

## Table of contents

Project number:  
12392

Date:  
18/06/2018

Contact:

Profile Report	1
SRMReport :	2
<b>Inspection: 1</b>	
Project Information	4
Section: 1, MHO1 --- MHO2	5
Section: 2, MHO3 --- BRF	6
Section: 3, MHO2 --- MHO3	7
Section: 4, MHO5 --- MHO6	8
Section: 5, MH07 --- MHO5	9

Place :

**UNDERGROUND  
SURVEYS LTD**


Underground Surveys (UK) Limited  
Unit CG17 Warrington Business Park  
Long Lane  
Tel: 01925 444664  
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## ΣØ / Main sections

Project number :  
12392

Contact :

Date :  
18/06/2018

No.	US MR	DS MR	Date	Road	Tape No.	Material	m	(m)
1	MHO1	MHO2	18/06/2018	TOL END ROAD		Vitrified clay	60.00	7.19
2	MHO3	BRF	18/06/2018	TOL END ROAD		Vitrified clay	13.71	13.71
3	MHO2	MHO3	18/06/2018	TOL END ROAD		Vitrified clay	5.61	5.61
4	MHO5	MHO6	18/06/2018	TOL END ROAD		Vitrified clay	15.13	15.13
5	MHO7	MHO5	18/06/2018	TOL END ROAD		Vitrified clay	8.98	8.98

**Pipe size: CIRCULAR 150 = 103.43 m (50.62 m)**

**All sections = 103.43 m (50.62 m)**

**Service / Operational Defects (SRM 4)**

Project Number :  
12392

Contact :

Date :  
18/06/2018

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	MHO1X	D	S	C 150	18/06/2018	VC	60.00	7.19	-	0	1	0	0
2	MHO3X	D	S	C 150	18/06/2018	VC	13.71	13.71	3	2	3	0.22	3
3	MHO2X	U	S	C 150	18/06/2018	VC	5.61	5.61	3	5	4	0.89	5
4	MHO5X	D	F	C 150	18/06/2018	VC	15.13	15.13	-	1	2	0.07	1
5	MHO7X	U	F	C 150	18/06/2018	VC	8.98	8.98	3	2	3	1.04	9.3



## Structural Defects (SRM 4)

Project Number :  
12392

Contact :

Date :  
18/06/2018

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	MHO1X	D	S	C 150	18/06/2018	VC	60.00	7.19	-	0	1	0	0
2	MHO3X	D	S	C 150	18/06/2018	VC	13.71	13.71	4	80	4	12.47	171
3	MHO2X	U	S	C 150	18/06/2018	VC	5.61	5.61	-	0	1	0	0
4	MHO5X	D	F	C 150	18/06/2018	VC	15.13	15.13	-	0	1	0	0
5	MHO7X	U	F	C 150	18/06/2018	VC	8.98	8.98	-	0	1	0	0

**Project-information**Project Number :  
**12392**

Contact :

Date :  
**18/06/2018**

**Client:** **Aram Mohammed**  
**Contact Name:**  
**Department:**  
**Road:** **206 Toll End Road**  
**Town:** **Tipton DY4 0HF**  
**County:**  
**Telephone:**  
**Fax:**  
**Mobile:**  
**E-mail:**

**Site:** **Site Address**  
**Contact Name:**  
**Department:**  
**Road:** **206 Toll End Road**  
**Town:** **Tipton DY4 0HF**  
**County:**  
**Telephone:**  
**Fax:**  
**Mobile:**  
**E-mail:**

**Contractor** **Underground Surveys (UK) Limited**  
**Contact Name:** **Kelly Richardson**  
**Department:** **Director**  
**Road:** **Unit CG17 Warrington Business Park**  
**Town:** **Long Lane**  
**County:** **Warrington, WA2 8TX**  
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**E-mail:** **[kelly@undergroundsveys.co.uk](mailto:kelly@undergroundsveys.co.uk)**

## Inspection report

Date : <b>18/06/2018</b>	Job number : <b>CW147</b>	Section Type : <b>category A</b>	Operator : <b>CW</b>	Section number : <b>1</b>	PLR SUFFIX: <b>X</b>
Weather <b>no rain or snow</b>	Vehicle : <b>MJ6QVVP</b>	Camera : <b>MINI CAM</b>	Preset :	Cleaned : <b>no</b>	Type of Drain : <b>Gravity drain/sewer</b>

Place : <b>TIPTON</b>	Location details: Catchment: Pipe Shape : <b>Circular</b> Pipe Length <b>1.00 m</b>	U/S MH : <b>MHO1</b> U/S Depth : D/S MH : <b>MHO2</b> D/S Depth :
Road : <b>TOL END ROAD</b>		
Location <b>Property with buildings</b>		
Inspection <b>MHO1 (D/S) MHO2</b>		
Use: <b>Surface water</b>	Pipe Width : Pipe Diameter : <b>150 mm</b> Pipe material : <b>Vitrified clay</b> Lining :	
Year laid : <b>z</b>		
Purpose : <b>Other (state in remarks)</b>		
Total length : <b>60.00 m</b>		
Comment : <b>BUILD OVER PRE SURVEY</b>		

1:60 Position Code Observation Grade

<b>MHO1</b>				
0.00	OC	Start node type, other special chamber, reference number : MHO1 Remarks: TRAP	(Constr) 0	
0.00	WL	Water level, 0% of the vertical dimension	(Serv) 0	
0.00	REM	General remark Remarks: PAN SURVEY	(Misc) 0	
0.70	CUD	Loss of vision, silt Remarks: SILT	(Misc) 0	
6.00	JN	Junction, at 6 o'clock, diameter 100mm	(Constr) 0	
7.19	REM	General remark Remarks: NEEDS CLEANING	(Misc) 0	
7.19	SA	Survey abandoned Remarks: CAMERA UNDER SILT	(Misc) 0	

### Structural Defects

### Service Defects

### Constructional Features

### Miscellaneous Features

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 : 18/06/2018	Job number : CW148	Section Type : category A	Operator : CW	Section number : 2	PLR SUFFIX: X
Weather no rain or snow	Vehicle : MJ6OVVP	Camera : MINI CAM	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	TIPTON TOL END ROAD Property with buildings MHO3 (D/S) BRF	Location details: Catchment: Pipe Shape : Pipe Length	Circular 1.00 m	U/S MH : U/S Depth : D/S MH : D/S Depth :	MHO3  BRF
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Use: Year laid : Purpose : Total length :	Surface water z Other (state in remarks) 13.71 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	  150 mm Vitrified clay
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Comment : BUILD OVER PRE SURVEY

1:120 Position Code Observation Grade

MHO3	0.00	MH	Start node type, manhole, reference number : MHO3	(Constr) 0
	0.00	WL	Water level, 05% of the vertical dimension	(Serv) 0
	0.70	CMJ	Cracks, multiple at joint, from 9 to 3 o'clock	(Struct) 3
	4.97	FCJ	Fracture, circumferential at joint, from 2 to 5 o'clock	(Struct) 3
	4.97	DEEJ	Attached deposits, encrustation at joint, from 7 to 11 o'clock, 05% cross-sectional area loss	(Serv) 2
	5.12	H	Hole in drain/sewer, from 12 to 1 o'clock	(Struct) 4
	6.32	CCJ	Crack, circumferential at joint, from 11 to 2 o'clock	(Struct) 2
	6.84	JDM	Joint displaced, medium	(Struct) 1
	8.22	WL	Water level, 15% of the vertical dimension	(Serv) 0
	8.65	DES	Settled deposits, fine, 10% cross-sectional area loss	(Serv) 3
	12.84	LR	Line deviates right Remarks: SLIGHT	(Serv) 0
BRF	13.71	BRF	Finish node type, major connection without manhole reference number: BRF	(Constr) 0

### Structural Defects

### Service Defects

### Constructional Features

### Miscellaneous Features

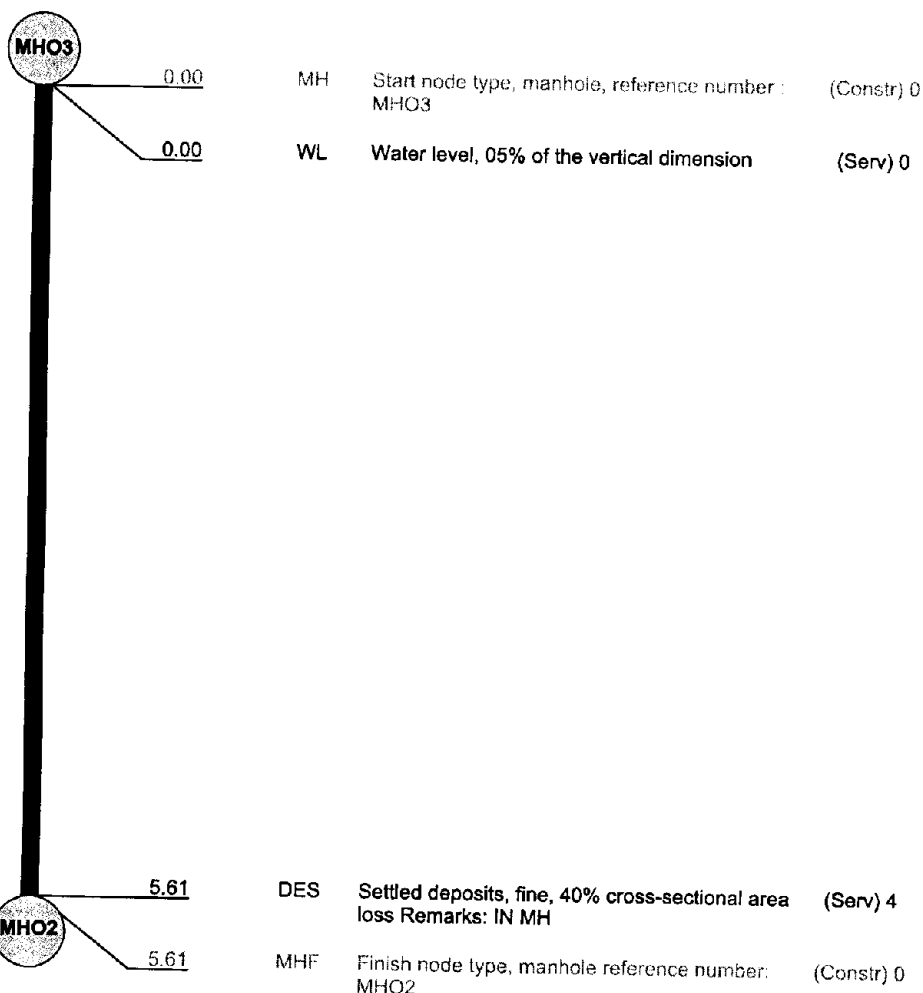
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
5	80	12.47	171	4	2	2	0.22	3	3

## Inspection report

Date : 18/06/2018	Job number : CW149	Section Type : category A	Operator : CW	Section number : 3	PLR SUFFIX: X
Weather no rain or snow	Vehicle : MJ6OVVP	Camera : MINI CAM	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place :	TIPTON	Location details:	U/S MH :	MHO2
Road :	TOL END ROAD	Catchment:	U/S Depth :	
Location	Property with buildings	Pipe Shape :	D/S MH :	MHO3
Inspection	MHO3 (U/S) MHO2	Pipe Length	D/S Depth :	
Use:	Surface water	Pipe Width :		
Year laid :	z	Pipe Diameter :	150 mm	
Purpose :	Other (state in remarks)	Pipe material :	Vitrified clay	
Total length :	5.61 m	Lining :		
Comment :	BULDOVER PRE SURVEY			

1:50 Position Code Observation Grade



### Structural Defects

### Service Defects

### Constructional Features

### Miscellaneous Features

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	5	0.89	5	4

## Inspection report

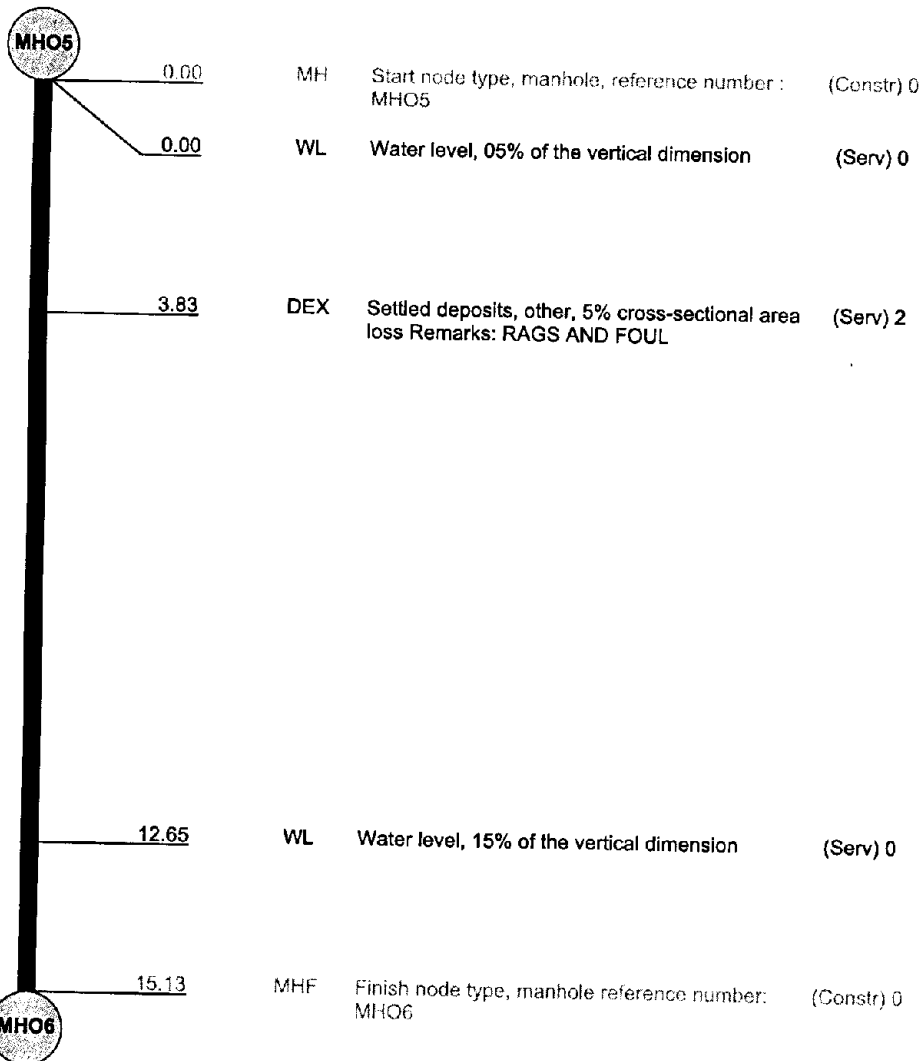
Date : 18/06/2018	Job number : CW150	Section Type : category A	Operator : CW	Section number : 4	PLR SUFFIX: X
Weather no rain or snow	Vehicle : MJ6OVVP	Camera : MINI CAM	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	TIPTON TOL END ROAD Property with buildings MHO5 (D/S) MHO6	Location details: Catchment: Pipe Shape : Pipe Length	Circular 1.00 m	U/S MH : U/S Depth : D/S MH : D/S Depth :	MHO5  MHO6
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Use: Year laid : Purpose : Total length :	Foul z Other (state in remarks) 15.13 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	  150 mm Vitrified clay
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Comment :	BUILD OVER PRE SURVEY
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1:120 Position Code Observation Grade



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	0.07	1	2

## Inspection report

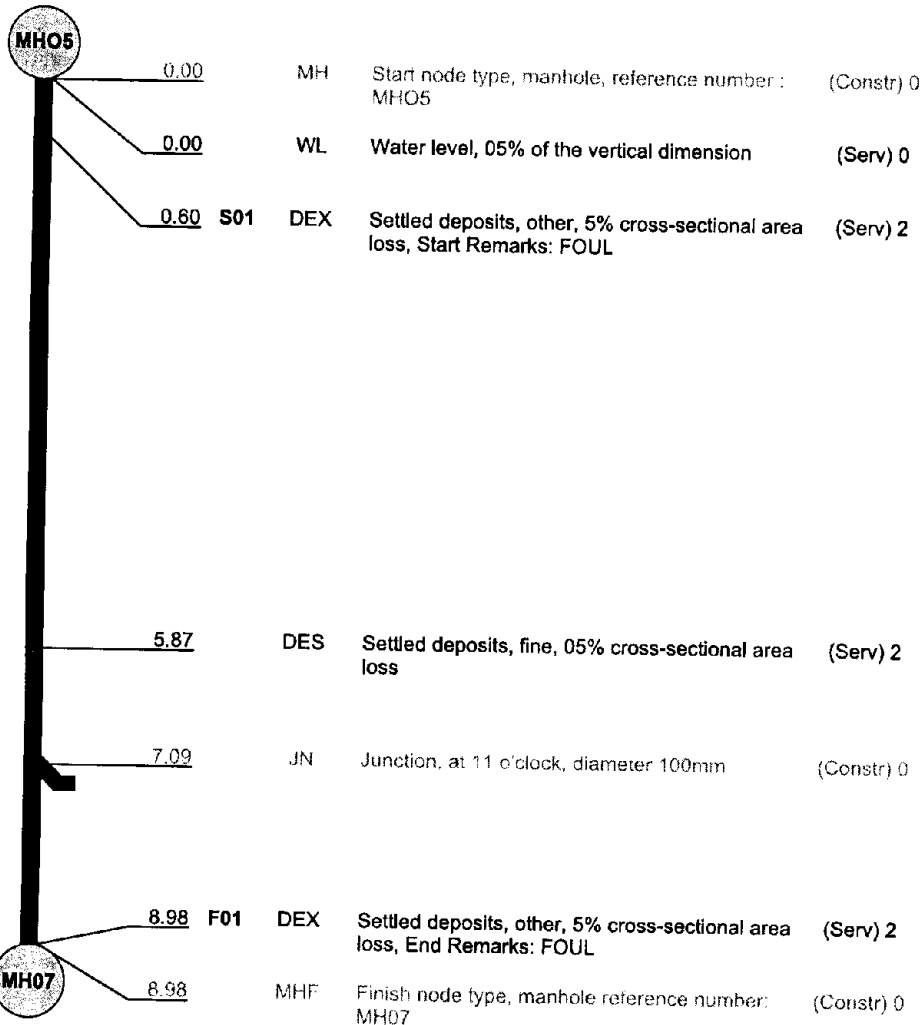
Date : 18/08/2018	Job number : CW151	Section Type : category A	Operator : CW	Section number : 5	PLR SUFFIX: X
Weather no rain or snow	Vehicle : MJ80VVP	Camera : MINI CAM	Preset :	Cleaned : no	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	TIPTON TOL END ROAD Property with buildings MHO5 (U/S) MH07	Location details: Catchment: Pipe Shape : Pipe Length	Circular 1.00 m	U/S MH : U/S Depth : D/S MH : D/S Depth :	MH07  MHO5
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Use: Year laid : Purpose : Total length :	Foul z Other (state in remarks) 8.98 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	  150 mm Vitrified clay
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Comment :	BUILD OVER PRE SURVEY
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1:75 Position Code Observation Grade



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1.04	9.3	3