerns ☐

Consultation checklist

No.	Description	Check
1	Location plan	☒
2	Proposed layout plan	☒
3	Evidence that the site can be drained	☐
4	Topographic and ground investigation details	☐
5	The total impermeable area pre and post development	☒
6	All potential flood risk sources have been identified and assessed	☐
7	Existing and proposed peak discharge rates	☒
8	Consideration of sustainable drainage systems	☒
9	Attenuation volume calculations	☒
10	Consideration of the maintenance and management of all drainage elements	☒

LLFA Key Observations and Advice

Leicestershire County Council as Lead Local Flood Authority (LLFA) notes that the 1.58ha greenfield site is located within Flood Zone 1 being at low risk of fluvial flooding and a low risk of surface water flooding. The proposals seek to discharge at 5 l/s via tanked pervious paving to the detention basin before ultimately discharging into the adjacent watercourse. There are no existing flood risk concerns within the immediate downstream catchment.

It is noted that this application was submitted in May 2024 with the LLFA being consulted in November. The LLFA is aware that this application went to committee on the 19th November where it was agreed to defer decision on this application pending a site visit. It is assumed that in writing the committee report for this site, it was realised that the LLFA had not been consulted.

The existing details show an on-site pond with no apparent way of intercepting water. This pond is not discussed in the Flood Risk Assessment. With the adjacent road named 'Spring Gardens', there is concern that this pond is fed by a spring, and the removal of this pond possibly resulting in spring water creating a risk to development. It needs to be demonstrated that this feature does not pose a risk to the development and where this is deemed to be a spring, water is safely routed.

The proposed surface water outfall is to a manhole at the end of the ditch at the northeast corner of the site. The LLFA would prefer an outfall to the ditch if levels allow. From the submitted details, it appears that this ditch and manhole are outside the development boundary, therefore it is unclear if there is developer control over this land in order to construct the outfall.

The CCTV survey is inconclusive, and it is still unclear where the ditch along the northern boundary is routed. The applicant should attempt further work and/or desk study to clarify the surface water flow route off-site.

Leicestershire County Council as Lead Local Flood Authority (LLFA) advises the Local Planning Authority (LPA) that the application documents as submitted are insufficient for the LLFA to provide a substantive response at this stage. In order to provide a substantive response, the following information is required:

- Evidence confirming that the on-site pond (potentially a spring) is not a flood risk to the development.
- Consideration given to discharging surface water directly to the ditch rather than the manhole.
- Confirmation that there is developer control over the land where the proposed outfall is to be located.
- Further investigation into the surface water outfall route off-site.

Advice to the Local Planning Authority

1. Standing Advice – National Planning Policy Framework

When determining planning applications, the local planning authority should ensure flood risk is not increased elsewhere and only consider development appropriate in areas at risk of flooding where informed by a site-specific Flood Risk Assessment (FRA) confirming it will not put the users of the development at risk. Where an FRA is applicable this should be undertaken in accordance with the requirements of the National Planning Policy Framework and accompanying Planning Practice Guidance.

2. Standing Advice – Consent

Where there are any works proposed as part of an application which are likely to affect flows in an ordinary watercourse or ditch, the applicant will require consent under Section 23 of the Land Drainage Act 1991. This is in addition to any planning permission that may be granted. Guidance on this process and a sample application form can be found via the following website: <http://www.leicestershire.gov.uk/flood-risk-management>

Applicants are advised to refer to Leicestershire County Council's culverting policy contained within the Local Flood Risk Management Strategy Appendix document, available at the above link. No development should take place within 5 metres of any watercourse or ditch without first contacting the County Council for advice.

This consent does not consider local watercourse bylaws. It is the responsibility of the applicant to check if the local borough or district council has their own bylaws which the proposals will also need to consider.

3. Standing Advice – Maintenance

Note that it is the responsibility of the Local Planning Authority under the DEFRA/DCLG legislation (April 2015) to ensure that a system to facilitate the future maintenance of SuDS features can be managed and maintained in perpetuity before commencement of the works.

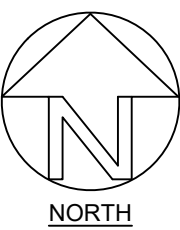
Additional information and guidance is available here:

<https://www.leicestershire.gov.uk/environment-and-planning/flooding-and-drainage/>

Note: Response provided by the Lead Local Flood Authority under the delegated authority of the Director of Environment and Transport.



Appendix B
Topographical Survey



GENERAL NOTES

This drawing is to be read and printed in full colour.

SURVEY NOTES

1. This plan should only be used for its original purpose. Brightsurv Ltd accepts no responsibility if supplied to any other party than the original client.
2. Certain areas of the site may have been inaccessible due to dense vegetation, vehicles etc on site at the time of survey, therefore not all services may be identified on the survey drawing.
3. Information shown outside of the site boundary has been taken from Ordnance Survey records and would need verification to be relied upon.
4. The spread of vegetation shown is approximate only. Where canopy spread is critical then this shall be regularly checked. Generally only trees with a spread greater than 2.0m will be shown on the drawing.
5. Where the identity of a service is shown this is based on a visual id only. Where specific identification is required then additional survey work shall be undertaken.
6. Dimensions shown are in millimetres and levels in metres unless indicated.

Levels Levels relate to GPS observations.

LEGEND KEY			
AV Air Valve	FL Floor Level	RE Rodding Eye	
B Bollard	FLI Flood Light	RL Ridge Level	
BH Borehole	FW Foul Water	RS Road Sign	
BL Bed Level	G Gully	RWP Rainwater Pipe	
BS Bus Stop	GV Gas Valve	St Stump	
BT BT Cover	Ht Height	SL Soft Level	
BW Brick Wall	IC Inspection Chamber	SV Stop Valve	
CATV Cable TV Cover	IL Invert Level	SVP Soil & Vent Pipe	
CIB Close Boarded	IRR Iron Railing	SW Surface Water	
CL Chain Link	KO Kerb Outlet	SWW Stone Wall	
CL Cover Level	LB Letter Box	THL Threshold Level	
Col. Column	LP Lamp Post	TL Traffic Light	
CRW Concrete Retaining Wall	MH Manhole	TP Telegraph Pole	
CW Concrete Wall	Mk Marker Post	US Underside	
C/P Catch Pit	NP Name Plate	UTL Unable To Lift	
DPC Damp Proof Course	OH Overhead	VP Vent Pipe	
Dr Drain	P Post	WL Water Level	
EL Eaves Level	PI Pipe	WM Water Meter	
ER Earth Rod	PR Post & Rail	WO Wash Out	
EP Electricity Pole	PW Post & Wire	WT Water Tap	
FH Fire Hydrant	PL Parapet Level		

Building		Tree Canopy	
Vegetation		Fence	
Control Station		Boundary	
Bush/Shrub		Contours	
Tree		OH Telecom	
Tree (Multi-Bolt)		OH Electric	
Gate		Foul Water	
		Surface Water	

Rev B - March 2024-
Building Heights added.

Rev A - Feb 2024- Additional
Track and road added.

**Brightsurv
Ltd.**

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Godmanchester
PE29 2LR

Contact: Richard@brightsurv.co.uk
Tel: 07843 411 341

Client Manor Oak Homes

Project Land off Leicester Road
Earl Shilton

Title Topographical Survey

Checked by RB Date April 2023

Project ref Drawing no. Revision
BRI753 T01 B

Scale at A1 1:500 Drawn by RB

Status
For Information



CCTV DRAINAGE SURVEY





Project

Project Name: GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE

Project Date: 24/01/2025

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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Project Name	Project Number	Project Date
GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE		24/01/2025

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Project Information

Project Name
GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE**Project Number****Project Date**
24/01/2025

Client

Company: Manor Oak Homes Ltd
Contact: Ollie Main
Street: White Lodge Farm, Walgrave
Town or City: Northampton
Post Code: NN6 9PY
Phone: +441604781457
Mobile: +447900282854
Email: martin.andrews@mac-ltd.co.uk

Site

Company: Manor Oak Homes Ltd
Contact: Ollie Main
Street: o/s 15 Spring Gardens
Town or City: Earl Shilton
Post Code: LE9 7EE
Phone: +441604781457
Mobile: +447900282854
Email: martin.andrews@mac-ltd.co.uk

Contractor

Company: Wilkinson Environmental Ltd
Contact: Mike Moss
Department: Director
Street: Unit 12A Four Ways, Carlyon Road, Carlyon Ind Est
Town or City: Atherstone
County: Warwickshire
Post Code: CV9 1LG
Phone: 08451 949200
Email: Mike.Moss@wilkinson-env.co.uk



Scoring Summary

Project Name	Project Number	Project Date
GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE		24/01/2025

Structural Defects

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

Service / Operational Condition

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

Section	PLR	Grade	Description
2	MH01X	4	Multiple defects

Information

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



**PROFILE
REPORT ►**

Project Summary

Project Name GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE	Project Number	Project Date 24/01/2025
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	MH01X	MH01	D/S	Spring Gardens	Earl Shilton	S	VC	Circular 150mm	28.73 m
2	SEC	MH01X	MH01	D/S	Spring Gardens	Earl Shilton	S	VC	Circular 150mm	58.99 m
Total:										87.72 m

Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 150mm	28.73 m	
Circular 150mm	58.99 m	
Circular 150mm =	87.72 m	2
Total =	87.72 m	2

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	MH01	D/S	DS	J Gibbs	24/01/2025	9:33	1	1	SA, Unable to pass mass roots and silt, further cl	28.73 m
2	1	MH01	D/S	DS	J Gibbs	24/01/2025	9:57	2	4	GP, Position traced & marked 1.4m deep	58.99 m
Total:											87.72 m

Project Summary

Project Name GR6825 - 15 Spring Gardens - Earl Shilton LE9 7EE	Project Number	Project Date 24/01/2025
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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 Deviates
1	1	MH01	D/S	28.7		1																		
2	1	MH01	D/S	59.0	4	1		2							4		16	1					2	1
Total:				87.7	4	2		2									16	1					2	1

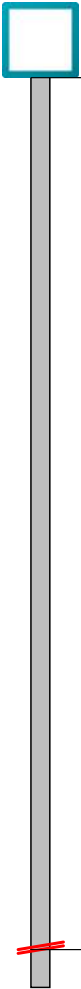


INSPECTION REPORT ►

Section Inspection - 24/01/2025 - MH01X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	24/01/25	9:33	Not Specified	No Rain Or Snow	Yes	MH01X
Operator J Gibbs		Vehicle BN21AZB		Camera Proteues	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Earl Shilton	Inspection Direction:	Downstream	Upstream Node:	MH01
Road:	Spring Gardens	Inspected Length:	28.73 m	Upstream Pipe Depth:	0.860 m
Location:	Verge	Total Length:	28.73 m	Downstream Node:	D/S
Surface Type:	Verge	Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	Flows blocked upstream	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Investigation of operational problems	Lining Material:	No Lining		
Comments:	Survey not coded, see sec 2				
Recommendations:					

Scale:	1:249	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.86 m MH01							
							
		0.00	CP	Start node, catchpit, reference: MH01: Survey not coded, see sec 2	00:00:00		
		28.73	SA	Survey abandoned: Unable to pass mass roots and silt, further cleaning required	00:04:11	1_MH01_Downstream_DS.jpg	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
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 - 24/01/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH01X		



1_MH01_Downstream_DS.jpg, 00:04:11, 28.73 m

Survey abandoned, Unable to pass mass roots and silt, further cleaning required

Section Inspection - 24/01/2025 - MH01X

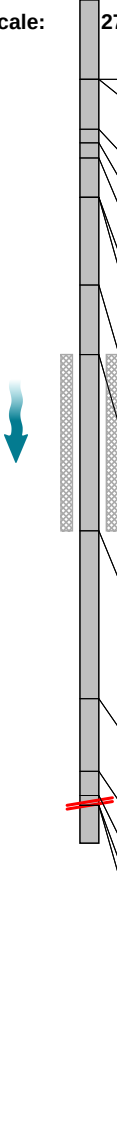
Item No. 2	Insp. No. 1	Date 24/01/25	Time 9:57	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR MH01X
Operator J Gibbs		Vehicle BN21AZB		Camera Proteues	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Earl Shilton	Inspection Direction:	Downstream	Upstream Node:	MH01
Road:	Spring Gardens	Inspected Length:	58.99 m	Upstream Pipe Depth:	0.860 m
Location:	Verge	Total Length:	58.99 m	Downstream Node:	D/S
Surface Type:	Verge	Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	Flows blocked upstream	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Investigation of operational problems	Lining Material:	No Lining		
Comments:	Survey two. Total length unknown				
Recommendations:					

Scale: 1:272	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.86 m MH01						
						
	0.00	CP	Start node, catchpit, reference: MH01	00:00:00	2_MH01_Downstream_DS.jpg	
	0.00	WL	Water level, 5% of the vertical dimension: heavy roots and silt removed	00:00:13		
	0.10	JDM	Joint displaced, medium	00:00:13		1 / 3
	1.30	RMJ	Roots, mass at joint, 10% cross-sectional area loss	00:00:41	3_MH01_Downstream_DS.jpg	3
	1.90	RMJ	Roots, mass at joint, 10% cross-sectional area loss	00:00:46		3
	2.21	CCJ	Crack, circumferential at joint from 1 o'clock to 5 o'clock	00:00:49	4_MH01_Downstream_DS.jpg	2 / 2
	2.74	S01 RFJ	Roots, fine at joint, start	00:00:56		
	7.61	RMJ	Roots, mass at joint, 10% cross-sectional area loss	00:01:41	5_MH01_Downstream_DS.jpg	3
	9.32	F01 RFJ	Roots, fine at joint, finish	00:01:58		2
	26.71	RMJ	Roots, mass at joint, 10% cross-sectional area loss	00:04:24		3
	27.93	IDJ	Infiltration, dripping at joint from 11 o'clock to 1 o'clock	00:04:37		
	27.93	RTJ	Roots, tap at joint	00:04:37	6_MH01_Downstream_DS.jpg	4
	28.62	RTJ	Roots, tap at joint	00:05:30		4
	29.85	RFJ	Roots, fine at joint	00:05:45		2

Section Inspection - 24/01/2025 - MH01X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	24/01/25	9:57	Not Specified	No Rain Or Snow	Yes	MH01X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
J Gibbs		BN21AZB		Proteus	Not Specified	Not Specified	Not Specified

Scale: 	272	Position [m]	Code	Observation	MPEG	Photo	Grade
	<u>32.89</u>		RFJ	Roots, fine at joint	00:06:10		2
	<u>32.89</u>		RTJ	Roots, tap at joint	00:06:10		4
	<u>34.67</u>		CL	Crack, longitudinal at 12 o'clock	00:06:20	7_MH01_Downstream_DS.jpg	2 / 2
	<u>35.16</u>		WL	Water level, 10% of the vertical dimension	00:06:24		
	<u>35.71</u>		RFJ	Roots, fine at joint	00:06:27		2
	<u>37.11</u>		JDM	Joint displaced, medium	00:06:41		1 / 3
	<u>37.11</u>		LL	Line deviates left: Sharp	00:06:41	8_MH01_Downstream_DS.jpg	
	<u>40.28</u>		RFJ	Roots, fine at joint	00:07:19		2
	<u>42.78</u>	S02	RFJ	Roots, fine at joint, start	00:07:37		
	<u>49.12</u>	F02	RFJ	Roots, fine at joint, finish	00:08:21		2
	<u>55.15</u>		JDM	Joint displaced, medium	00:09:25		1 / 3
	<u>57.77</u>		JDM	Joint displaced, medium	00:10:05		1 / 3
	<u>58.64</u>		RTJ	Roots, tap at joint	00:10:16		4
	<u>58.99</u>		SA	Survey abandoned: Unable to pass tap roots	00:10:29	9_MH01_Downstream_DS.jpg	
<u>58.99</u>		GP	General photograph taken at this point: Position traced & marked 1.4m deep	00:10:30	10_MH01_Downstream_DS.jpg,		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
6	10.0	0.4	24.0	2.0	20	6.0	1.1	64.0	4.0

Section Pictures - 24/01/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	MH01X		



2_MH01_Downstream_DS.jpg, 00:00:00, 0.00 m
Start node, catchpit, reference: MH01



3_MH01_Downstream_DS.jpg, 00:00:41, 1.30 m
Roots, mass at joint, 10% cross-sectional area loss



4_MH01_Downstream_DS.jpg, 00:00:49, 2.21 m
Crack, circumferential at joint from 1 o'clock to 5 o'clock



5_MH01_Downstream_DS.jpg, 00:01:41, 7.61 m
Roots, mass at joint, 10% cross-sectional area loss

Section Pictures - 24/01/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	MH01X		



6_MH01_Downstream_DS.jpg, 00:04:37, 27.93 m
Roots, tap at joint



7_MH01_Downstream_DS.jpg, 00:06:20, 34.67 m
Crack, longitudinal at 12 o'clock



8_MH01_Downstream_DS.jpg, 00:06:41, 37.11 m
Line deviates left, Sharp



9_MH01_Downstream_DS.jpg, 00:10:29, 58.99 m
Survey abandoned, Unable to pass tap roots

Section Pictures - 24/01/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	MH01X		



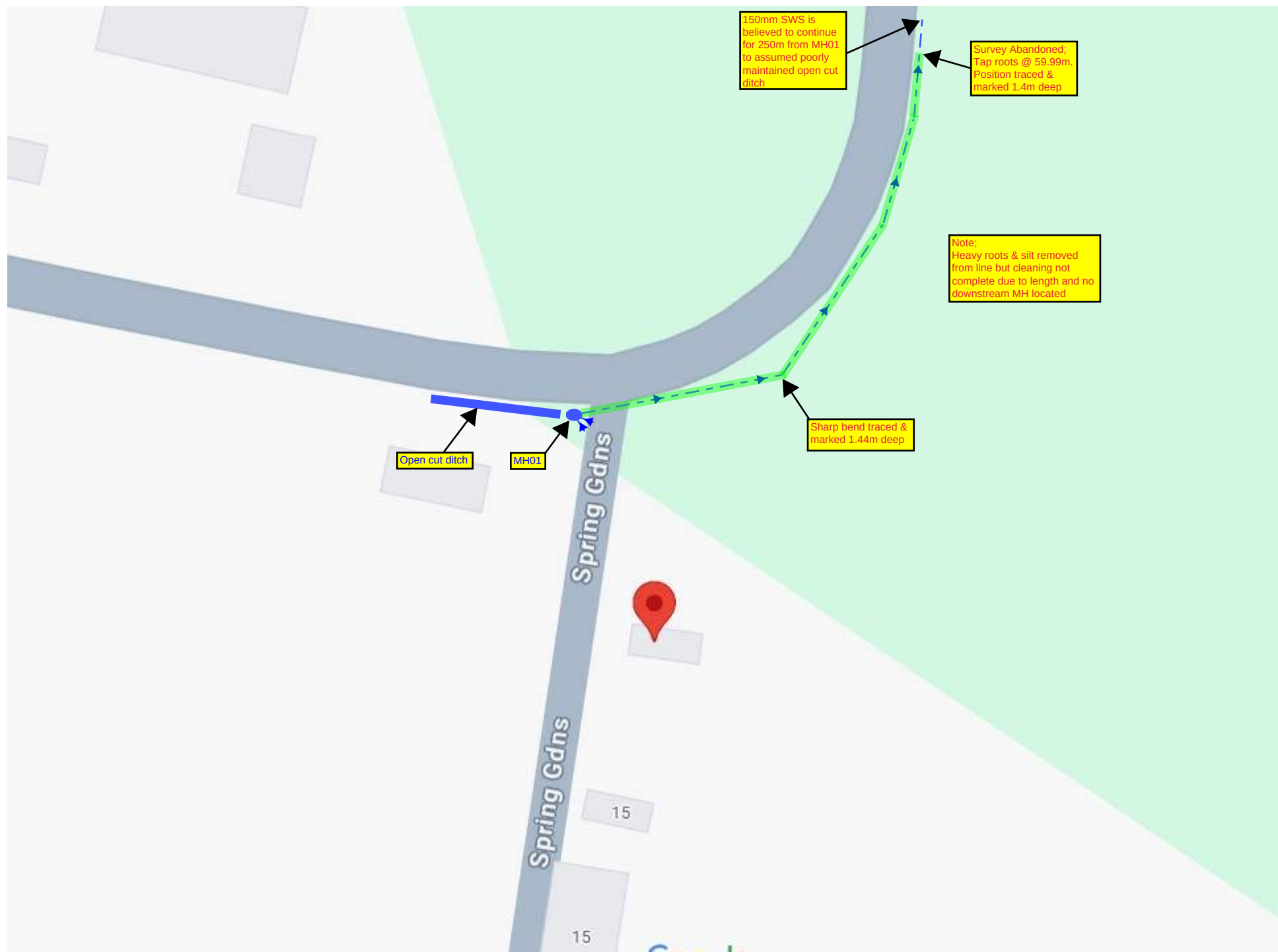
10_MH01_Downstream_DS.jpg, 00:10:30, 58.99 m
General photograph taken at this point, Position traced & marked 1.4m deep



11_MH01_Downstream_DS.jpg, 00:10:30, 58.99 m
General photograph taken at this point, Position traced & marked 1.4m deep



**SITE
PLANS ►**





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Appendix D
Ditch Photographs

Upstream end of ditch adjacent to unnamed road looking north



Ditch adjacent to Leicester Road road looking west towards unnamed road

