Orbital Underground Service Location Pty Ltd
69 Henderson Road, Sheldon, Queensland 4157
Tel. 1300 ORBITAL
jamieware@orbital.com.au

Project

Project name	
Project date	11/08/2022
Job End Date	11/08/2022

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Project name	Project number	Project date
		11/08/2022

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Project Information

Project name	Project number	Project date
		11/08/2022

Contractor

Company:	Orbital Underground Service Location Pty Ltd
Responsible person:	Jamie Ware
Division:	
Street:	69 Henderson Road
City:	Sheldon, Queensland 4157
Phone:	1300 ORBITAL
Fax:	
Mobile:	
E-Mail:	jamieware@orbital.com.au

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Section Inspection - 11/08/2022 - 1

Date of inspection	Time of inspection	Land Ownership	Pipe Asset ID	Nr.
11/08/2022	**13:59**		**1**	**1**
Project name	Contractor's Job Number	Coding Standard	Name of operator	Job ID
		WSA 05-2008 2.2	**Jamie Ware**	**4189**

Town		US MH	**MH1**	Unit Length	**0.00 m**
Address	,	Direction	**Upstream**	GIS length	**0.00 m**
Location Type	**Easement**	DS MH	**MH2**	Inspected Length	**12.93 m**
Operation	**Storm water drain**	Use	**Drain**	Year Laid	

Profile	**375mm**	Purpose of inspection	**Operational Condition Inspection**
Lining Material		Method of inspection	**Television Camera**
Lining Type		Precipitation	**No precipitation**
Dia/Height	**375 mm**	Cleaning	**The conduit was not cleaned prior to the inspection**
Material	**Concrete pipe**	Flow control	**No measures taken**

General comment

1:113 m+	Code	Observation Text	MPEG	Photo	Grade
0.00	STMH	Start node, maintenance hole, Nodename:, MH2	00:00:00	1_b851db90-8355-4dd8-869b-	
0.00	WLC	Water level, clear flow (the invert is visible), water level: 0%	00:00:22	1_46e48fd8-da88-43c9-87d2-1	
0.00	CCW	Circumferential wall crack, width: 2mm from 12 o'clock to 12 o'clock	00:00:24	1_bc7360f2-6c4f-4518-b05d-6f5	1
0.33	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: >30mm at 12 o'clock	00:02:02	1_640bf76d-9fac-40bf-b8b1-c92	2
0.33	SRVP	Steel reinforcement is visible and projecting into the conduit, at joint from 9 o'clock to 5 o'clock	00:02:05	1_6b540bfc-e687-4be2-911c-c	
2.79	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: >30mm at 12 o'clock	00:03:48	1_609d39c6-3de4-4952-b427-8	2
2.79	BM	Breaking, some pieces are missing, at joint, length of break: 100mm at 2 o'clock / Broken spigot	00:04:01	1_7b1e371c-4a57-4159-8b7e-	5
5.23	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: 21-30mm at 12 o'clock	00:06:00	1_e141f3d4-8ddd-4fb3-a2ac-7b	1
7.49	BM	Breaking, some pieces are missing, at joint, length of break: 100mm at 9 o'clock	00:07:49	1_1a7c3295-c7ce-4524-89e3-7	5
7.64	CLS	Longitudinal surface crack, at joint, width: 1mm at 9 o'clock	00:07:52	1_7cc0c38b-218b-4f9a-900d-23	1
10.23	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock	00:09:06	1_1f983942-07af-46bb-bb51-4a	1
12.93	FHMH	Finish node, maintenance hole, Nodename:, MH1	00:10:10	1_1d845ed1-0190-4290-b800-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Defects				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
8	60.0	10.3	133.6	5	0	0.0	0.0	0.0	1

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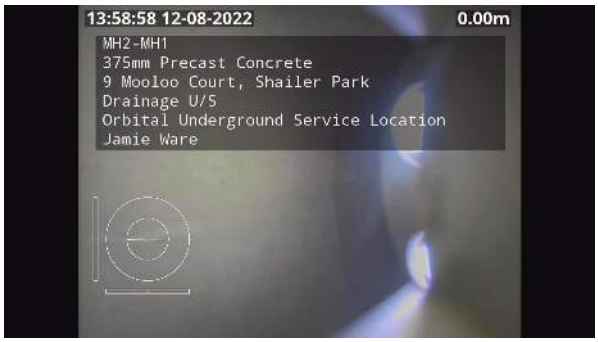
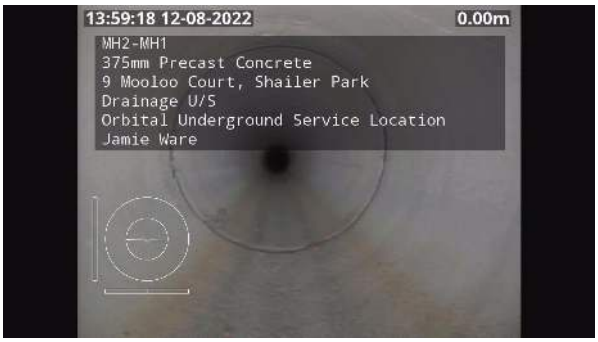
Section Pictures - 11/08/2022 - 1

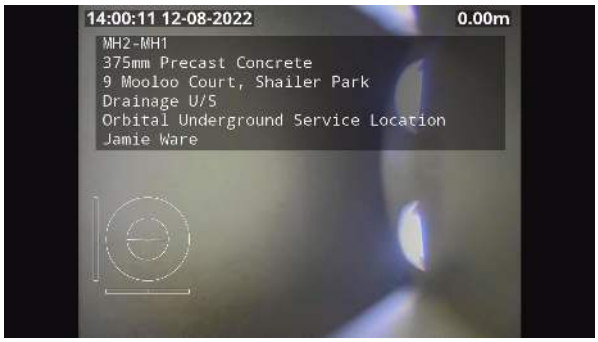
Town	Address/Location	Date of inspection	Pipe Asset ID	Job ID
	,	**11/08/2022**	**1**	**4189**



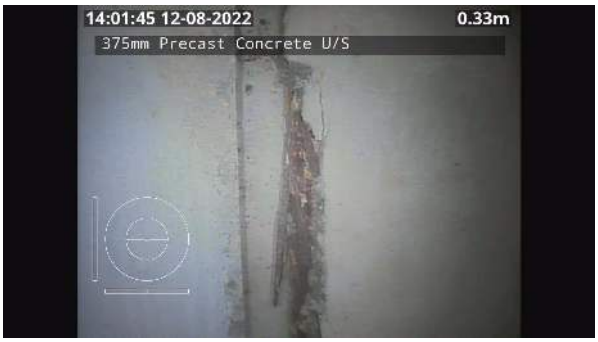
1_b851db90-8355-4dd8-869b-627495cf1608_20220811_135941_021.jpg, 00:00:00, 0.00
Start node, maintenance hole, Nodename:, MH2



1_46e48fd8-da88-43c9-87d2-15a080f03879_20220811_140009_964.jpg, 00:00:22, 0.00
Water level, clear flow (the invert is visible), water level: 0%



1_bc7360f2-6c4f-4518-b05d-6f5037d6a297_20220811_140054_291.jpg, 00:00:24, 0.00
Circumferential wall crack, width: 2mm from 12 o'clock to 12 o'clock



1_640bf76d-9fac-40bf-b8b1-c9247a7c5d5e_20220811_140313_540.jpg, 00:02:02, 0.33
Displaced joint, longitudinal displacement, longitudinal displacement: >30mm at 12 o'clock

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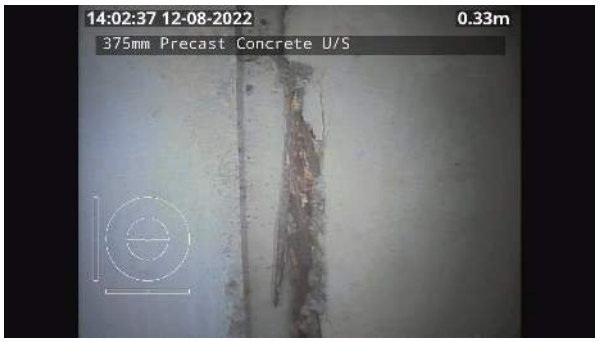
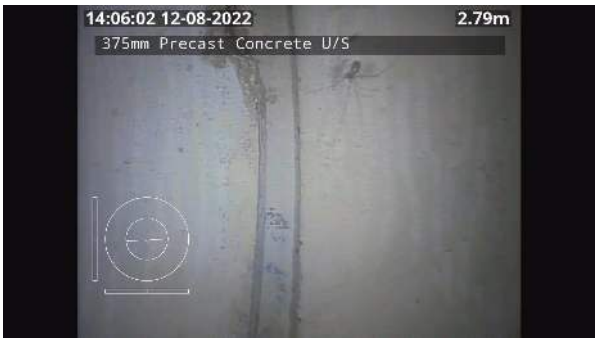
Section Pictures - 11/08/2022 - 1

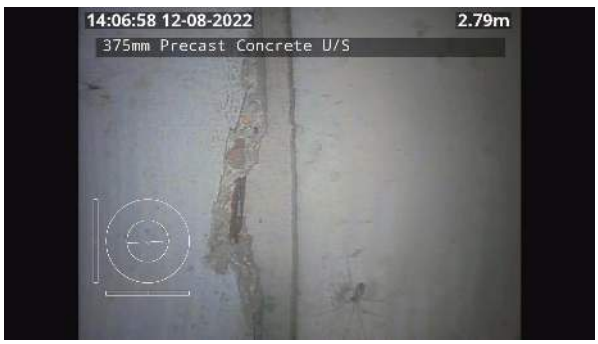
Town	Address/Location	Date of inspection	Pipe Asset ID	Job ID
	,	**11/08/2022**	**1**	**4189**



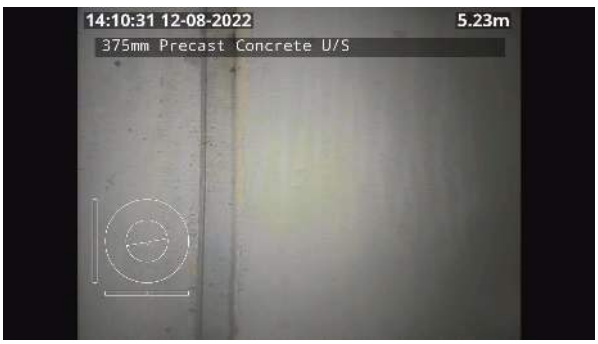
1_6b540bfc-e687-4be2-911c-c8dc1e484ca1_20220811_140459_056.jpg, 00:02:05, 0.33
Steel reinforcement is visible and projecting into the conduit, at joint from 9 o'clock to 5 o'clock



1_609d39c6-3de4-4952-b427-81ec529ef3f0_20220811_140725_863.jpg, 00:03:48, 2.79
Displaced joint, longitudinal displacement, longitudinal displacement: >30mm at 12 o'clock



1_7b1e371c-4a57-4159-8b7e-25aba316bc81_20220811_140911_870.jpg, 00:04:01, 2.79
Breaking, some pieces are missing, at joint, length of break: 100mm at 2 o'clock / Broken spigot



1_e141f3d4-8ddd-4fb3-a2ac-7b4198ba411e_20220811_141132_172.jpg, 00:06:00, 5.23
Displaced joint, longitudinal displacement, longitudinal displacement: 21-30mm at 12 o'clock

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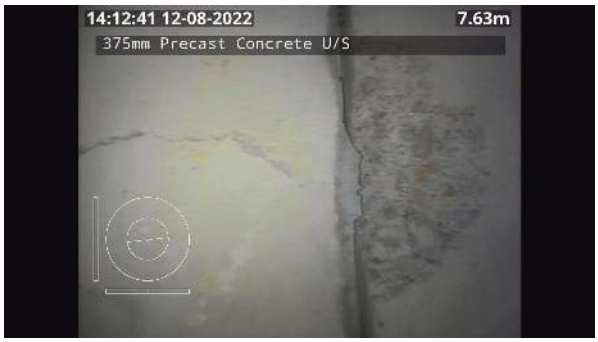
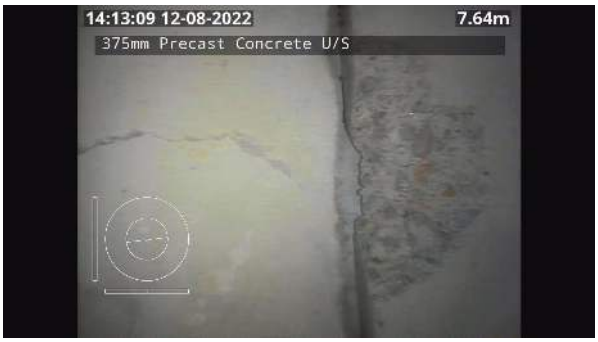
Section Pictures - 11/08/2022 - 1

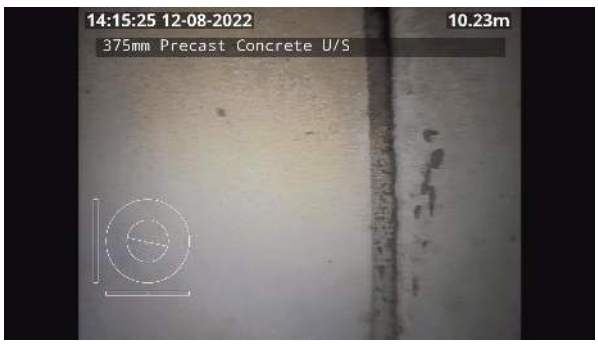
Town	Address/Location	Date of inspection	Pipe Asset ID	Job ID
	,	**11/08/2022**	**1**	**4189**



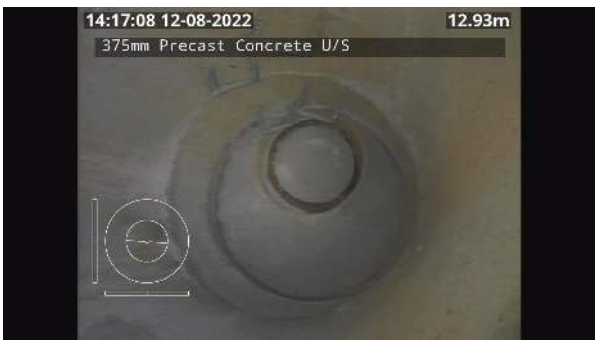
1_1a7c3295-c7ce-4524-89e3-7b3c108df658_20220811_141346_311.jpg, 00:07:49, 7.49
Breaking, some pieces are missing, at joint, length of break: 100mm at 9 o'clock



1_7cc0c38b-218b-4f9a-900d-23252f57c2ed_20220811_141420_824.jpg, 00:07:52, 7.64
Longitudinal surface crack, at joint, width: 1mm at 9 o'clock



1_1f983942-07af-46bb-bb51-4a4a8a776d95_20220811_141627_952.jpg, 00:09:06, 10.23
Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock



1_1d845ed1-0190-4290-b800-888ec4aacf67_20220811_141751_201.jpg, 00:10:10, 12.93
Finish node, maintenance hole, Nodename:, MH1

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Section Inspection - 11/08/2022 - 2

Date of inspection	Time of inspection	Land Ownership	Pipe Asset ID	Nr.
11/08/2022	**14:24**		**2**	**2**
Project name	Contractor's Job Number	Coding Standard	Name of operator	Job ID
		WSA 05-2008 2.2	**Jamie Ware**	**4189**

Town		US MH	**MH2**	Unit Length	**0.00 m**
Address	,	Direction	**Downstream**	GIS length	**0.00 m**
Location Type	**Easement**	DS MH	**MH3**	Inspected Length	**10.15 m**
Operation	**Storm water drain**	Use	**Drain**	Year Laid	

Profile	**375mm**	Purpose of inspection	**Operational Condition Inspection**
Lining Material		Method of inspection	**Television Camera**
Lining Type		Precipitation	**No precipitation**
Dia/Height	**375 mm**	Cleaning	**The conduit was not cleaned prior to the inspection**
Material	**Concrete pipe**	Flow control	**No measures taken**

General comment

1:89 m+	Code	Observation Text	MPEG	Photo	Grade
0.00	STMH	Start node, maintenance hole, Nodename:, MH2	00:00:00	2_a1ccb371-f6f2-41b6-9916-f09	
0.00	WLC	Water level, clear flow (the invert is visible), water level: 0%	00:00:18	2_522194c7-3e11-41cb-ae8a-9	
0.54	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock	00:01:58	2_ccad764b-72a3-4b07-8223-4	1
2.91	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock	00:02:52	2_a5729d3b-4510-4955-8516-	1
7.84	JDL	Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock	00:04:55	2_84634ada-02b3-4ee7-84fd-3	1
7.84	CCW	Circumferential wall crack, at joint, width: 1mm from 11 o'clock to 1 o'clock	00:05:01	2_86d8aeb3-9bf2-4faa-9b34-8	1
10.15	FHMH	Finish node, maintenance hole, Nodename:, MH3	00:05:54	2_8575c63a-614f-48f5-8620-7e	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Defects				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
4	1.0	0.2	2.5	1	0	0.0	0.0	0.0	1

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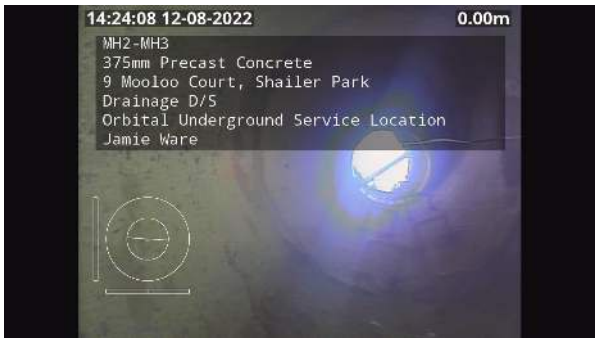
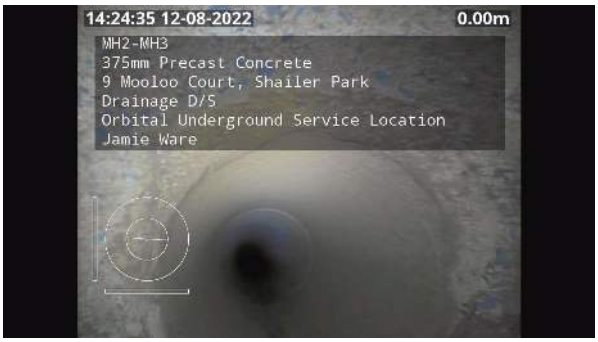
Section Pictures - 11/08/2022 - 2

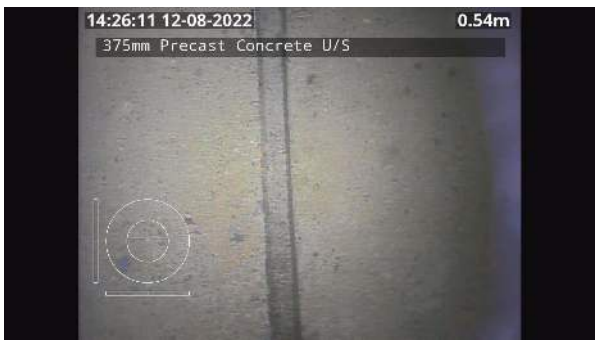
Town	Address/Location	Date of inspection	Pipe Asset ID	Job ID
	,	**11/08/2022**	**2**	**4189**



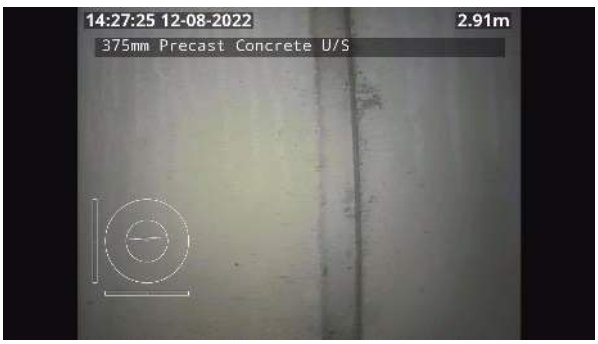
2_a1ccb371-f6f2-41b6-9916-f0905a8550a7_20220811_142450_746.jpg, 00:00:00, 0.00
Start node, maintenance hole, Nodename:, MH2



2_522194c7-3e11-41cb-ae8a-98216a695492_20220811_142517_563.jpg, 00:00:18, 0.00
Water level, clear flow (the invert is visible), water level: 0%



2_ccad764b-72a3-4b07-8223-4d4b797a7550_20220811_142712_039.jpg, 00:01:58, 0.54
Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock



2_a5729d3b-4510-4955-8516-465be0dd0164_20220811_142822_015.jpg, 00:02:52, 2.91
Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock

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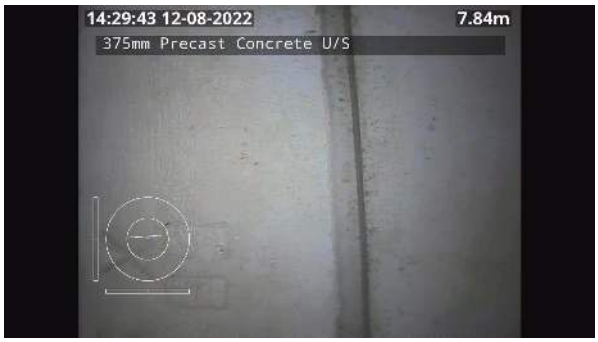
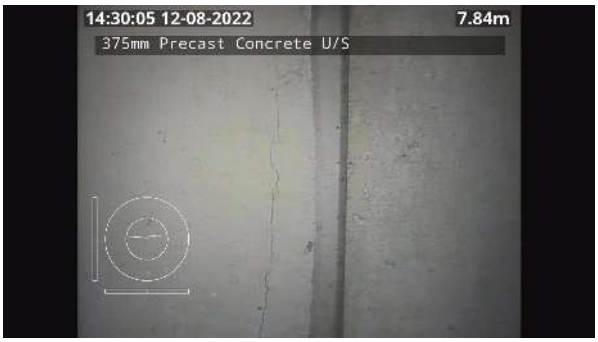
Section Pictures - 11/08/2022 - 2

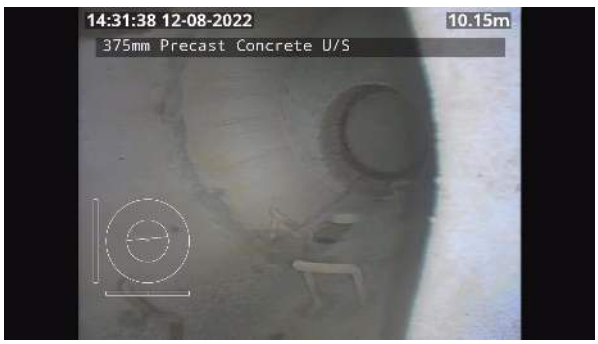
Town	Address/Location	Date of inspection	Pipe Asset ID	Job ID
	,	**11/08/2022**	**2**	**4189**



2_84634ada-02b3-4ee7-84fd-36fca8b637e2_20220811_143040_353.jpg, 00:04:55, 7.84
Displaced joint, longitudinal displacement, longitudinal displacement: 10-20mm at 12 o'clock



2_86d8aeb3-9bf2-4faa-9b34-8e133b939c95_20220811_143110_651.jpg, 00:05:01, 7.84
Circumferential wall crack, at joint, width: 1mm from 11 o'clock to 1 o'clock



2_8575c63a-614f-48f5-8620-7e83d79b1442_20220811_143220_680.jpg, 00:05:54, 10.15
Finish node, maintenance hole, Nodename:, MH3

WinCan

Notes:

Thank you for choosing to use WinCan to carry out your drainage investigation works.

The results and views carried in this report are those of the engineer(s) appointed to carry out the investigation and are considered relevant on the day of the survey. Drain and sewer performance is known to alter over time, so liability cannot be accepted for differences between the recorded data and the actual data at a time after this report was generated.

This survey has been created in accordance with the drainage standard used in the country and language settings for this PC.

If a DVD has been supplied with this report, please not that it can only be used in a Windows based PC. Please browse the DVD and navigate to the PDF folder to find project-based documents such as drawings, engineer's site notes and survey specifications amongst others.

CCTV subsidence investigations do not account for the water tightness of the pipes and are merely a visual inspection of inside of the drains. CCTV drainage engineers are generally not qualified to comment on the causes of subsidence, and can only suggest required remedial actions for the pipes, and not the affected buildings.

Subsidence is a building structural failure, which can occur for many reasons. Although drainage failures can contribute to subsidence problems, other causes should always be investigated as part of a considered approach. In order to eliminate drains from suspicion, WinCan suggests that all pipes within at least 10m of the subsidence area be pressure tested over and above a CCTV inspection, and remedial suggestions considered based on the findings.

Unless otherwise specified in an associated task order (or similar), the data gathered in this report may not be suitable for use as a pre-lining investigation. WinCan are happy to carry out such surveys, but this must be agreed prior to the commencement of the works, and a the client must specify the data they wish to capture and the acceptable tolerances.

Where GPS coordinates and heights have been issued within this report, they are to 1m accuracy, and 2m accuracy for heights. Greater accuracy can be provided on request.