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50 Silvester Road**Project Number****Project Date**
14/10/2019

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Project Information

Project Name
50 Silvester Road

Project Number

Project Date
14/10/2019

Client

Contact: Chris Flint
Street: 50 Silvester Road
Town or City: Waterlooville
County: Hampshire

Contractor

Company: 24/7 Drainage Solutions Ltd
Contact: Lee Moore
Street: 27 Murray Road
Town or City: Waterlooville
County: Hampshire
Post Code: PO8 9JE
Phone: 02392429417

Project Information

Project Name
50 Silvester Road

Project Number

Project Date
14/10/2019

Project Notes

CCTV SURVEY SUMMARY

SVP to MH1 debris was found sitting in line so high pressure jetting will be needed to remove this debris to restore full flow, the survey had to be abandoned as i could not round one of the 90 bends.

Survey continued from MH1 upstream and found there to be sevral points of roots ingress and cracks in this line, This line would benefit from having a chamber installed on the 90 bend where the survey had to be abandoned this will give beter access to the drain to carry out the needed works, This line needs a root cut and a 16m liner.

MH1 to MH2 was found to have a large amounts of cracks and sevral points of root ingress this line will need high pressure jetting to remove all of the roots and debris and then install a 19m liner to prevent any of the roots from coming back and to prevent the cracks getting any worse.

the interceptor its self was found to be broken and will need to be removed/ dug out and new straight section of pipe connected through before these drains can go live as they would block immediately.

Quote.

SVP to MH1 carry root cut on drain in prep for the 16m liner, supply and install new 300mm osma inspection chamber at front of property. once chamber is in place the 16m liner can be installed.



Project Information

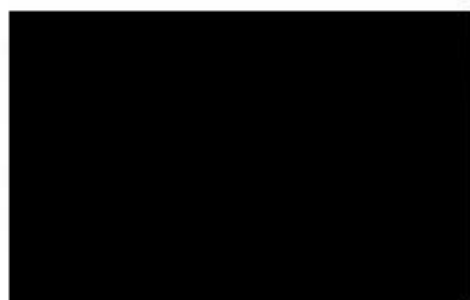
Project Name
50 Silvester Road

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MH1 to MH2 will also require a root cut in prep for the 19m liner once high pressure jetting has been used to fully clear lines the liner can be installed.



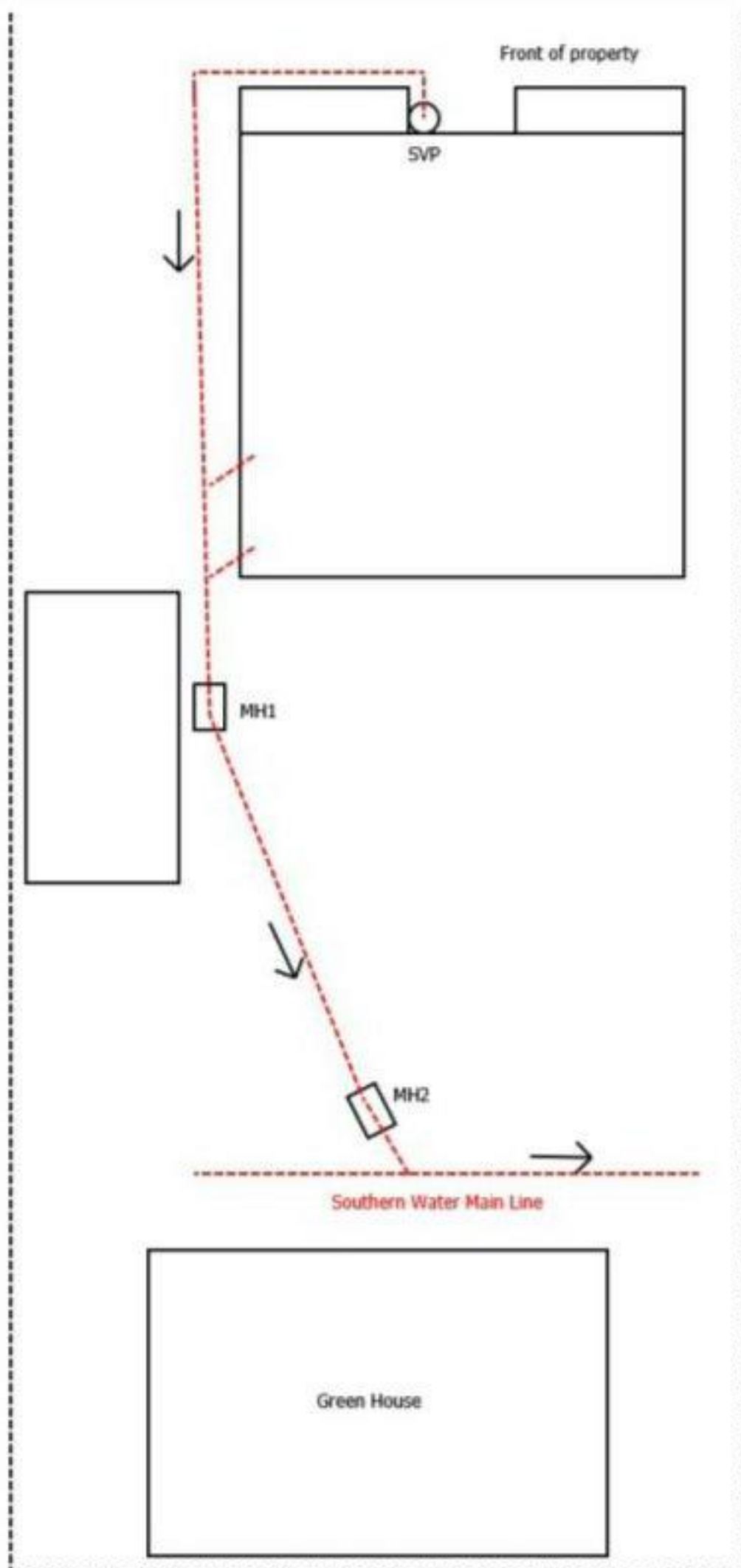
Project Information

Project Name
50 Silvester Road

Project Number

Project Date
14/10/2019

Project Drawing





Section Profile

Project Name
50 Silvester Road**Project Number****Project Date**
14/10/2019

Circular, 100 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
3	MH1	MH2	10/10/2019	50 SILVESTER ROAD	Vitrified clay pipe (i.e. all clayware)	18.09 m	18.09 m
4	MH2	MAIN	10/10/2019	50 SILVESTER ROAD	Vitrified clay pipe (i.e. all clayware)	1.52 m	1.52 m

Total: 2 Inspections x Circular 100 mm = 19.61 m Total Length and 19.61 m Inspected Length**Total: 2 Inspections = 19.61 m Total Length and 19.61 m Inspected Length**

Section Summary

Project Name 50 Silvester Road	Project Number	Project Date 14/10/2019
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Number of sections	4
Total length of sewer network	41.46 m
Total length of inspections	41.46 m
Total length of abandoned inspections	0.00 m
Total abandoned inspections	2
Number of section inspection photos	40
Number of section inspection videos	4
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	RE1X	Upstream Node:	RE1
Inspection Direction:	Downstream	Downstream Node:	MH1
Inspected Length:	1.75 m	Dia/Height:	100 mm
Total Length:	1.75 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)

No.	m+	Code	Observation
1	0.00	RE	Start node type, rodding eye, reference number: RE1
2	0.00	WL	Water level, 0 % of the vertical dimension
3	0.76	JN	Junction, at 09 o'clock, diameter: 100 mm
4	1.14	RF	Roots, fine
5	1.33	LL	Line deviates left
6	1.75	SA	Survey abandoned, UNABLE TO PASS BEND DEBRIS ALSO IN LINE

PLR:	SVPX	Upstream Node:	SVP
Inspection Direction:	Upstream	Downstream Node:	MH1
Inspected Length:	20.10 m	Dia/Height:	100 mm
Total Length:	20.10 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH1
2	0.00	WL	Water level, 0 % of the vertical dimension
3	3.65	JN	Junction, at 03 o'clock, diameter: 100 mm
4	7.56	RM	Roots, mass, 10 % cross-sectional area loss
5	8.32	JN	Junction, at 03 o'clock, diameter: 100 mm
6	10.15	RF	Roots, fine
7	13.83	RF	Roots, fine
8	16.26	LR	Line deviates right
9	17.52	JD	Joint displaced, 10 mm displacement
10	18.32	JD	Joint displaced, 10 mm displacement

Section Summary

Project Name 50 Silvester Road	Project Number	Project Date 14/10/2019
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No.	m+	Code	Observation
11	19.68	JD	Joint displaced, 10 mm displacement
12	20.10	SA	Survey abandoned, UNABLE TO PASS DEBRIS

PLR:	MH1X	Upstream Node:	MH1
Inspection Direction:	Downstream	Downstream Node:	MH2
Inspected Length:	18.09 m	Dia/Height:	100 mm
Total Length:	18.09 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH1
2	0.00	WL	Water level, 0 % of the vertical dimension
3	0.00	MHF	Finish node type, manhole, reference number: MH2
4	1.48	CC	Crack, circumferential, from 03 to 10 o'clock
5	2.70	CC	Crack, circumferential, from 06 to 12 o'clock
6	3.46	CC	Crack, circumferential, from 12 to 06 o'clock
7	4.60	CC	Crack, circumferential, from 12 to 12 o'clock
8	5.43	CC	Crack, circumferential, from 12 to 12 o'clock
9	6.12	CC	Crack, circumferential, from 12 to 12 o'clock
10	7.37	CC	Crack, circumferential, from 12 to 12 o'clock
11	8.63	CC	Crack, circumferential, from 12 to 12 o'clock
12	10.64	CC	Crack, circumferential, from 12 to 12 o'clock
13	11.82	CC	Crack, circumferential, from 12 to 12 o'clock
14	12.43	RF	Roots, fine
15	13.15	RF	Roots, fine
16	13.72	RF	Roots, fine
17	15.01	RM	Roots, mass, 40 % cross-sectional area loss
18	17.37	RF	Roots, fine
19	18.09	JD	Joint displaced, 20 mm displacement, DISPLACED INTO MANHOLE

PLR:	MH2X	Upstream Node:	MH2
Inspection Direction:	Downstream	Downstream Node:	MAIN
Inspected Length:	1.52 m	Dia/Height:	100 mm
Total Length:	1.52 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH2
2	0.00	WL	Water level, 0 % of the vertical dimension
3	0.49	RF	Roots, fine
4	1.52	BRF	Finish node type, major connection without manhole, reference number: MAIN

Section Inspection - 10/10/2019 - RE1X

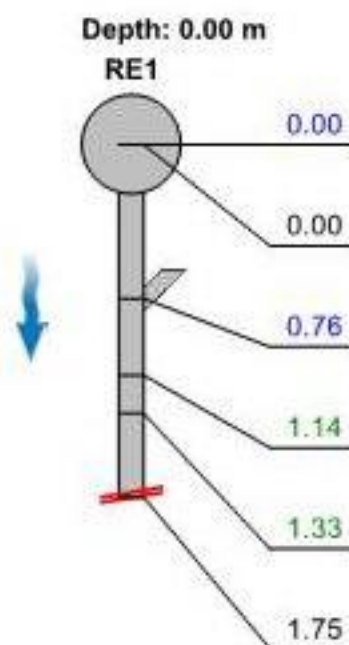
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	10/10/19	8:42	01	No Rain Or Snow	No	RE1X
Operator JOE BAKER		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Waterlooville	Inspection Direction:	Downstream	Upstream Node:	RE1
Road:	50 Silvester Road	Inspected Length:	1.75 m	Upstream Pipe Depth:	0.000 m
Location:	Difficult access	Total Length:	1.75 m	Downstream Node:	MH1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.000 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

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



0.00	RE	Start node type, rodding eye, reference number: RE1	00:00:01
0.00	WL	Water level, 0 % of the vertical dimension	00:00:04
0.76	JN	Junction, at 09 o'clock, diameter: 100 mm	00:00:30
1.14	RF	Roots, fine	00:00:59
1.33	LL	Line deviates left	00:01:15
1.75	SA	Survey abandoned: UNABLE TO PASS BEND DEBRIS ALSO IN LINE	00:01:48

Construction Features

Structural Defects

Miscellaneous Features

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	1	1.0	0.6	1.0	2.0

Section Pictures - 10/10/2019 - RE1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	RE1X	01	



20191010-084757-snap0000.jpg, 00:00:01, 0.00 m
 Start node type, rodding eye, reference number: RE1



20191010-084757-snap0001.jpg, 00:00:04, 0.00 m
 Water level, 0 % of the vertical dimension

Section Pictures - 10/10/2019 - RE1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	RE1X	01	



20191010-084757-snap0002.jpg, 00:00:30, 0.76 m
 Junction, at 09 o'clock, diameter: 100 mm



20191010-084757-snap0003.jpg, 00:00:59, 1.14 m
 Roots, fine

Section Pictures - 10/10/2019 - RE1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	RE1X	01	



20191010-084757-snap0004.jpg, 00:01:15, 1.33 m
 Line deviates left



20191010-084757-snap0005.jpg, 00:01:48, 1.75 m
 Survey abandoned

Section Inspection - 10/10/2019 - SVPX

Section 2	Inspection 2	Date 10/10/19	Time 8:57	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR SVPX
Operator JOE BAKER	Vehicle Not Specified	Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Town or Village:	Waterlooville	Inspection Direction:	Upstream	Upstream Node:	SVP
Road:	50 Silvester Road	Inspected Length:	20.10 m	Upstream Pipe Depth:	0.100 m
Location:	Difficult access	Total Length:	20.10 m	Downstream Node:	MH1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.500 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection of condition	Lining Material:	No Lining		

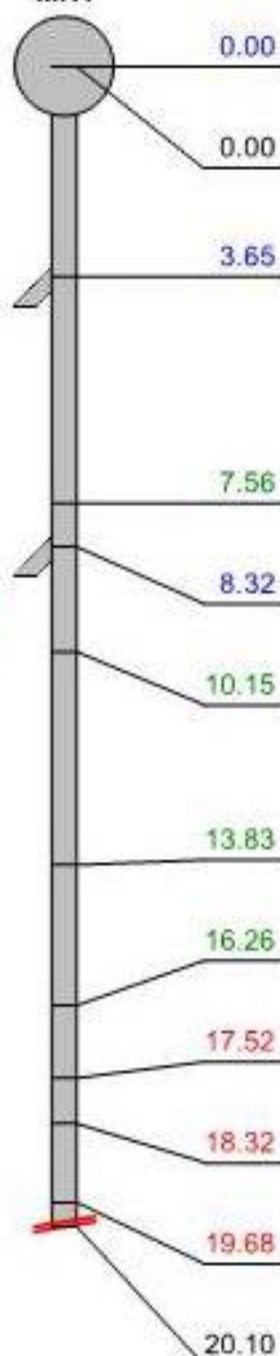
Comments:

Recommendations:

Scale: 1:175 Position [m] Code Observation MPEG Photo Grade

Depth: 0.50 m

MH1



0.00	MH	Start node type, manhole, reference number: MH1	00:00:02		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:06		
3.65	JN	Junction, at 03 o'clock, diameter: 100 mm	00:00:34		
7.56	RM	Roots, mass, 10 % cross-sectional area loss	00:01:29		3
8.32	JN	Junction, at 03 o'clock, diameter: 100 mm	00:01:48		
10.15	RF	Roots, fine	00:02:32		2
13.83	RF	Roots, fine	00:03:15		2
16.26	LR	Line deviates right	00:04:06		
17.52	JD	Joint displaced, 10 mm displacement	00:04:25		1
18.32	JD	Joint displaced, 10 mm displacement	00:05:11		1
19.68	JD	Joint displaced, 10 mm displacement	00:05:58		1
20.10	SA	Survey abandoned: UNABLE TO PASS DEBRIS	00:06:23		

Construction Features

Structural Defects

Miscellaneous Features

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
3	2.0	0.3	6.0	1.0	3	4.0	0.3	6.0	3.0

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0000.jpg, 00:00:02, 0.00 m
 Start node type, manhole, reference number: MH1



20191010-085806-snap0001.jpg, 00:00:06, 0.00 m
 Water level, 0 % of the vertical dimension

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0002.jpg, 00:00:34, 3.65 m
 Junction, at 03 o'clock, diameter: 100 mm



20191010-085806-snap0003.jpg, 00:01:29, 7.56 m
 Roots, mass, 10 % cross-sectional area loss

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0004.jpg, 00:01:48, 8.32 m
 Junction, at 03 o'clock, diameter: 100 mm



20191010-085806-snap0005.jpg, 00:02:32, 10.15 m
 Roots, fine

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0006.jpg, 00:03:15, 13.83 m
 Roots, fine



20191010-085806-snap0007.jpg, 00:04:06, 16.26 m
 Line deviates right

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0008.jpg, 00:04:25, 17.52 m
 Joint displaced, 10 mm displacement



20191010-085806-snap0009.jpg, 00:05:11, 18.32 m
 Joint displaced, 10 mm displacement

Section Pictures - 10/10/2019 - SVPX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SVPX	01	



20191010-085806-snap0010.jpg, 00:05:58, 19.68 m
 Joint displaced, 10 mm displacement



20191010-085806-snap0011.jpg, 00:06:23, 20.10 m
 Survey abandoned

Section Inspection - 10/10/2019 - MH1X

Section 3	Inspection 3	Date 10/10/19	Time 9:07	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR MH1X
Operator JOE BAKER	Vehicle Not Specified	Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Town or Village:	Waterlooville	Inspection Direction:	Downstream	Upstream Node:	MH1
Road:	50 Silvester Road	Inspected Length:	18.09 m	Upstream Pipe Depth:	0.500 m
Location:	Difficult access	Total Length:	18.09 m	Downstream Node:	MH2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.600 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:117	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node type, manhole, reference number: MH1	00:00:01		
	0.00	WL	Water level, 0 % of the vertical dimension	00:00:03		
	0.00	MHF	Finish node type, manhole, reference number: MH2	00:12:42		
	1.48	CC	Crack, circumferential, from 03 to 10 o'clock	00:00:26		2
	2.70	CC	Crack, circumferential, from 06 to 12 o'clock	00:00:47		2
	3.46	CC	Crack, circumferential, from 12 to 06 o'clock	00:01:19		2
	4.60	CC	Crack, circumferential, from 12 to 12 o'clock	00:01:42		2
	5.43	CC	Crack, circumferential, from 12 to 12 o'clock	00:02:01		2
	6.12	CC	Crack, circumferential, from 12 to 12 o'clock	00:02:24		2
	7.37	CC	Crack, circumferential, from 12 to 12 o'clock	00:02:44		2
	8.63	CC	Crack, circumferential, from 12 to 12 o'clock	00:03:05		2
	10.64	CC	Crack, circumferential, from 12 to 12 o'clock	00:03:32		2
	11.82	CC	Crack, circumferential, from 12 to 12 o'clock	00:03:56		2
	12.43	RF	Roots, fine	00:04:12		2
	13.15	RF	Roots, fine	00:04:23		2

Section Inspection - 10/10/2019 - MH1X

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	3	10/10/19	9:07	01	No Rain Or Snow	No	MH1X
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID		
JOE BAKER	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified		

Scale: 1:117	Position [m]	Code	Observation	MPEG	Photo	Grade
MH2 Depth: 0.60 m	13.72	RF	Roots, fine	00:04:35		2
	15.01	RM	Roots, mass, 40 % cross-sectional area loss	00:05:03		5
	17.37	RF	Roots, fine	00:05:31		2
	18.09	JD	Joint displaced, 20 mm displacement: DISPLACED INTO MANHOLE	00:05:52		1

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
11	10.0	5.6	102.0	2.0	5	10.0	0.8	14.0	5.0

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0000.jpg, 00:00:01, 0.00 m
 Start node type, manhole, reference number: MH1



20191010-090906-snap0001.jpg, 00:00:03, 0.00 m
 Water level, 0 % of the vertical dimension

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0002.jpg, 00:00:26, 1.48 m
 Crack, circumferential, from 03 to 10 o'clock



20191010-090906-snap0003.jpg, 00:00:47, 2.70 m
 Crack, circumferential, from 06 to 12 o'clock

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0004.jpg, 00:01:19, 3.46 m
 Crack, circumferential, from 12 to 06 o'clock



20191010-090906-snap0005.jpg, 00:01:42, 4.60 m
 Crack, circumferential, from 12 to 12 o'clock

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0006.jpg, 00:02:01, 5.43 m
 Crack, circumferential, from 12 to 12 o'clock



20191010-090906-snap0007.jpg, 00:02:24, 6.12 m
 Crack, circumferential, from 12 to 12 o'clock

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0008.jpg, 00:02:44, 7.37 m
 Crack, circumferential, from 12 to 12 o'clock



20191010-090906-snap0009.jpg, 00:03:05, 8.63 m
 Crack, circumferential, from 12 to 12 o'clock

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0010.jpg, 00:03:32, 10.64 m
 Crack, circumferential, from 12 to 12 o'clock



20191010-090906-snap0011.jpg, 00:03:56, 11.82 m
 Crack, circumferential, from 12 to 12 o'clock

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0012.jpg, 00:04:12, 12.43 m
 Roots, fine



20191010-090906-snap0013.jpg, 00:04:23, 13.15 m
 Roots, fine

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0014.jpg, 00:04:35, 13.72 m
 Roots, fine



20191010-090906-snap0015.jpg, 00:05:03, 15.01 m
 Roots, mass, 40 % cross-sectional area loss

Section Pictures - 10/10/2019 - MH1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH1X	01	



20191010-090906-snap0016.jpg, 00:05:31, 17.37 m
 Roots, fine



20191010-090906-snap0017.jpg, 00:05:52, 18.09 m
 Joint displaced, 20 mm displacement

Section Inspection - 10/10/2019 - MH2X

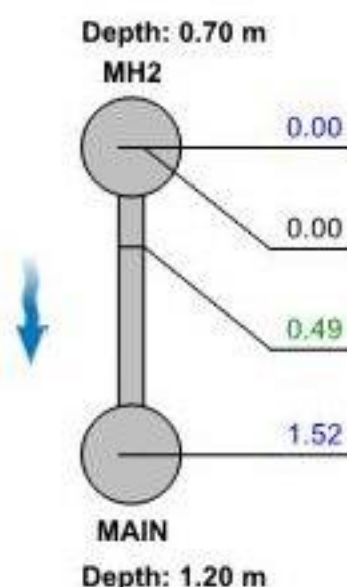
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	4	10/10/19	9:22	01	No Rain Or Snow	No	MH2X
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID		
JOE BAKER	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified		

Town or Village:	Waterlooville	Inspection Direction:	Downstream	Upstream Node:	MH2
Road:	50 Silvester Road	Inspected Length:	1.52 m	Upstream Pipe Depth:	0.700 m
Location:	Difficult access	Total Length:	1.52 m	Downstream Node:	MAIN
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.200 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

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



MH Start node type, manhole, reference number: MH2

00:00:08

WL Water level, 0 % of the vertical dimension

00:00:10

RF Roots, fine

00:00:33

2

BRF Finish node type, major connection without manhole, reference number: MAIN

00:01:10

Construction Features

Structural Defects

Miscellaneous Features

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	1	1.0	0.7	1.0	2.0

Section Pictures - 10/10/2019 - MH2X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	MH2X	01	



20191010-092247-snap0000.jpg, 00:00:08, 0.00 m
 Start node type, manhole, reference number: MH2



20191010-092247-snap0001.jpg, 00:00:10, 0.00 m
 Water level, 0 % of the vertical dimension

Section Pictures - 10/10/2019 - MH2X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	MH2X	01	



20191010-092247-snap0002.jpg, 00:00:33, 0.49 m
 Roots, fine



20191010-092247-snap0003.jpg, 00:01:10, 1.52 m
 Finish node type, major connection without manhole, reference number: MAIN