

Internal Assessment Report

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Client:	Water Authority	Reference	
Scheme:	Water Main Investigations	WPS2015	
Location:	Road One, Junction One	OS Reference	
Detail:	CCTV AND ACCOUSTIC INSPECTION	N/K	N/K
Asset Ref:	WPS- Mar002	Assessment Date:	
WPS Team Leader	D Poyntz	26/03/2015	

Pipe Details:

OD (Nominal):	177mm	ID (Nominal):	155mm
External Coating:	None	Internal Lining:	None
Pressure:	4 Bar	Age:	1950
Material	Spun Iron	Class	Not Supplied

Ultrasonic Results:

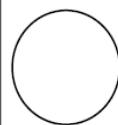

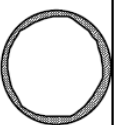
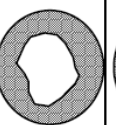
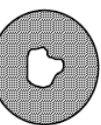
Min Wall Thickness:	Not Requested	Coupon Taken:	Yes
Ext Pit Depth (Max):	Not Requested	Ext Pit Depth (Mean):	Not Requested
Int Pit Depth (Max):	Not Requested	Int Pit Depth (Mean):	Not Requested

Remaining Life Calculation:

No Action Taken		Internal Corrosion Arrested	
Remaining Life (Min):	Not Requested	Remaining Life (Min):	Not Requested
Remaining Life (Mean):	Not Requested	Remaining Life (Mean):	Not Requested

Condition Grading:

Hydraulic Grade:	2-3
Asset Condition:	Good
Risk of Fracture:	Not Requested

Grade 1	Grade 2 Slight	Grade 3 0-20%	Grade 4 20-40%	Grade 5 >40%
				

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Site Photos



Site Photos



Comments on Site

- Location in field of Road One
- Excavation safely barriered off
- Main drilled and tapped
- 100m Investigator system used due to low flow in pipeline
- System fully chlorinated prior to entry
- Blank plate fitted after inspection

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Survey Comments:

Inspection details:

On tapping the main Waterworx placed their insertion flow meter into the main and recorded a flow of below 0.4m/s which is the minimum needed to carry the system down the pipe. Instead the 100m Investigator system was used to capture data from the main as it does not require flow. On this inspection the main was found to be in good condition with heavy to moderate sediment levels and also some large tuberculation growths.

Main was found to be unlined

Main was surveyed in both directions.

No Leaks were detected over the distance surveyed.

Direction One: With The Flow

Survey recorded on retrieval

- 27.2 Metres Achieved To Inlet of Reservoir
- 27.2m 03.56mins Inlet To Reservoir, Acoustic Noise Of Pumps Can Be Heard
- Very Heavy Sediment in First Seven Metres From Reservoir
- 20.7m 03.56mins Main Shot
- 20.4m 04.40mins Large Pipe Joint
- 20.4m 05.20mins Lateral Identified
- 19.5m 07.29mins Sluice Valve Identified
- 19.3m 08.10mins Main Shot With Tuberculation Growths On Pipe Wall
- 18.3m 08.36mins Main Shot (Clean Section Of Pipe)
- 17.8m 09.11mins Pipe Joint With Tuberculation
- 17.2m 09.38mins Main Shot With Tuberculation Growths On Pipe Wall
- 16.5m 10.04mins Main Shot With Tuberculation Growths On Pipe Wall
- 15.9m 10.52mins Main Shot With Tuberculation Growths On Pipe Wall
- 15.5m 11.28mins Main Shot With Tuberculation Growths On Pipe Wall
- 14.5m 11.55mins Main Shot With Tuberculation Growths On Pipe Wall
- 13.2m 12.16mins Main Shot With Tuberculation Growths On Pipe Wall
- 12.9m 12.40mins Pipe Joint With Minor Tubercualtion
- 12.4m 13.03mins Clean Section Of Pipe
- 12.2m 13.39mins Lateral Identified
- 11.4m 14.10mins Main Shot
- 10.8m 14.30mins Main Shot

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- 9.2m 14.56mins Main Shot
- 7.4m 15.36mins Main Shot
- 6.6m 15.55mins Pipe Joint With Heavy Tuberculation
- 5.6m 16.22mins Main Shot
- 4.7m 16.52mins Main Shot
- 2.2m 17.29mins Main Shot (Clean Section Of Pipe)
- 1.3m 18.55mins Pipe Joint

Direction Two: Against The Flow

- 29.4m Achieved, Large Tuberculation On Pipe Joint Halted Survey As System Could Not Navigate Past It
- 29.4m 00.10mins Large Pipe Joint
- 25.0m 01.07mins Clean Section Of Pipe
- 22.9m 01.44mins Clean Section Of Pipe
- 20.2m 02.20mins Pipe Joint With Tuberculation
- 19.8m 02.42mins Main Shot With Minor Tuberculation On Pipe Wall
- 18.9m 03.05mins Main Shot With Minor Tuberculation On Pipe Wall
- 17.6m 03.29mins Main Shot With Minor Tuberculation On Pipe Wall
- 16.6m 03.51mins Main Shot With Minor Tuberculation On Pipe Wall
- 15.1m 04.13mins Wall Shot With heavy Tubercualtion
- 14.2m 04.56mins Main Shot
- 11.9m 05.56mins Main Shot
- 10.7m 06.20mins Main Shot
- 9.1m 07.05mins Main Shot With Minor Tuberculation On Pipe Wall
- 7.7m 07.39mins Main Shot With Minor Tuberculation On Pipe Wall
- 6.7m 07.59mins Main Shot With Minor Tuberculation On Pipe Wall
- 5.2m 08.21mins Main Shot With Minor Tuberculation On Pipe Wall
- 4.0m 08.42mins Main Shot With Minor Tuberculation On Pipe Wall
- 2.4m 09.12mins Main Shot With Minor Tuberculation On Pipe Wall
- 1.6m 09.29mins Main Shot With Minor Tuberculation On Pipe Wall
- 0.3m 09.50mins Main Shot With Minor Tuberculation On Pipe Wall

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IMAGES

DIRECTION ONE

- TITLE ONE. LARGE PIPE JOINT 20.4 METRES
- TITLE TWO. LATERAL IDENTIFIED 20.4 METRES
- TITLE THREE. LATERAL IDENTIFIED 20.1 METRES
- TITLE FOUR. VALVE IDENTIFIED 19.5 METRES
- TITLE FIVE. MAIN SHOT WITH TUBERCULATION GROWTHS ON PIPE WALL 19.3 METRES
- TITLE SIX. MAIN SHOT WITH TUBERCULATION GROWTHS ON PIPE WALL 17.2 METRES
- TITLE SEVEN. MAIN SHOT WITH TUBERCULATION GROWTHS ON PIPE WALL 14.5 METRES
- TITLE EIGHT. LATERAL IDENTIFIED 12.2 METRES

DIRECTION TWO

- TITLE NINE. PIPE JOINT WITH HEAVY TUBERCULATION 28.0 METRES
- TITLE TEN. MAIN SHOT 25.0 METRES
- TITLE ELEVEN. MAIN SHOT 19.1 METRES
- TITLE TWELVE. MAIN SHOT 18.9 METRES
- TITLE THIRTEEN. WALL SHOT WITH TUBERCULATION GROWTHS 16.6 METRES
- TITLE FOURTEEN. MAIN SHOT 14.2 METRES
- TITLE FIFTEEN. MAIN SHOT 13.4 METRES
- TITLE SIXTEEN. PIPE JOINT WITH HEAVY TUBERCULATION 4.0 METRES

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Direction One

Title 1



Title 2



Title 3



Title 4



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Direction Two

Title 5



Title 6



Title 7



Title 8



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Title 9



Title 10



Title 11



Title 12



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Title 13



Title 14



Title 15



Title 16



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