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Project-information

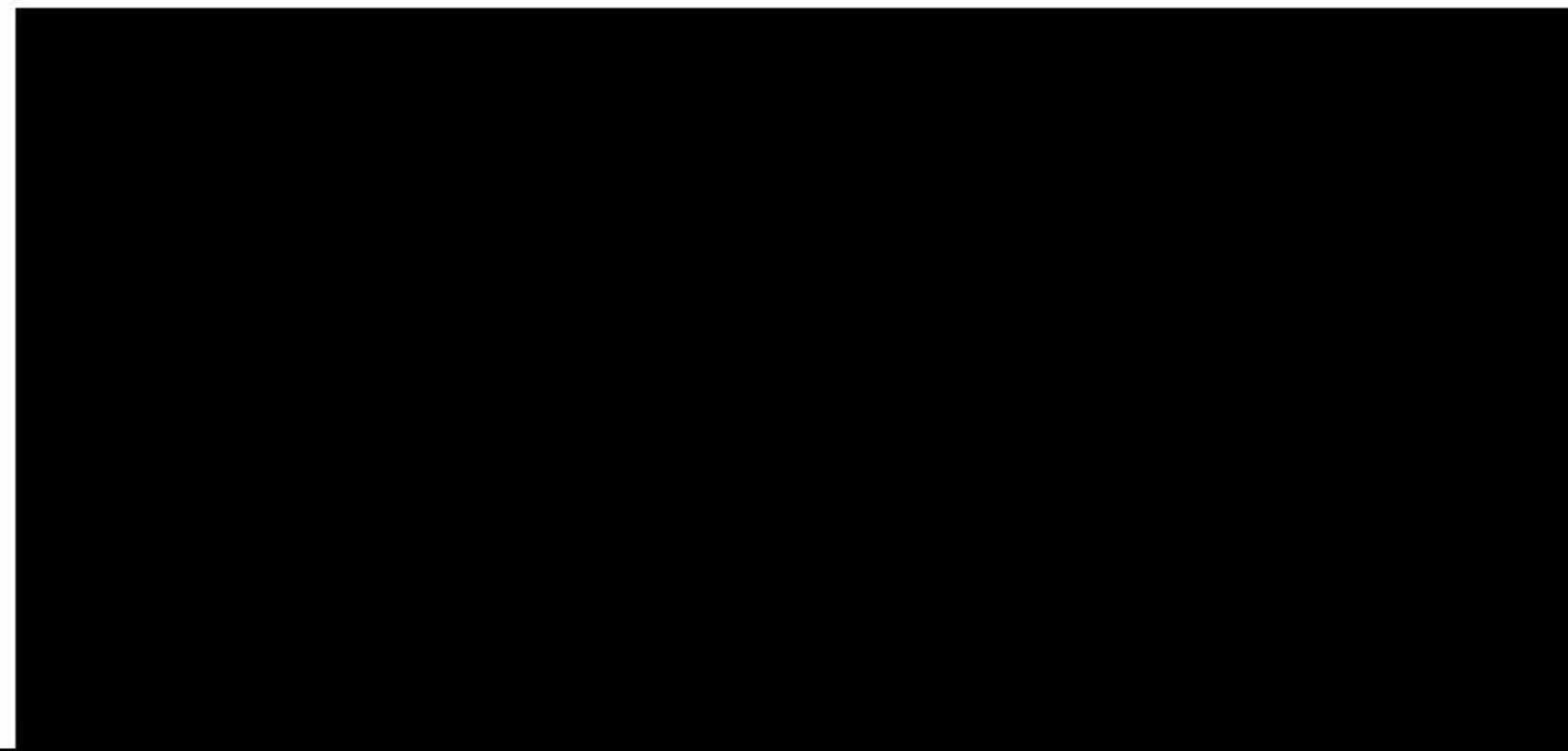
Project name :
Jonathan Ungar 15.4.14

Project Number :

Contact :

Date :
15/04/2014

Client: **Private Client**
Contact Name: **Jonathan Ungar**
Department:
Road: **84 St Aldates**
Town: **Oxford**
County: **Oxon**
Telephone:
Fax:
Mobile:
E-mail:



Site: **As client details.**
Contact Name:
Department:
Road:
Town:
County:
Telephone:
Fax:
Mobile:
E-mail:

Contractor **DrainTechnology (UK) Ltd**
Contact Name: **Paul Ferrito**
Department: **Surveying**
Road: **67 Lashford Lane**
Town: **Dry Sandford**
County: **Oxfordshire, OX13 6DZ**
Telephone:
Fax:
Mobile:
E-mail:





Project-information

Project name : Jonathan Ungar 15.4.14	Project Number :	Contact :	Date : 15/04/2014
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Notes:

Gullies 1 & 2 were both blocked and unable to survey.
MH3 upstream C was too short to survey.
MH3 upstream D had no camera access.

As most of the rear external drainage is to be replaced during future building works, there are no recommendations here.

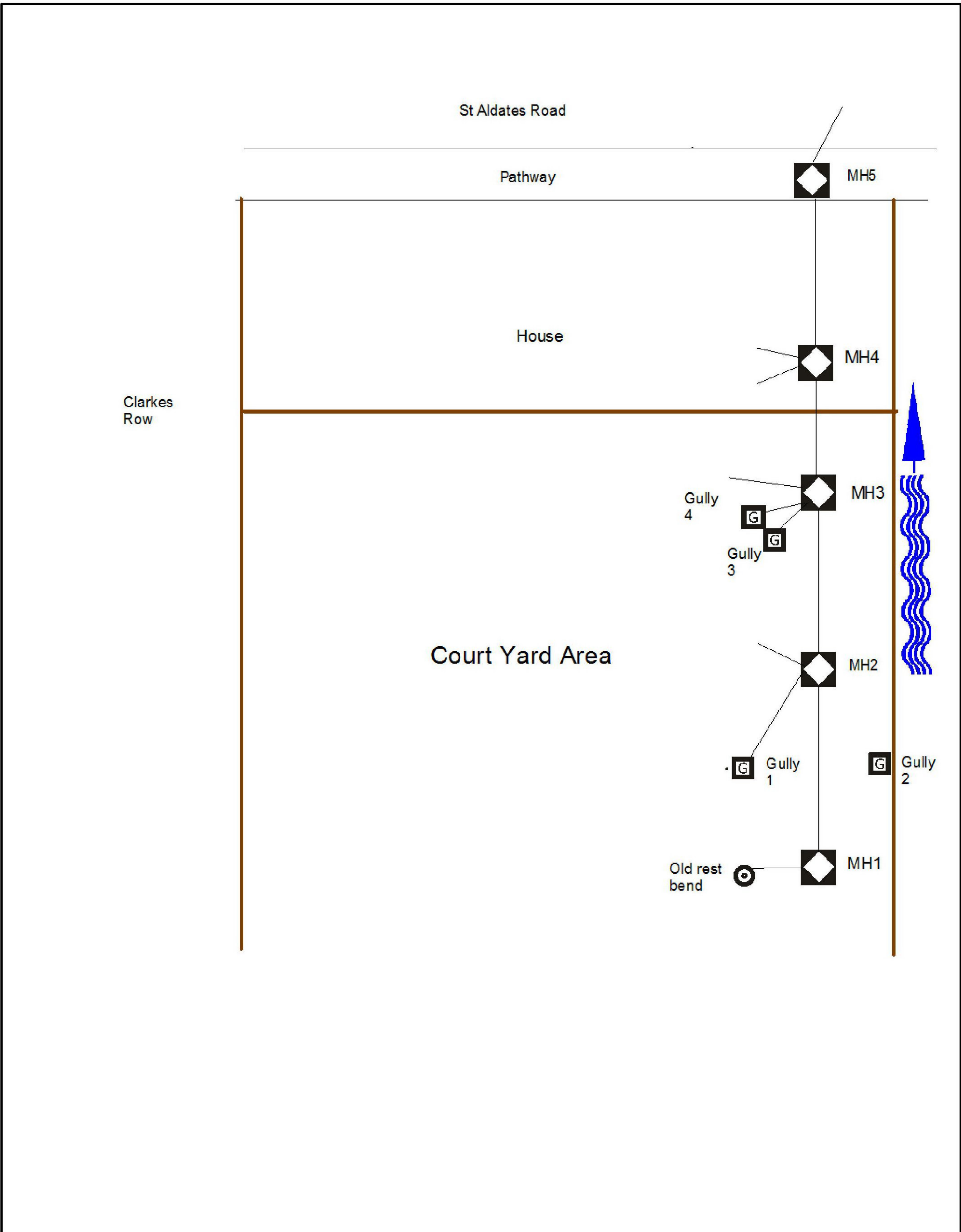
With regard to the internal drainage, manhole 4 downstream X to manhole 5 was in poor state holding water and will require degreasing and HPW jet cleaning to remove the scale and grease build up that has occurred over time.

MH5 downstream X to the main sewer, was in generally good condition, just requires light cleaning to remove some grease build up.



Project-information

Project name : Jonathan Ungar 15.4.14	Project Number :	Contact :	Date : 15/04/2014
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Defect Grade Description

Project Name :
Jonathan Ungar 15.4.14

Project number :

Contact :

Date :
29/04/2014

1:

Brick: No Structural Defects
 Pipe: No Structural Defects

Acceptable Structural Condition

2:

Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight
 Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight

Minor collapse risk in short term but potential for further deterioration

3:

Brick: Total mortarloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium
 Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint defects, Spalling medium, Wear medium

! Collapse unlikely in near future but future deterioration likely !

4:

Brick: Total mortarloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks
 Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multiple fractures, Serious loss of level, spalling large, wear large

!! Collapse likely in foreseeable future !!

5:

Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks
 Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10%

!!! Collapsed or collapse imminent !!!

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 1	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : MH1
Road : 84 ST ALDATES	Catchment:	U/S Depth : 0.24
Location Property with buildings	Tape number :	D/S MH : X
Inspection MH1 (D/S) X	Pipe Length	D/S Depth :

Use: Foul	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 8.35 m	Lining :

Comment : **The two holes may have had faulty repairs done.**

1:75 Depth: 0.24	Position	Observation	Photo
	MH1	Start node type, manhole reference number: MH1	
	0.00		
	0.00	Water level 0 % of the vertical dimension	
	3.52	Hole in drain/sewer from 10 O'Clock to 11 O'Clock POSS CONNECTION FOR GULLIES Remarks: POSS CONNECTION FOR GULLIES	2_2_4_A.jpg
	3.61	Attached deposits, encrustation from 4 O'Clock to 8 O'Clock 15 % cross-sectional area loss SCALE Remarks: SCALE	2_2_5_A.jpg
	5.55	Hole in drain/sewer from 10 O'Clock to 2 O'Clock	2_2_6_A.jpg
	8.35	Finish node type, manhole reference number: MH2	
	X		

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	165	29.34	245	5	1	2	0.24	2	3

Inspection pictures

Place : OXFORD	Road : 84 ST ALDATES	Date : 15/04/2014	Section number : 1	PLR Suffix : X
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Photo: 2_2_4_A.jpg
 3.52m, Hole in drain/sewer from 10 O'Clock to 11 O'Clock
 POSS CONNECTION FOR GULLIES



Photo: 2_2_5_A.jpg
 3.61m, Attached deposits, encrustation from 4 O'Clock to 8 O'Clock 15 % cross-sectional area loss SCALE



Photo: 2_2_6_A.jpg
 5.55m, Hole in drain/sewer from 10 O'Clock to 2 O'Clock

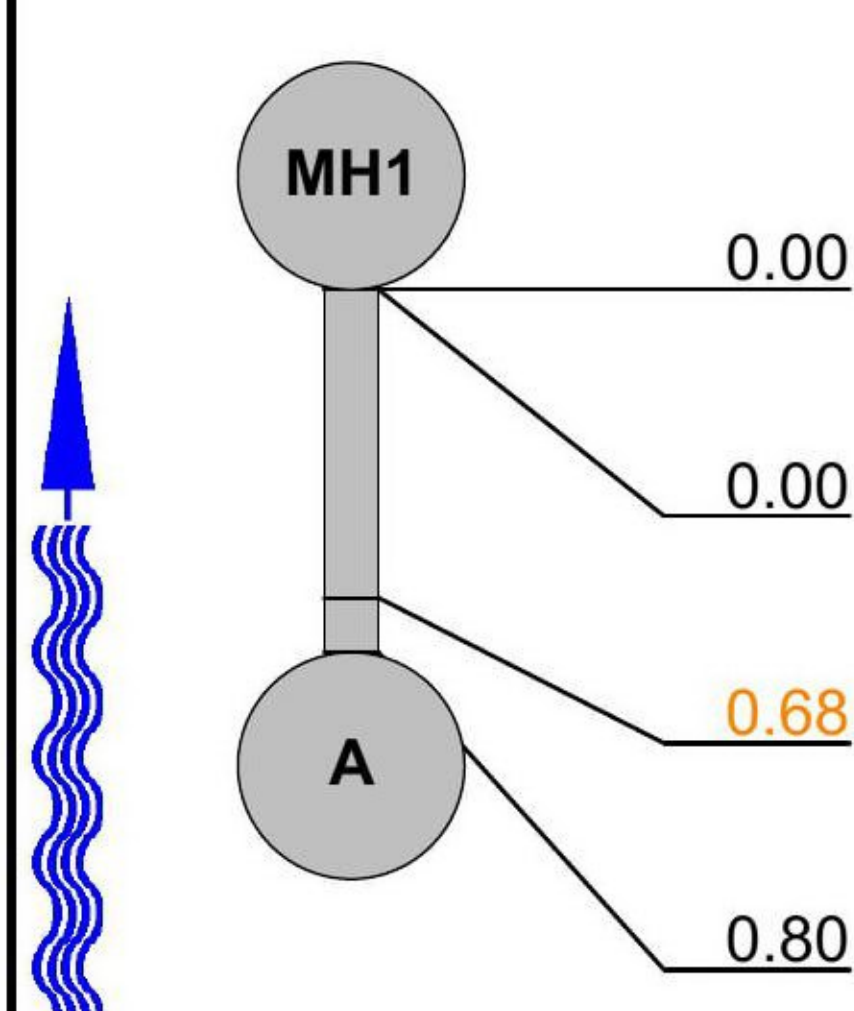
Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 2	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : A
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH1
Inspection MH1 (U/S) A	Pipe Length	D/S Depth :

Use: Foul	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 0.80 m	Lining :

Comment :

1:50	Position	Observation	Photo
		<p>Start node type, manhole reference number: MH1</p> <p>Water level 0 % of the vertical dimension</p> <p style="color: orange;">Settled deposits, coarse 5 % cross-sectional area loss</p> <p>Finish node type, other special chamber reference number: A END / POP UP Remarks: END / POP UP</p>	

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	1	1	2	2.5	2	4

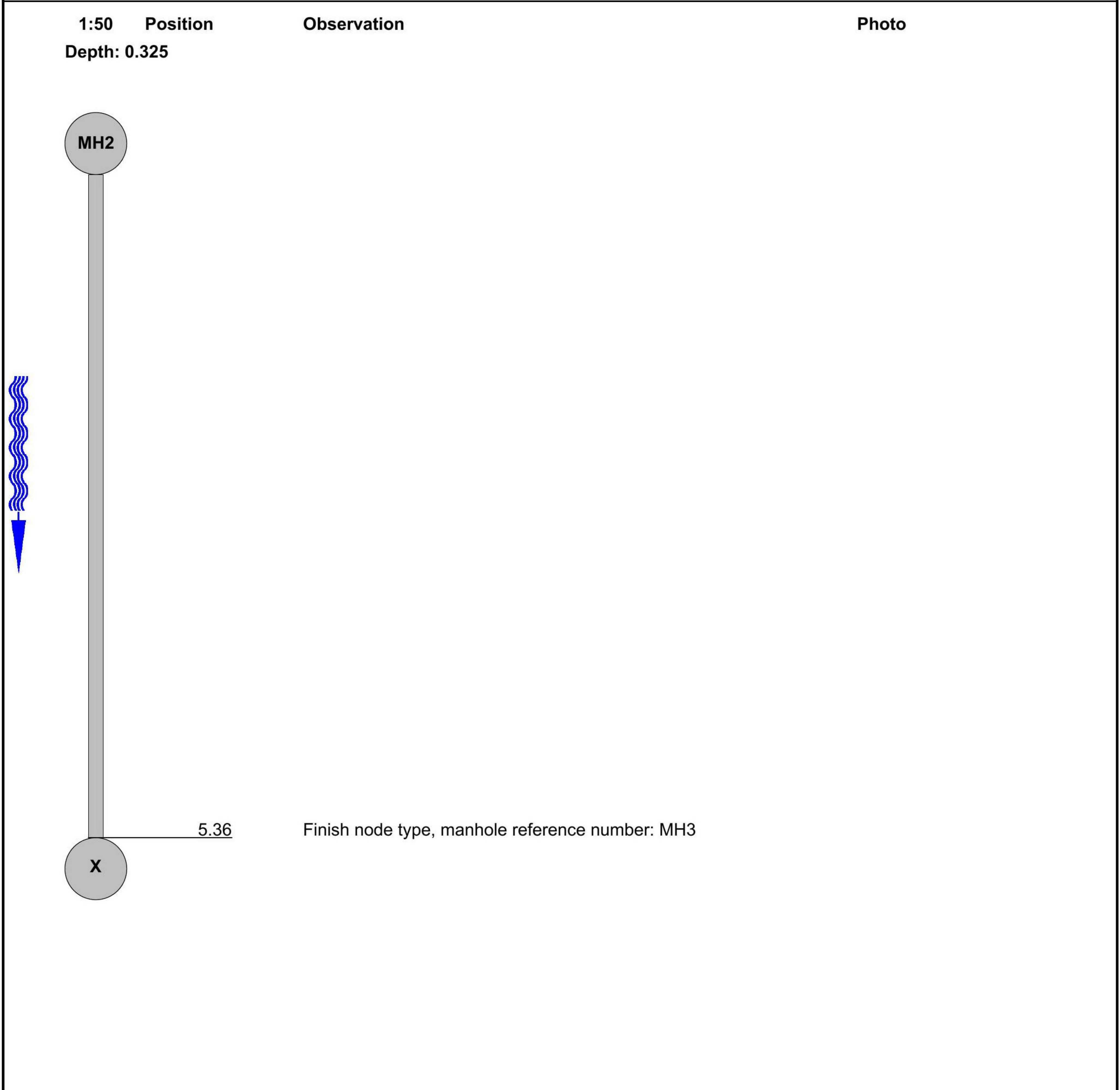
Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 3	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : MH2
Road : 84 ST ALDATES	Catchment:	U/S Depth : 0.325
Location Property with buildings	Tape number :	D/S MH : X
Inspection MH2 (D/S) X	Pipe Length	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 5.36 m	Lining :

Comment :



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	1	0	0	0	0	1

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 4	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : B
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH2
Inspection MH2 (U/S) B	Pipe Length	D/S Depth :
Use: Combined	Pipe shape : Circular	
Year laid :	Pipe size : 100 mm	
Purpose : Routine inspection of condition	Pipe material : Vitrified clay	
Total length : 3.81 m	Lining :	

Comment :

1:50	Position	Observation	Photo
	MH2	Start node type, manhole reference number: MH2	
	0.00		
	0.00	Water level 0 % of the vertical dimension	
	0.06	Roots, fine	
	0.99	S1 Roots, fine S1	5_5_18_A.jpg
	3.68	Settled deposits, fine 40 % cross-sectional area loss	
	3.73	F1 Roots, fine F1	5_5_20_A.jpg
	3.81	Survey abandoned CANNOT PASS SILT Remarks: CANNOT PASS SILT	

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	1	3	6	2.31	8.8	4



Inspection pictures

Place : OXFORD	Road : 84 ST ALDATES	Date : 15/04/2014	Section number : 4	PLR Suffix : X
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Photo: 5_5_18_A.jpg
0.99m, Roots, fine S1



Photo: 5_5_20_A.jpg
3.73m, Roots, fine F1

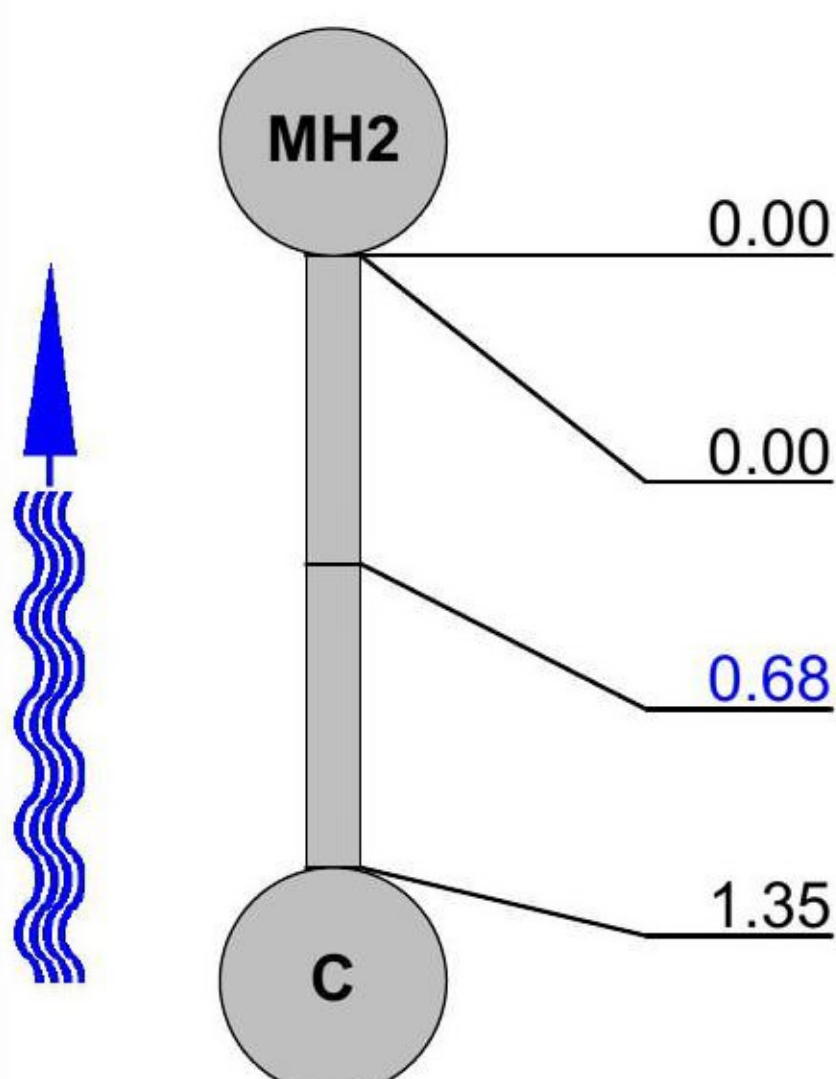
Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 5	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : C
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH2
Inspection MH2 (U/S) C	Pipe Length	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 1.35 m	Lining :

Comment :

1:50	Position	Observation	Photo
		<p>Start node type, manhole reference number: MH2</p> <p>Water level 0 % of the vertical dimension</p> <p style="color: blue;">Roots, fine</p> <p>Finish node type, other special chamber reference number: C END / POP UP Remarks: END / POP UP</p>	

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	1	1	1	0.74	1	2

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 6	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : MH3
Road : 84 ST ALDATES	Catchment:	U/S Depth : 0.43
Location Property with buildings	Tape number :	D/S MH : X
Inspection MH3 (D/S) X	Pipe Length	D/S Depth :
Use: Combined	Pipe shape : Circular	
Year laid :	Pipe size : 100 mm	
Purpose : Routine inspection of condition	Pipe material : Vitrified clay	
Total length : 2.64 m	Lining :	

Comment :

1:50 Depth: 0.43	Position	Observation	Photo
	MH3	Start node type, manhole reference number: MH3	
	0.02	Water level 0 % of the vertical dimension	
	0.34	Material changes CAST IRON @REM	
	1.23	Settled deposits, coarse 5 % cross-sectional area loss	
	2.28	Water level 5 % of the vertical dimension	
	2.31	Attached deposits, fouling at 6 O'Clock 5 % cross-sectional area loss	
	2.64	Finish node type, manhole reference number: MH4 INTERNAL Remarks: INTERNAL	

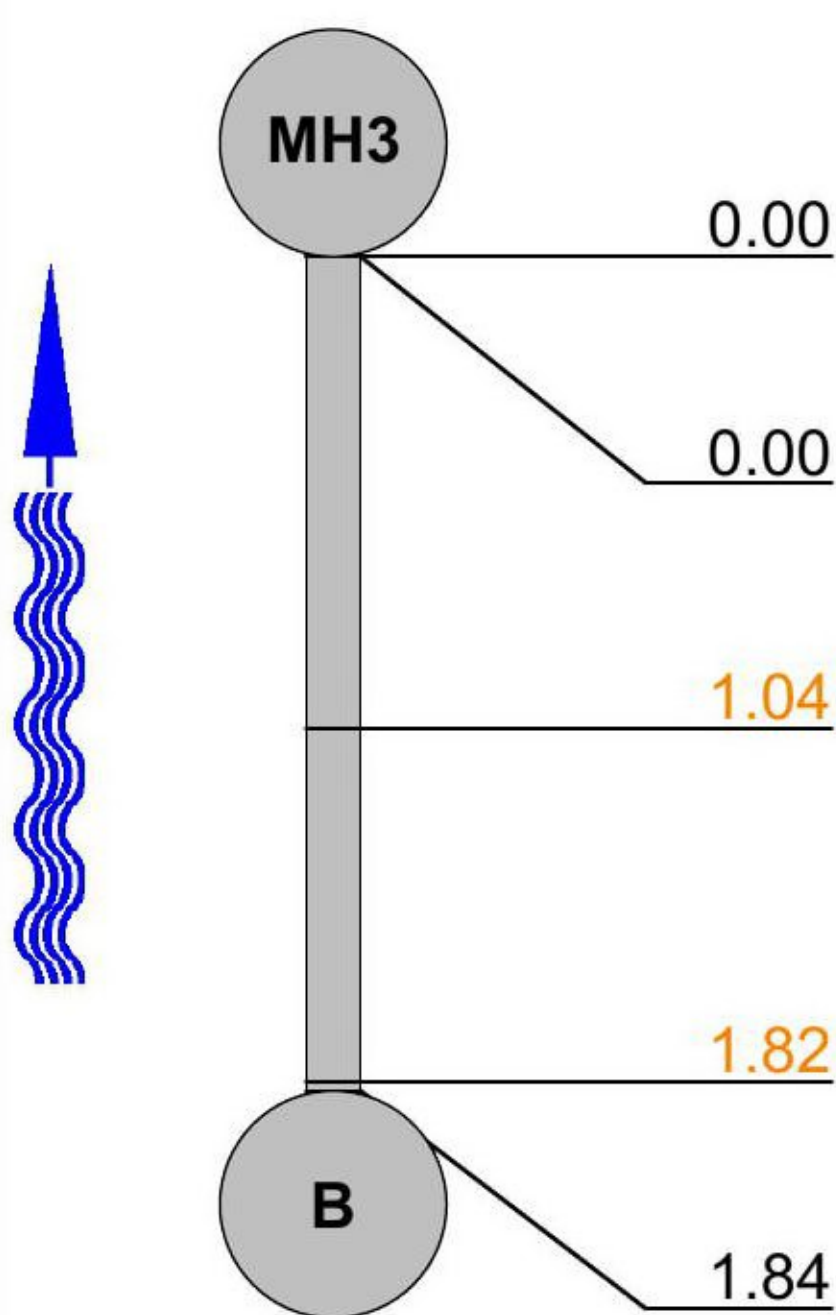
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	2	2	1.52	4	3

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 7	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : B
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH3
Inspection MH3 (U/S) B	Pipe Length	D/S Depth :
Use: Combined	Pipe shape : Circular	
Year laid :	Pipe size : 100 mm	
Purpose : Routine inspection of condition	Pipe material : Vitrified clay	
Total length : 1.84 m	Lining :	

Comment :

1:50	Position	Observation	Photo
		<p>Start node type, manhole reference number: MH3</p> <p>Water level 0 % of the vertical dimension</p> <p>Attached deposits, encrustation from 4 O'Clock to 7 O'Clock 10 % cross-sectional area loss</p> <p>Attached deposits, encrustation at 6 O'Clock 5 % cross-sectional area loss</p> <p>Finish node type, gully reference number: B END Remarks: END</p>	

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	1	2	2	2.17	4	3

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 8	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : MH4
Road : 84 ST ALDATES	Catchment:	U/S Depth : 0.64
Location Property with buildings	Tape number :	D/S MH : X
Inspection MH4 (D/S) X	Pipe Length	D/S Depth :
Use: Combined	Pipe shape : Circular	
Year laid :	Pipe size : 100 mm	
Purpose : Routine inspection of condition	Pipe material : Cast iron	
Total length : 4.47 m	Lining :	

Comment :

1:50 Depth: 0.64	Position	Observation	Photo
	MH4	Start node type, manhole reference number: MH4	
	0.00	Water level 0 % of the vertical dimension	
	0.60	General remark POSS HOLE OR CONNECTION Remarks: POSS HOLE OR CONNECTION	9_9_40_A.jpg
	1.80	S1 Attached deposits, encrustation from 1 O'Clock to 12 O'Clock 10 % cross-sectional area loss S1	
	2.50	Water level 5 % of the vertical dimension	
	2.60	Attached deposits, encrustation from 5 O'Clock to 7 O'Clock 20 % cross-sectional area loss	9_9_43_A.jpg
	3.20	Water level 10 % of the vertical dimension	9_9_44_A.jpg
	3.40	F1 Attached deposits, encrustation from 1 O'Clock to 12 O'Clock 10 % cross-sectional area loss F1	
	3.40	Attached deposits, encrustation from 1 O'Clock to 12 O'Clock 29 % cross-sectional area loss	
	4.10	F2 Attached deposits, grease from 1 O'Clock to 12 O'Clock 50 % cross-sectional area loss F2	9_9_50_A.jpg
	4.10	S2 Attached deposits, grease from 1 O'Clock to 12 O'Clock 50 % cross-sectional area loss S2	
	4.10	Water level 30 % of the vertical dimension	
	4.40	Survey abandoned UNABLE TO PASS GREASE Remarks: UNABLE TO PASS GREASE	
	4.40	Loss of vision, camera under water	

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	1	4	15	4.74	21.2	5

Inspection pictures

Place :
OXFORD

Road :
84 ST ALDATES

Date :
15/04/2014

Section number :
8

PLR Suffix :
X



Photo: 9_9_40_A.jpg
0.6m, General remark POSS HOLE OR CONNECTION



Photo: 9_9_43_A.jpg
2.6m, Attached deposits, encrustation from 5 O'Clock to 7 O'Clock 20 % cross-sectional area loss



Photo: 9_9_44_A.jpg
3.2m, Water level 10 % of the vertical dimension

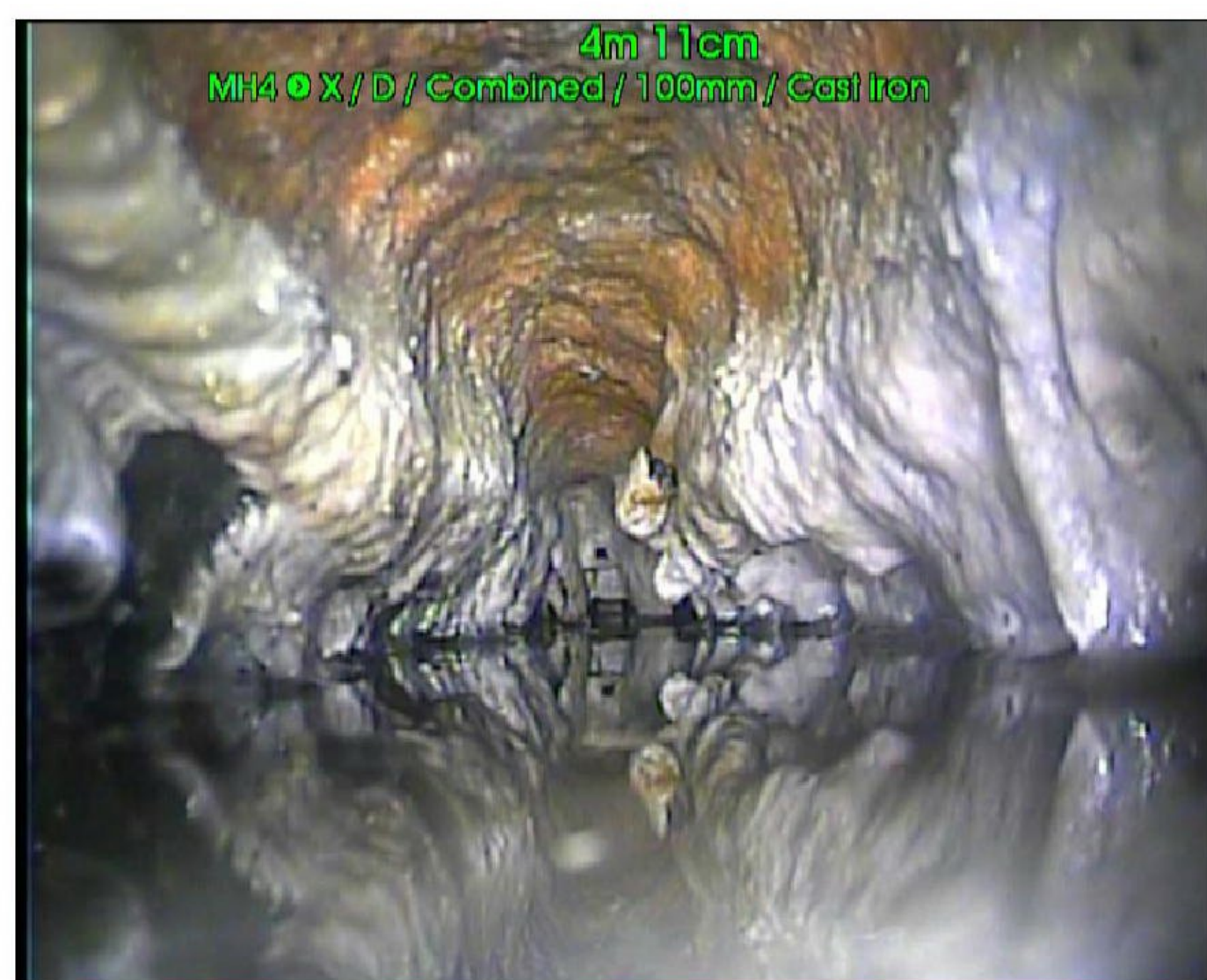


Photo: 9_9_50_A.jpg
4.1m, Attached deposits, grease from 1 O'Clock to 12 O'Clock 50 % cross-sectional area loss F2

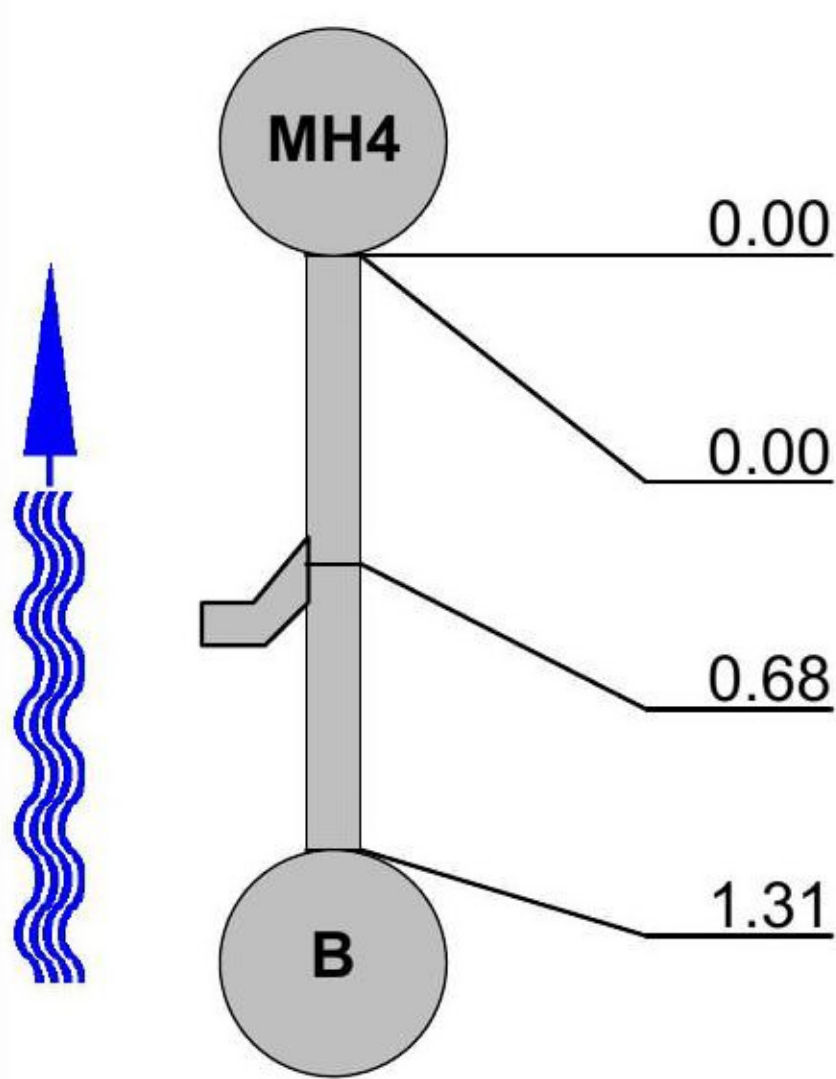
Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 9	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : B
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH4
Inspection MH4 (U/S) B	Pipe Length	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 1.31 m	Lining :

Comment :

1:50	Position	Observation	Photo
		<p>Start node type, manhole reference number: MH4</p> <p>Water level 0 % of the vertical dimension</p> <p>Junction from 1 O'Clock diameter: 100 mm</p> <p>Finish node type, other special chamber reference number: B END SVP Remarks: END SVP</p>	

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	1	0	0	0	0	1

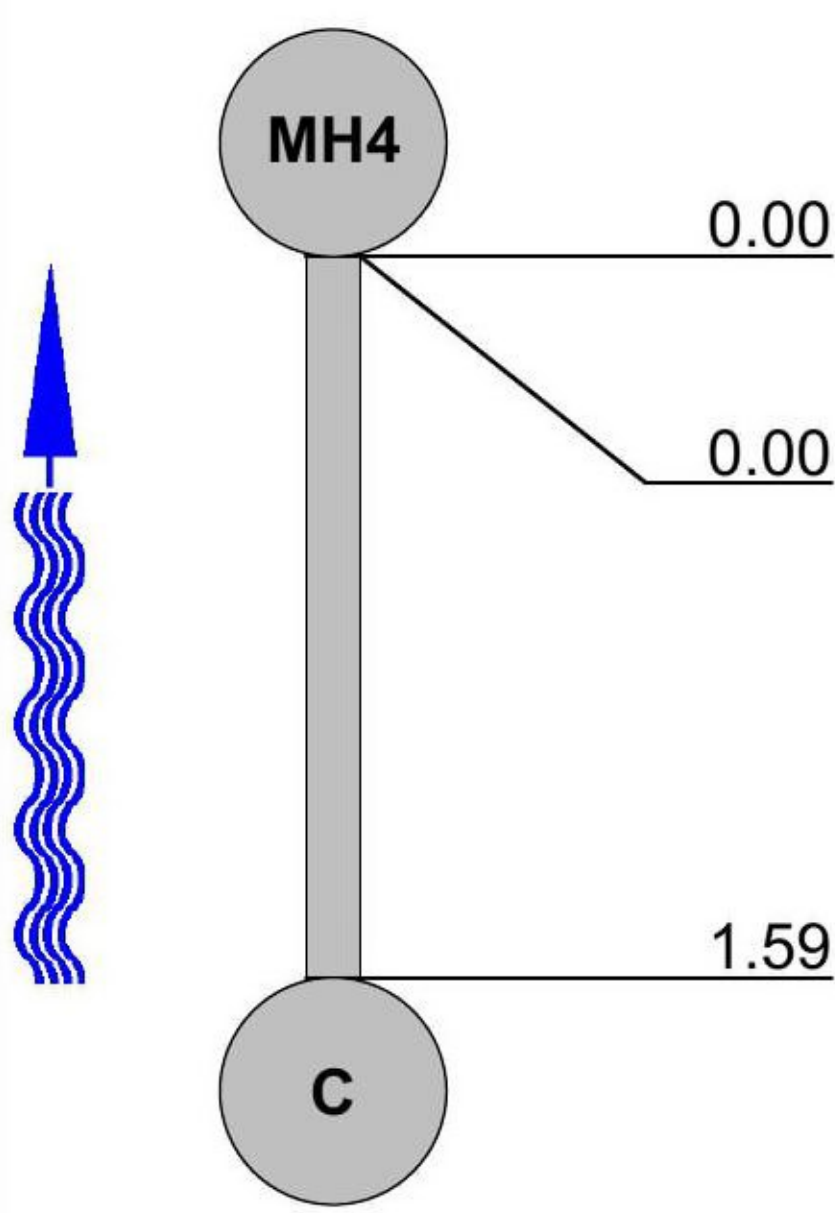
Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 10	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : C
Road : 84 ST ALDATES	Catchment:	U/S Depth :
Location Property with buildings	Tape number :	D/S MH : MH4
Inspection MH4 (U/S) C	Pipe Length	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 1.59 m	Lining :

Comment :

1:50	Position	Observation	Photo
		<p>Start node type, manhole reference number: MH4</p> <p>Water level 0 % of the vertical dimension</p> <p>Finish node type, other special chamber reference number: C END SVP Remarks: END SVP</p>	

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	1	0	0	0	0	1

Inspection report

Date : 15/04/2014	Job number : Jonathan Ungar	Weather : no rain or snow	Operator : DTL01PF	Section number : 11	PLR SUFFIX: X
Weather no rain or snow	Vehicle :	Camera :	Preset :	Cleaned : no	Operator : DTL01PF

Place : OXFORD	Location details:	U/S MH : MH5
Road : 84 ST ALDATES	Catchment:	U/S Depth : 0.73
Location Property with buildings	Tape number :	D/S MH : X
Inspection MH5 (D/S) X	Pipe Length	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid :	Pipe size : 100 mm
Purpose : Routine inspection of condition	Pipe material : Vitrified clay
Total length : 7.37 m	Lining :

Comment :

1:60 Position Depth: 0.73	Observation	Photo
	<p>Start node type, manhole reference number: MH5</p> <p>General remark INTERCEPTOR Remarks: INTERCEPTOR</p> <p>Water level 0 % of the vertical dimension</p> <p>Shape changes to circular 150 mm high</p> <p>Line deviates down QUARTER Remarks: QUARTER</p> <p>S1 Attached deposits, grease from 1 O'Clock to 12 O'Clock 10 % cross-sectional area loss S1</p> <p>F1 Attached deposits, grease from 1 O'Clock to 12 O'Clock 10 % cross-sectional area loss F1</p> <p>Finish node type, other special chamber reference number: X BLIND CONNECTION MAIN Remarks: BLIND CONNECTION MAIN</p>	

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	1	1	1.6	0.22	1.6	2