

RedZone
ROBOTICS

Street:	Henry Street		Flow Control:	Not Controlled	
City:	City of Hobart		Year Renewed:		
Location:	Local rural streets with light traffic, t		Tape/Media #:		
Purpose:	Routine Assessment		Dia/Height:	12"	
Use:	Sanitary Sewage Pipe		Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details:			Direction of Survey:	Downstream	
US MH:	M-605-021	DS MH:	M-605-023	Total Length Surveyed (ft):	175.7

O&M Index:	2.07	O&M Quick:	3A2D	O&M Rating:	87.00
Structural Index:	2.44	Structural Quick:	4532	Structural Rating:	44.00
Overall Index:	2.18	Overall Quick:	453A	Overall Rating:	131.00

Tuesday, April 25, 2023

98.0	RMJ	Roots Medium Joint	869	M 3
98.4	CC	Crack Circumferential	963	S 1
98.8	CL	Crack Longitudinal	968	S 2
99.6	RMJ	Roots Medium Joint	991	M 3
101.9	CL	Crack Longitudinal	1030	S 2
101.9	RMJ	Roots Medium Joint	1037	M 3
101.9	RFJ	Roots Fine Joint	1054	M 1
103.4	DSF(F01)	Deposits Settled Fine	1081	M 2
105.8	SZ(S04)	Surface Damage Other	1105	NA
112.5	SZ(F04)	Surface Damage Other	1200	NA
117.1	TFD	Tap Factory Defective	1175	M 3
117.4	SSS	Surface Damage Surface Spalling	1200	S 2
117.8	TBD	Tap Break-in/Hammer Defective	1242	M 3
140.9	MWLS	Miscellaneous Water Level Sag	1350	S 2
145.6	FM	Fracture Multiple	1386	S 4
147.3	DAE	Deposits Attached Encrustation	1405	M 2
147.3	DAE	Deposits Attached Encrustation	1434	M 2
147.4	RFJ	Roots Fine Joint	1446	M 1
153.5	CM	Crack Multiple	1513	S 3
153.5	RFJ	Roots Fine Joint	1529	M 1
156.5	TF	Tap Factory	1565	NA
157.5	RMJ(S03)	Roots Medium Joint	1622	M 3
168.0	RFJ	Roots Fine Joint	1705	M 1
173.9	RFJ	Roots Fine Joint	1800	M 1
175.2	RMJ(F03)	Roots Medium Joint	1835	M 3
175.7	AMH	Manhole	1917	NA

M-605-023



Code: **AMH**
Description: **Manhole**

Distance (ft): **.0**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks: **M-605-021**



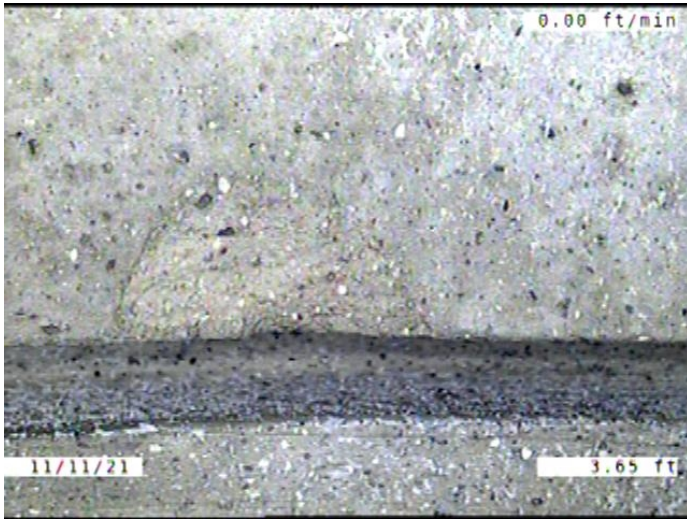
Code: **MWL**
Description: **Miscellaneous Water Level**

Distance (ft): **.0**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



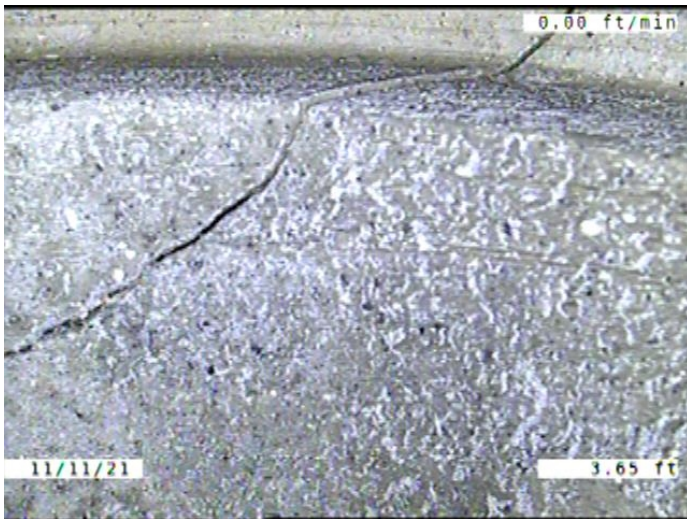
Code: **DSF**
Description: **Deposits Settled Fine**

Distance (ft): **.0**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **5**
Clock To: **7**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **S01**
Within 8" of Joint: **YES**
Remarks:



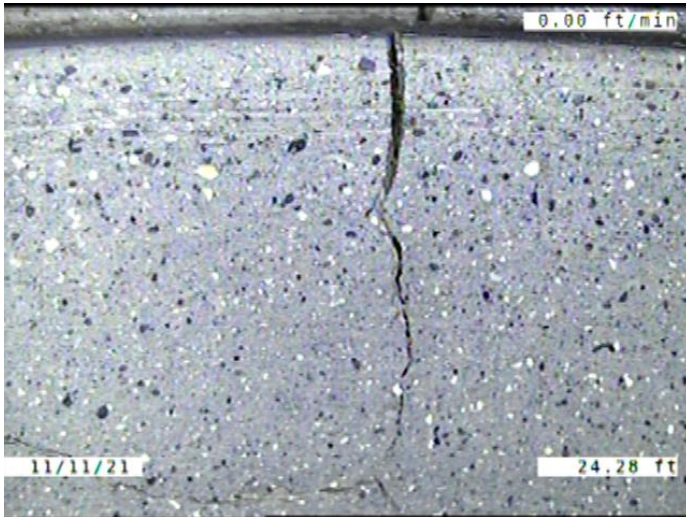
Code: **SSS**
 Description: **Surface Damage Surface Spalling**

Distance (ft): **3.6**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **10**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



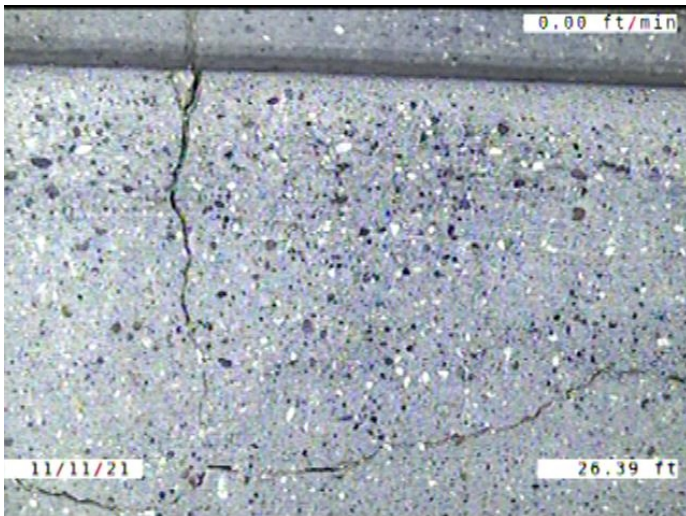
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **3.7**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



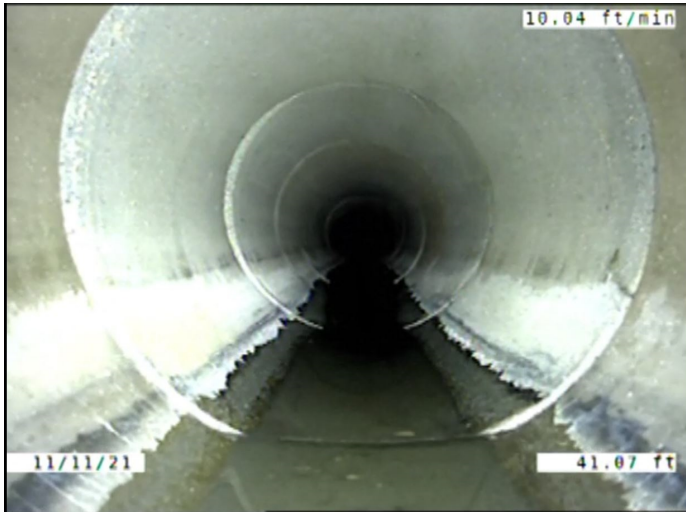
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **24.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **10**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **26.4**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



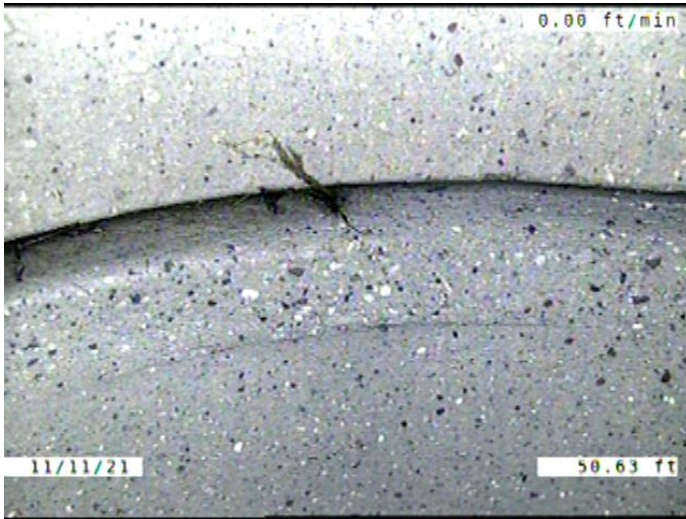
Code: **CL**
Description: **Crack Longitudinal**

Distance (ft): **41.1**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **4**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



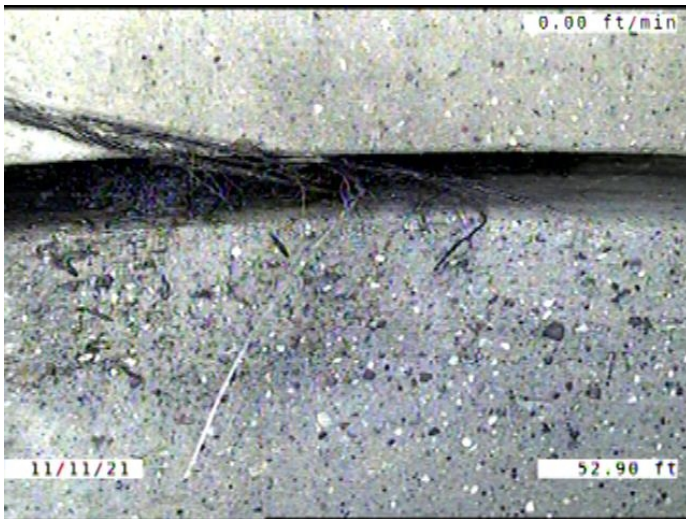
Code: **CC**
Description: **Crack Circumferential**

Distance (ft): **42.8**
Structural Grade: **1**
O&M Grade: **0**
Clock Start/From: **1**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



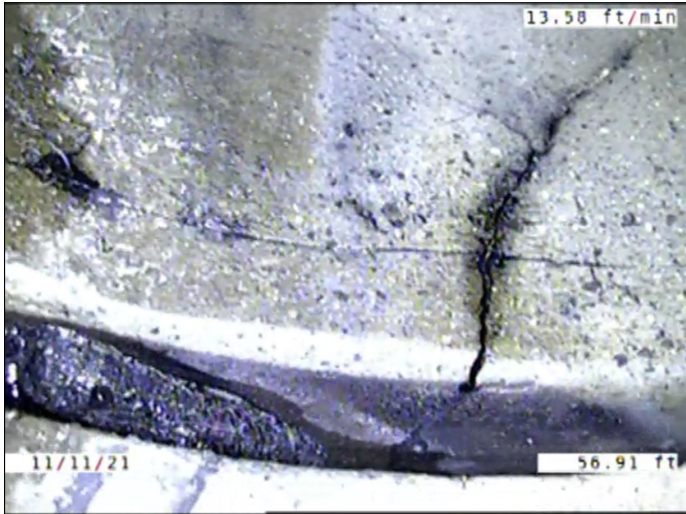
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **50.6**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **52.9**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **8**
 Clock To: **9**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



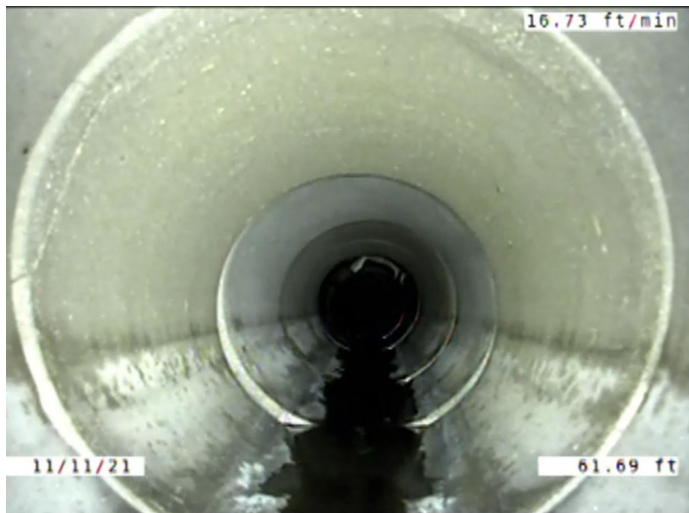
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **56.9**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **4**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **CL**
Description: **Crack Longitudinal**

Distance (ft): **59.8**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **3**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



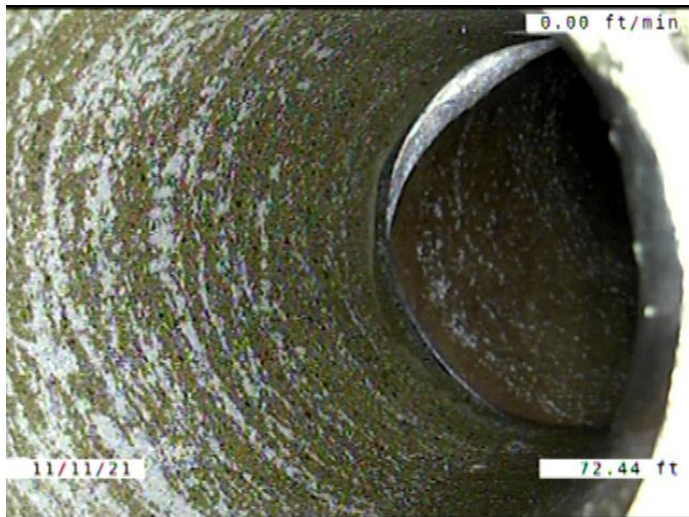
Code: **CC**
Description: **Crack Circumferential**

Distance (ft): **61.7**
Structural Grade: **1**
O&M Grade: **0**
Clock Start/From: **9**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **70.9**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **2**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



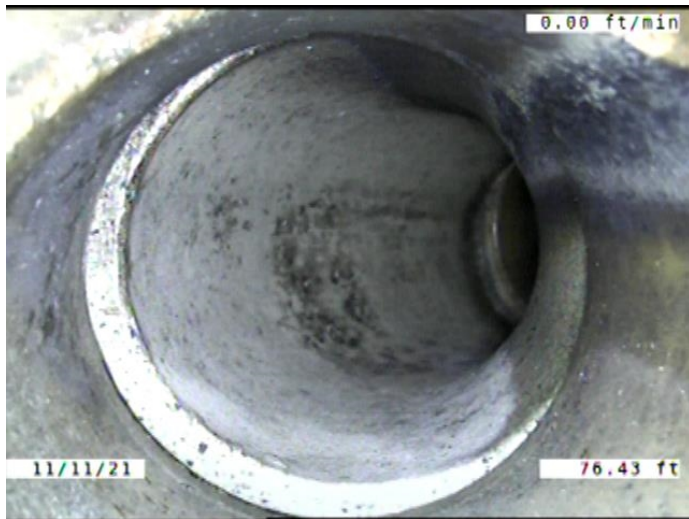
Code: **TBI**
 Description: **Tap Break-in Intruding**

Distance (ft): **72.4**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value: **2.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



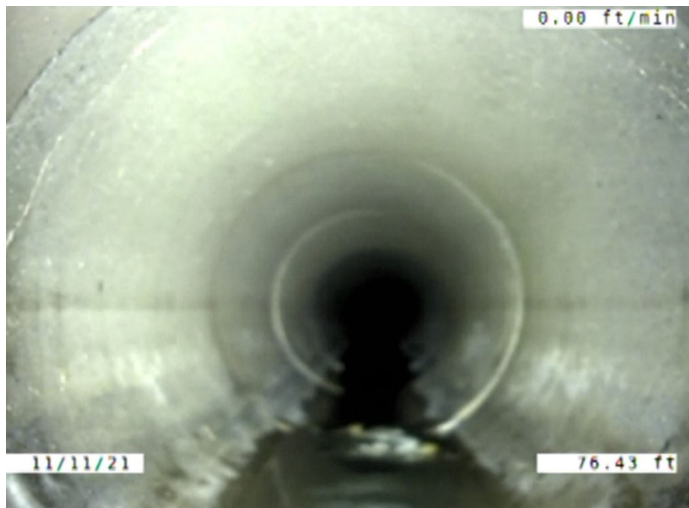
Code: **RTJ**
 Description: **Roots Tap Joint**

Distance (ft): **73.5**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **10**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



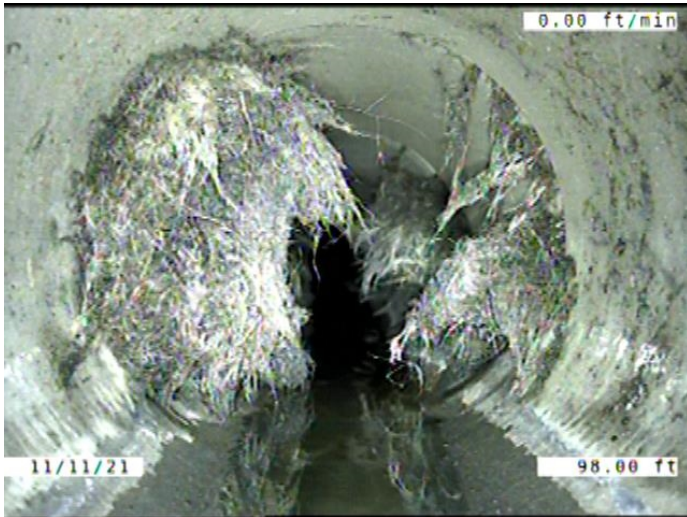
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **76.4**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Cracked**



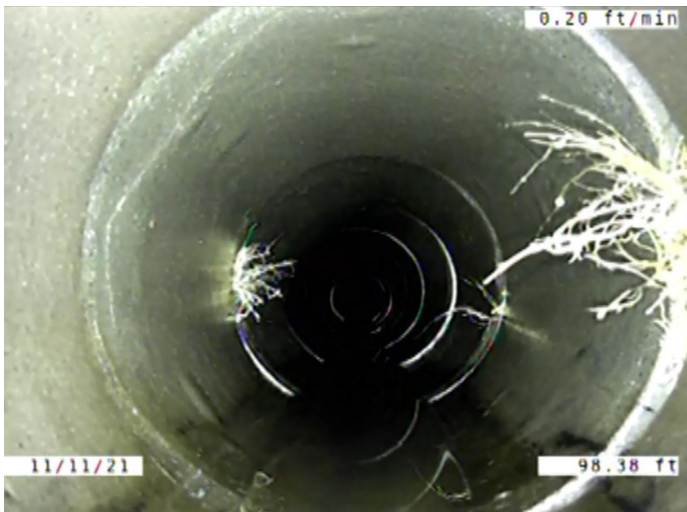
Code: **CC**
 Description: **Crack Circumferential**

Distance (ft): **76.4**
 Structural Grade: **1**
 O&M Grade: **0**
 Clock Start/From: **10**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



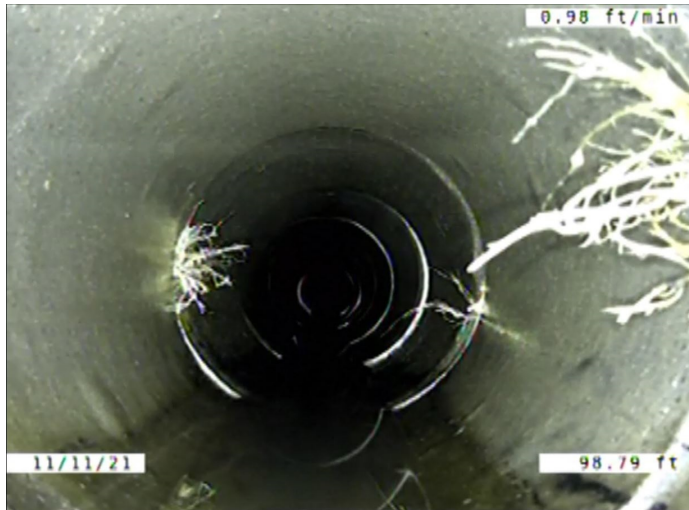
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **98.0**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **7**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **50.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **CC**
 Description: **Crack Circumferential**

Distance (ft): **98.4**
 Structural Grade: **1**
 O&M Grade: **0**
 Clock Start/From: **9**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **CL**
 Description: **Crack Longitudinal**

Distance (ft): **98.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **4**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **99.6**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



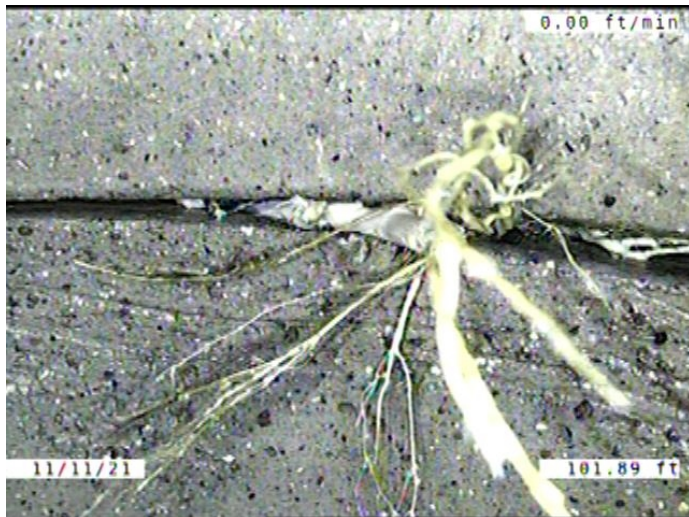
Code: **CL**
 Description: **Crack Longitudinal**

Distance (ft): **101.9**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



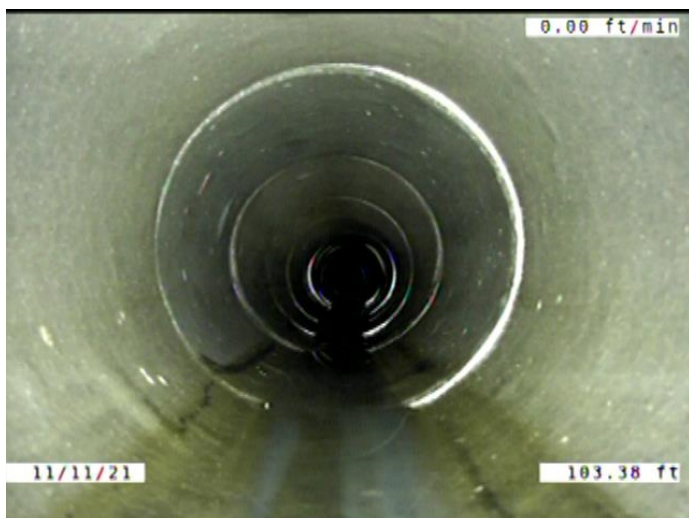
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **101.9**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **9**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



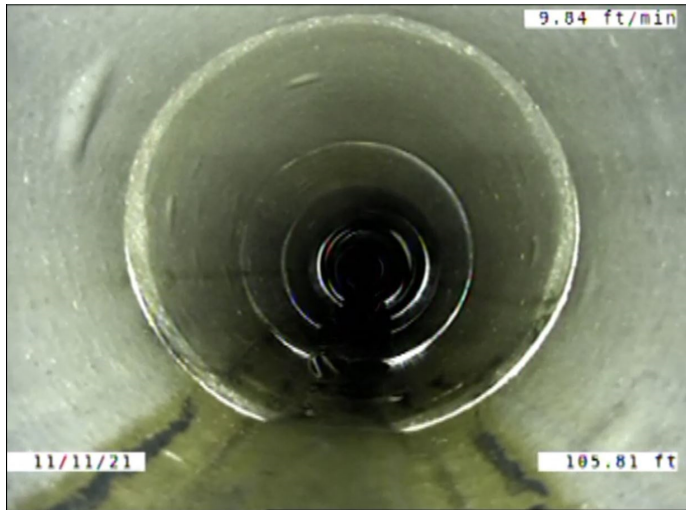
Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **101.9**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **2**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



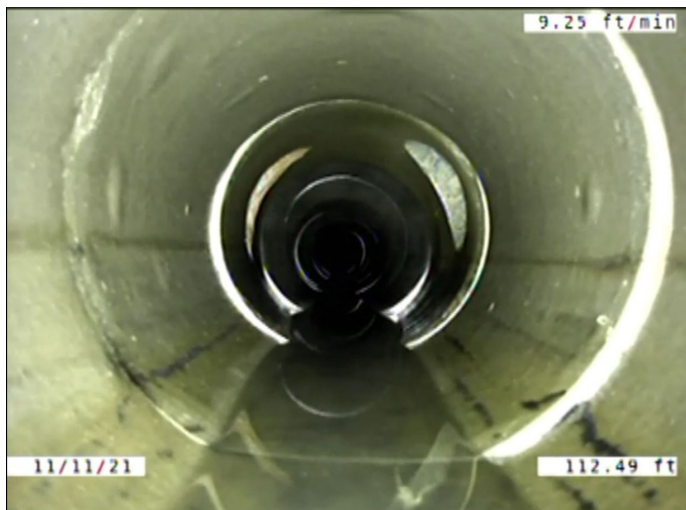
Code: **DSF**
Description: **Deposits Settled Fine**

Distance (ft): **103.4**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **5**
Clock To: **7**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F01**
Within 8" of Joint: **YES**
Remarks:



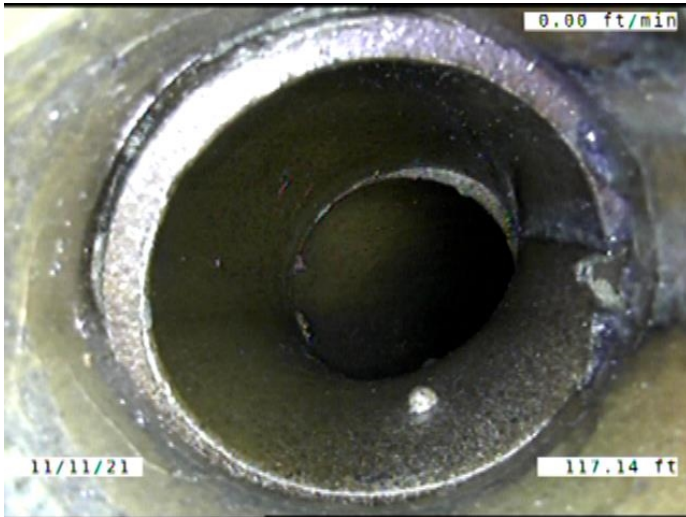
Code: **SZ**
Description: **Surface Damage Other**

Distance (ft): **105.8**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **9**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S04**
Within 8" of Joint: **NO**
Remarks: **Indentations. Factory defect.**



Code: **SZ**
Description: **Surface Damage Other**

Distance (ft): **112.5**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **9**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F04**
Within 8" of Joint: **NO**
Remarks: **Indentations. Factory defect.**



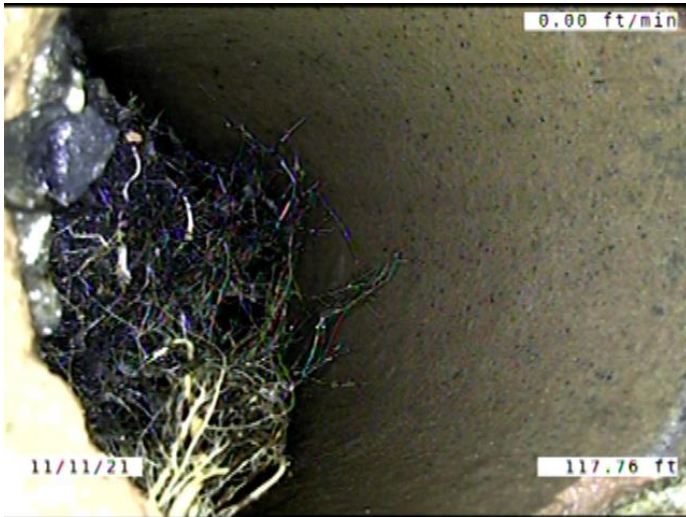
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **117.1**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **2**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **BROKEN. OFFSET.**

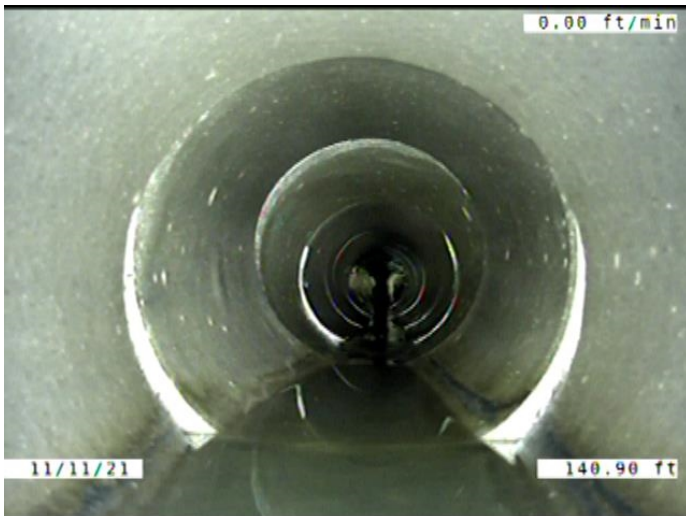


Code: **SSS**
 Description: **Surface Damage Surface Spalling**

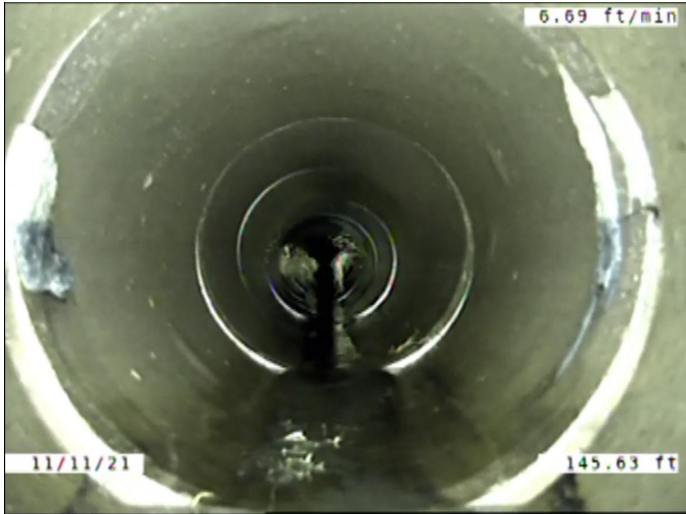
Distance (ft): **117.4**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **9**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



Code:	TBD
Description:	Tap Break-in/Hammer Defective
Distance (ft):	117.8
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	10
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	ROOTS GROWING FROM THE CONNECTION

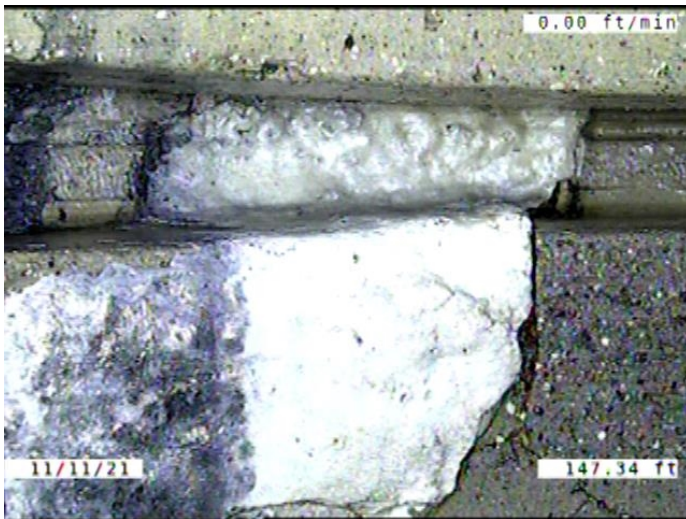


Code:	MWLS
Description:	Miscellaneous Water Level Sag
Distance (ft):	140.9
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



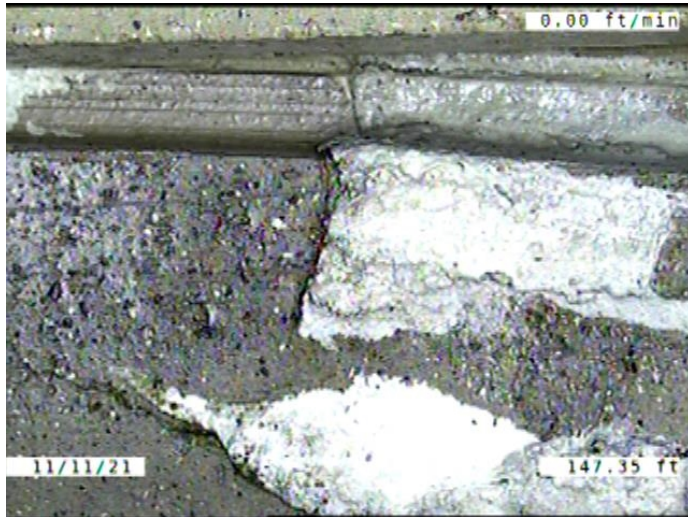
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **145.6**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



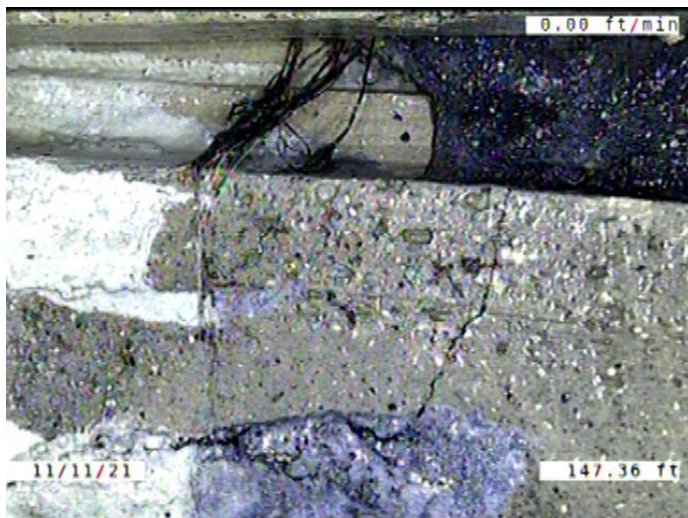
Code: **DAE**
Description: **Deposits Attached Encrustation**

Distance (ft): **147.3**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **9**
Clock To: **10**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



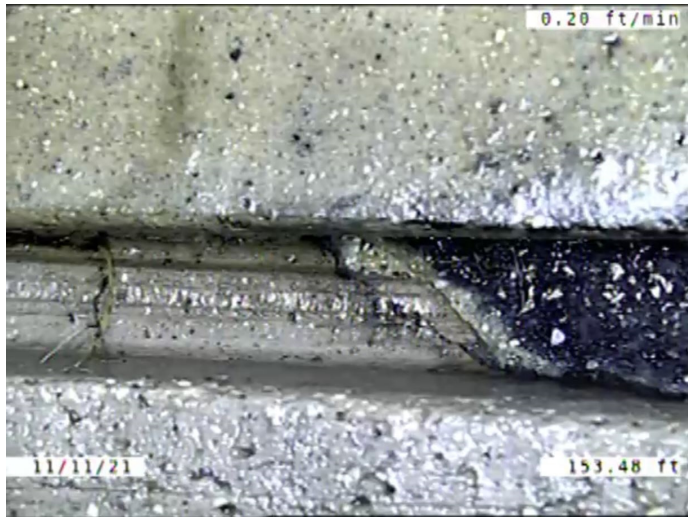
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **147.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **1**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **147.4**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **3**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



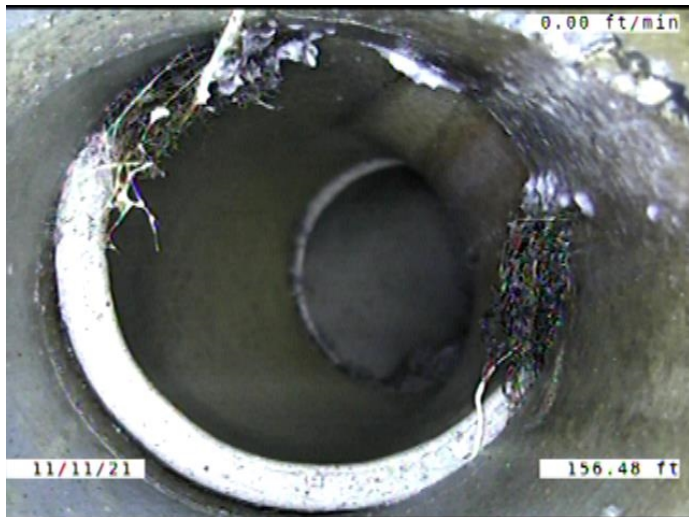
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **153.5**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **7**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RFJ**
 Description: **Roots Fine Joint**

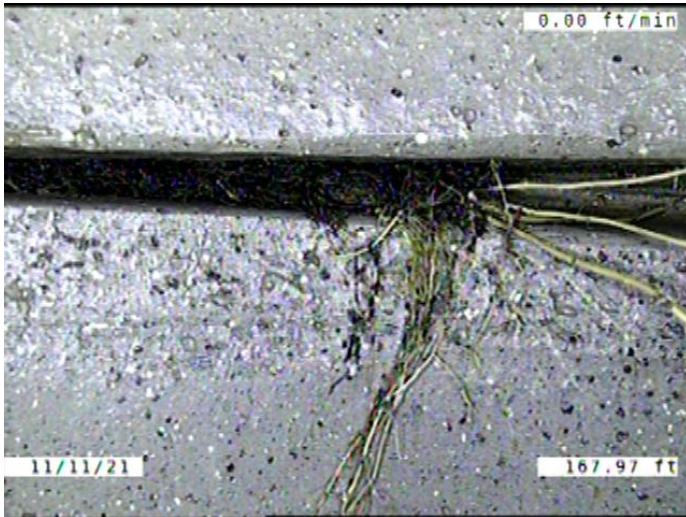
Distance (ft): **153.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code:	TF
Description:	Tap Factory
Distance (ft):	156.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	ROOTS GROWING THROUGH THE JOINTS



Code:	RMJ
Description:	Roots Medium Joint
Distance (ft):	157.5
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S03
Within 8" of Joint:	YES
Remarks:	



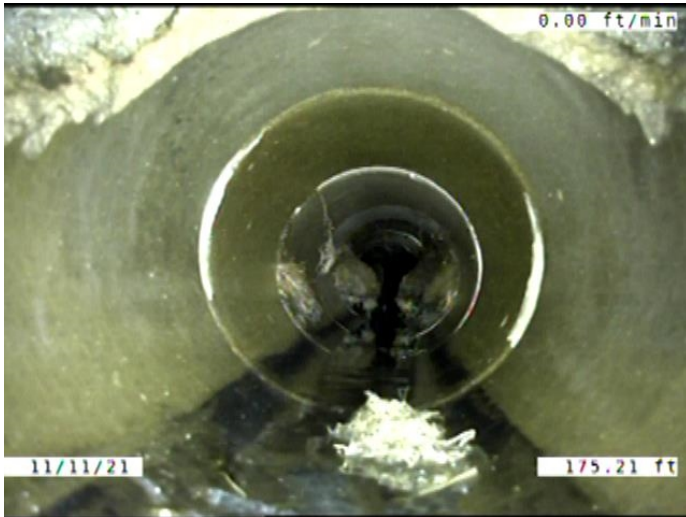
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **168.0**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



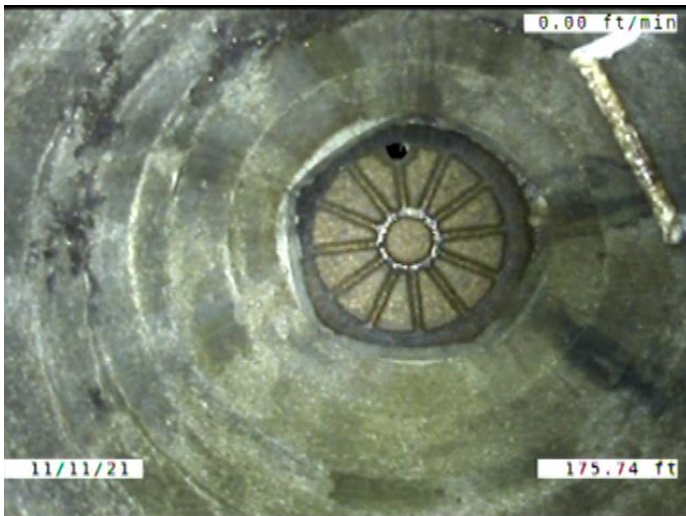
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **173.9**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **2**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **175.2**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **F03**
 Within 8" of Joint: **YES**
 Remarks:



Code: **AMH**
 Description: **Manhole**

Distance (ft): **175.7**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **M-605-023**