

Off Mains Drainage Survey Report Prepared For:

J Mirzoeff

The School House, 30 Kingston Deverill
Warminster
BA12 7HE

Date of Survey: 30/10/2024



Drainage Survey

What type of survey are we attending? Bespoke Off Mains

Weather conditions on the day of the survey: Dry overcast

Type of property surveyed: Semi detached

Property construction type: House

View of the front of the property:



What is the year of build of the property: Unknown but is believed to be built in the 17 century

Number of bedrooms: 2

Is the drainage system shared? No

Type of drainage tank at the property: Cesspit

Is the system emptied/serviced regularly? The tank is emptied twice yearly

Photograph of the tank before the system was emptied:



cesspit on arrival

Construction / design of the tank at the property:	A rectangle brick constructed tank with rendered internal surfaces
Number of zones in the existing tank:	1
Start of the drainage system:	The right-hand side of the property
Location of tank:	The rear of the property
Age of the tank (if known):	Unknown
Maximum potential occupancy for the property:	4
Dimensions of the tank:	The cesspit was not emptied for the site visit and could not be sized
Depth (below ground level) of the inlet pipe into the tank:	Unknown
Depth (below ground level) of the outlet pipe from the tank (if applicable):	NA
Capacity of the tank (below the inlet pipe):	NA
Based on our calculations, is the tank adequately sized for the maximum potential occupancy of the property?	Unable to verify
Tank size - please explain:	Unable to size the tank
Is there a manhole chamber upstream of the tank?	No
Overall condition of the tank:	Good

On arrival was the effluent level within the tank at the expected operating level?	Yes
Was there any damage observed to the tank during the inspection?	No
When the tank was emptied, was there any water observed returning to the tank from the outlet?	No
Was the outlet pipework accessible from the tank in order to conduct a CCTV survey?	Cesspit no outlet
Photograph of the general area of the tank:	
Is the current system discharging to surface water or ground	None - its a cesspit
Is there any removal of hedgerow or trees/shrubs necessary	Yes
If required, what is access like for plant to the area of the system for potential remedial works?	Poor
What works would be required to gain access to the area of the system if necessary?	There is a larger bush which will need to be removed for the new install
Are there any wells at the property?	No
Are there any boreholes at the property?	No

Are there any watercourses or seasonal drainage ditches within the boundary of the property?

Yes

Where is the watercourse or seasonal drainage ditch located?

At the rear left side of the rear garden is a flowing water course

Are there any watercourses or seasonal drainage ditches in the local area?

No

Was a dye test carried out to the accessible upstream rainwater pipes?

Yes

Were there any cross connections found between the rainwater system and the foul system?

No

Photograph of dye test undertaken



Does the system in place comply with the current Building Regulations 2010 part H.?

Unable to confirm as tank not emptied to confirm is sized adequately

Does the system in place comply with the General Binding Rules for small sewage discharges.?

Not applicable as a cesspit

CCTV Survey

While we were on site, we carried out a CCTV survey of all the accessible below ground drainage at the property, the details of which can be found at the end of this report.

Recommendations:

See attached recommendations sheet.

Additional notes:

SVP1 goes directly into the cesspit with no access to the pipework.

RWWG 1&2 appear to connect to the rain water system and from manhole 2 downstream runs towards a the rear left boundary into the neighbours.

The property used to be the school head mistress dwelling and the old system would have been private but it appears the rainwater is shared.

Two large bushes will need to be removed of the new install appt the end of the drive

Additional photograph for the report:

cesspit on arrival

Additional photograph for the report 2:

rain water cross connection at RWWG1

**Additional photograph for
the report 4:**



dye in manhole. 1 from
RWWG1

**Additional photograph for
the report 5:**



cesspit location to SVP1

**Additional photograph for
the report 6:**



manhole 2 location
viewed downstream
towards the left rear
boundary

**Additional photograph for
the report 7:**



large bushes to be
removed

**Additional photograph for
the report 8:**



new STP location behind
the large bushes that
will need to be removed

**Additional photograph for
the report 9:**



pumping main route
from the new STP to the
sample chamber

**Additional photograph for
the report 10:**



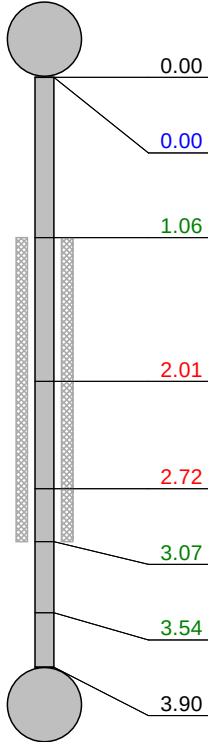
sample chamber
location to the water
course

Section Inspection - 06/11/2024 - RWWG1X

Item No. 1	Insp. No. 1	Date 06/11/24	Time 12:17	Client's Job Ref Not Specified	Weather Not Specified	Pre Cleaned Not Specified	PLR RWWG1X
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Warminster	Inspection Direction:	Upstream	Upstream Node:	RWWG1
Road:	The School House, 30 Kingston Deverill	Inspected Length:	3.90 m	Upstream Pipe Depth:	
Location:		Total Length:	3.90 m	Downstream Node:	MH1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	100 mm		
Flow Control:		Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:		Lining Material:	No Lining		

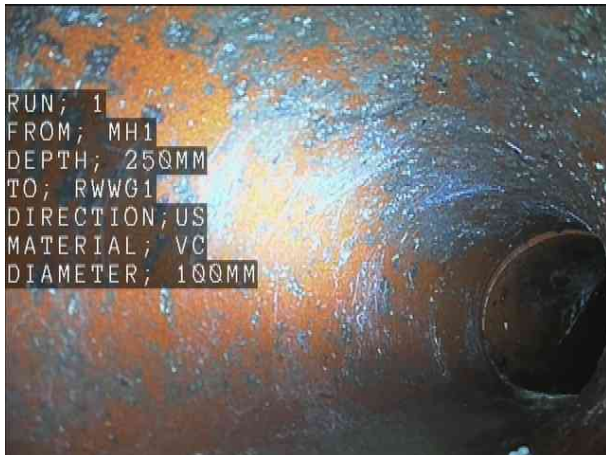
Comments:	
Recommendations:	

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH1 							
		0.00	MH	Start node, manhole, reference: MH1	00:00:00	RWWG1X_49ad36ae-da7d-49	
		0.00	WL	Water level, 5% of the vertical dimension	00:00:10		
		1.06	S01	DES	00:00:36	RWWG1X_24ee1754-99c7-49	
		2.01	CC	Crack, circumferential from 4 o'clock to 11 o'clock	00:00:49	RWWG1X_ebeea0d1-1a22-45	2 / 2
		2.72	CS	Cracks, spiral from 9 o'clock to 5 o'clock	00:00:56	RWWG1X_86e6af7c-43b0-4f40	3 / 2
		3.07	F01	DES	00:01:04		4
		3.54	LR	Line deviates right	00:01:07		
		3.90	MHF	Finish node, manhole, reference: RWWG1	00:01:19	RWWG1X_4384b2d3-2055-40	

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
2	40.0	12.8	50.0	3.0	3	6.0	4.4	17.0	4.0

Section Pictures - 06/11/2024 - RWWG1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	RWWG1X		



RWWG1X_49ad36ae-da7d-49ee-94b4-dde70e189bdf_20241106_121936_081.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH1



RWWG1X_24ee1754-99c7-49c4-b9b0-5a0b47d49434_20241106_122018_704.jpg, 00:00:36, 1.06 m
Settled deposits, fine, 25% cross-sectional area loss, start



RWWG1X_ebeea0d1-1a22-453a-8d32-a98129a4e5da_20241106_122040_552.jpg, 00:00:49, 2.01 m
Crack, circumferential from 4 o'clock to 11 o'clock



RWWG1X_86e6af7c-43b0-4f40-9652-0ae3e08a8b3b_20241106_122100_357.jpg, 00:00:56, 2.72 m
Cracks, spiral from 9 o'clock to 5 o'clock

Section Pictures - 06/11/2024 - RWWG1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	RWWG1X		



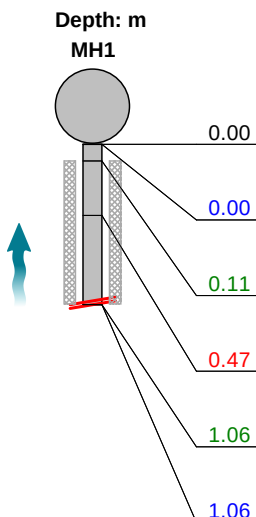
RWWG1X_4384b2d3-2055-4029-b383-258737eb219b_20241106_122159_184.jpg, 00:01:19, 3.90 m
Finish node, manhole, reference: RWWG1

Section Inspection - 06/11/2024 - UnknownX

Item No. 2	Insp. No. 1	Date 06/11/24	Time 12:17	Client's Job Ref Not Specified	Weather Not Specified	Pre Cleaned Not Specified	PLR UNKNOWNX
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Warminster	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN
Road:	The School House, 30 Kingston Deverill	Inspected Length:	1.06 m	Upstream Pipe Depth:	
Location:		Total Length:	1.06 m	Downstream Node:	MH1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	100 mm		
Flow Control:		Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:		Lining Material:	No Lining		

Comments:	
Recommendations:	

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: MH1	00:00:00	UnknownX_279483a8-278f-433	
		0.00	WL	Water level, 5% of the vertical dimension	00:00:06		
		0.11	S01	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:14	UnknownX_aa392f14-f072-4e23	
		0.47	FC	Fracture, circumferential from 12 o'clock to 4 o'clock	00:00:17	UnknownX_a8f858ec-b9ad-429	3 / 2
		1.06	F01	Settled deposits, fine, 100% cross-sectional area loss, finish	00:00:54		3
		1.06	SA	Survey abandoned: Unable to push any further	00:00:54	UnknownX_2daa6143-b7d1-4c	

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
1	40.0	37.7	40.0	3.0	2	3.0	2.8	3.0	4.0

Section Pictures - 06/11/2024 - UnknownX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	UNKNOWNX		



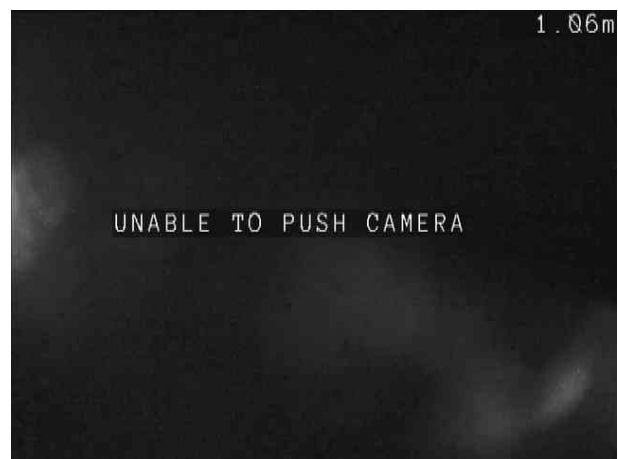
UnknownX_279483a8-278f-4339-bbc0-710ba6033481_20241106_122259_767.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH1



UnknownX_aa392f14-f072-4e23-8d57-0af68de4823c_20241106_122454_667.jpg, 00:00:14, 0.11 m
Settled deposits, fine, 15% cross-sectional area loss, start



UnknownX_a8f858ec-b9ad-4292-a37d-4d0c5fb1dbe1_20241106_122508_704.jpg, 00:00:17, 0.47 m
Fracture, circumferential from 12 o'clock to 4 o'clock



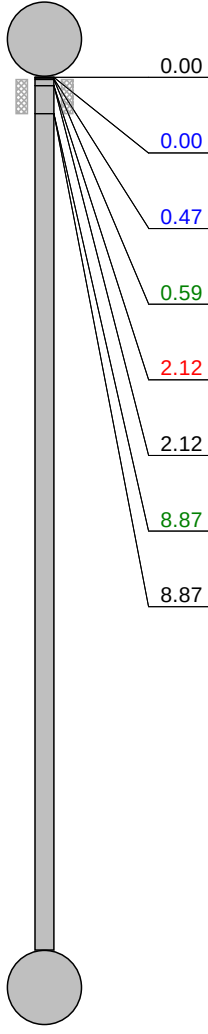
UnknownX_2daa6143-b7d1-4c95-85c5-b32cf428072e_20241106_122600_490.jpg, 00:00:54, 1.06 m
Survey abandoned, Unable to push any further

Section Inspection - 06/11/2024 - MH1X

Item No. 3	Insp. No. 1	Date 06/11/24	Time 12:17	Client's Job Ref Not Specified	Weather Not Specified	Pre Cleaned Not Specified	PLR MH1X
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Warminster	Inspection Direction:	Downstream	Upstream Node:	MH1
Road:	The School House, 30 Kingston Deverill	Inspected Length:	8.87 m	Upstream Pipe Depth:	
Location:		Total Length:	212.00 m	Downstream Node:	MH2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	100 mm		
Flow Control:		Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:		Lining Material:	No Lining		

Comments:	
Recommendations:	

Scale: 1:1836	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH1  MH2 Depth: m						
0.00	MH		Start node, manhole, reference: MH1	00:00:00	MH1X_86c 46113-21a 2-4684-b4	
0.00	WL		Water level, 5% of the vertical dimension	00:00:02		
0.47	WL		Water level, 15% of the vertical dimension	00:00:13		
0.59 S01	DES		Settled deposits, fine, 15% cross-sectional area loss, start	00:00:14	MH1X_e0 a5b025-16 50-4098-b	
2.12	B		Broken pipe from 9 o'clock to 3 o'clock	00:01:00	MH1X_14 7ddf87-d2 7d-45c7-b	4
2.12	SV		Soil visible beyond defect	00:01:00		
8.87 F01	DES		Settled deposits, fine, 30% cross-sectional area loss, finish	00:02:43		3
8.87	MHF		Finish node, manhole, reference: MH2	00:02:43	MH1X_76 9edb1c-83 9f-4c4d-9e	

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
1	80.0	0.4	80.0	4.0	1	2.0	0.1	18.0	3.0

Section Pictures - 06/11/2024 - MH1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X		



MH1X_86c46113-21a2-4684-b4e9-b0185ecbb131_20241106_122638_196.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH1



MH1X_e0a5b025-1650-4098-ba8a-69178dd9b2d3_20241106_122746_902.jpg, 00:00:14, 0.59 m
Settled deposits, fine, 15% cross-sectional area loss, start



MH1X_147ddf87-d27d-45c7-b92f-d7a50c0d1b6e_20241106_122857_182.jpg, 00:01:00, 2.12 m
Broken pipe from 9 o'clock to 3 o'clock



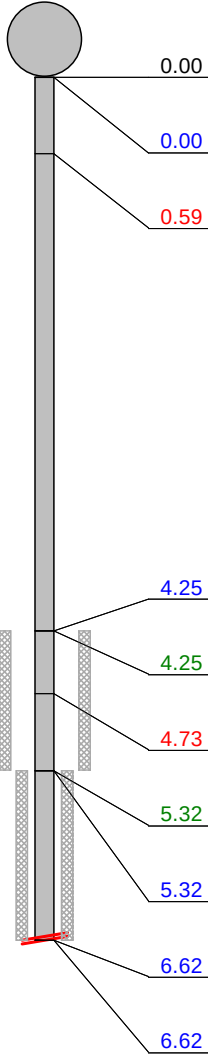
MH1X_769edb1c-839f-4c4d-9e71-f085b70d640a_20241106_123002_979.jpg, 00:02:43, 8.87 m
Finish node, manhole, reference: MH2

Section Inspection - 06/11/2024 - MH2X

Item No. 4	Insp. No. 1	Date 06/11/24	Time 12:17	Client's Job Ref Not Specified	Weather Not Specified	Pre Cleaned Not Specified	PLR MH2X
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Warminster	Inspection Direction:	Downstream	Upstream Node:	MH2
Road:	The School House, 30 Kingston Deverill	Inspected Length:	6.62 m	Upstream Pipe Depth:	
Location:		Total Length:	6.62 m	Downstream Node:	BOUNDARY
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	100 mm		
Flow Control:		Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:		Lining Material:	No Lining		

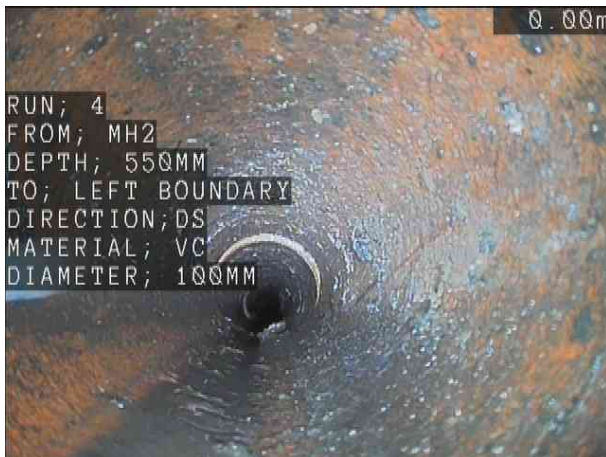
Comments:	
Recommendations:	

Scale:	1:58	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH2 							
		0.00	MH	Start node, manhole, reference: MH2	00:00:00	MH2X_e7 169c84-31 70-4491-9	
		0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
		0.59	CC	Crack, circumferential from 8 o'clock to 12 o'clock	00:00:16	MH2X_49 3d89ce-f5 28-4eec-a	2 / 2
		4.25	WL	Water level, 10% of the vertical dimension	00:00:32		
		4.25	S01	DES	00:00:34	MH2X_8dc a36d0-ac9 d-4d5f-a4d	
		4.73	CC	Crack, circumferential from 10 o'clock to 5 o'clock	00:00:35	MH2X_1b 3c6750-1a 7d-4961-8f	2 / 2
		5.32	F01	DES	00:00:40		3
		5.32	S02	CUZ	00:00:40	MH2X_2d 9429eb-9c da-4cae-b	
		6.62	F02	CUZ	00:01:12		
		6.62	SA	Survey abandoned: Unable to push any further	00:01:12	MH2X_b3 0a06e9-94 00-4b8c-9	

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
2	10.0	3.0	20.0	2.0	3	3.0	0.9	6.0	3.0

Section Pictures - 06/11/2024 - MH2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	MH2X		



MH2X_e7169c84-3170-4491-9726-611e78b67932_20241106_123105_207.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH2



MH2X_493d89ce-f528-4eec-a012-1d1f96db270c_20241106_123134_672.jpg, 00:00:16, 0.59 m
Crack, circumferential from 8 o'clock to 12 o'clock



MH2X_8dca36d0-ac9d-4d5f-a4de-f5b96a658363_20241106_123248_012.jpg, 00:00:34, 4.25 m
Settled deposits, fine, 15% cross-sectional area loss, start



MH2X_1b3c6750-1a7d-4961-8f1c-dcd46c15ad4a_20241106_123351_921.jpg, 00:00:35, 4.73 m
Crack, circumferential from 10 o'clock to 5 o'clock

Section Pictures - 06/11/2024 - MH2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	MH2X		



MH2X_2d9429eb-9cda-4cae-bcf0-36530c79a8d7_20241106_123439_472.jpg, 00:00:40, 5.32 m
Loss of vision, other, start, Silt and Water



MH2X_b30a06e9-9400-4b8c-9811-e8003fd2586e_20241106_123503_276.jpg, 00:01:12, 6.62 m
Survey abandoned, Unable to push any further

