

Profile/Photo Observation Report

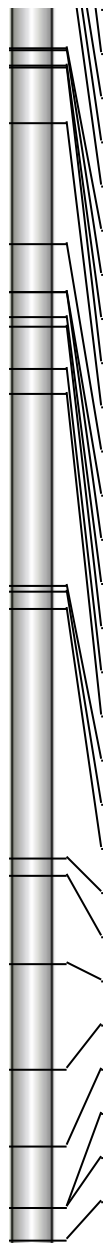


Date:	11/17/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	223.5	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-604-074-073
Customer:	City of Hobart	Clean Date:	11/17/2021	Shape:	C

Street:	North Washington Street	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Easement/Right of Way	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-604-074	DS MH:	M-604-073
		Total Length Surveyed (ft):	223.5

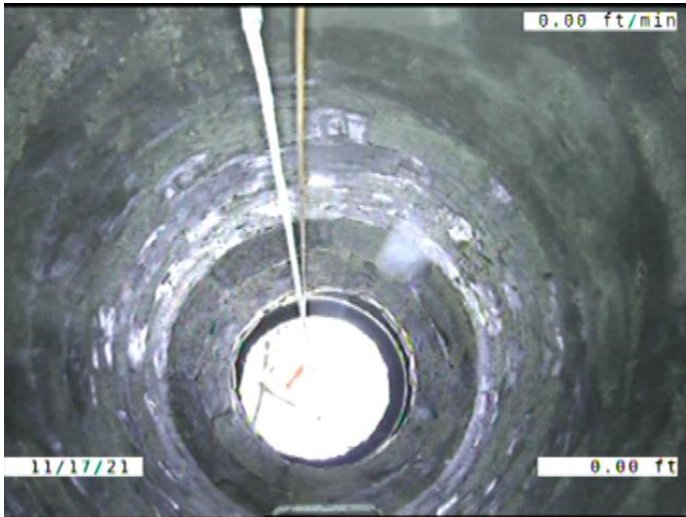
O&M Index:	2.12	O&M Quick:	413A	O&M Rating:	144.00
Structural Index:	3.60	Structural Quick:	4F32	Structural Rating:	162.00
Overall Index:	2.71	Overall Quick:	4F3B	Overall Rating:	306.00

Position	Code	Observation	Video (sec)	Grade
.0	AMH	Manhole	1	NA
.0	MWL	Miscellaneous Water Level	55	NA
1.8	RFJ	Roots Fine Joint	112	M 1
5.3	RML	Roots Medium Lateral	165	M 3
5.3	TFD	Tap Factory Defective	183	M 3
7.6	TFD	Tap Factory Defective	0	M 3
12.6	RFJ	Roots Fine Joint	73	M 1
12.6	DAE(S01)	Deposits Attached Encrustation	118	M 2
19.3	CL	Crack Longitudinal	173	S 2
25.2	CS	Crack Spiral	255	S 2
29.2	CM	Crack Multiple	313	S 3
31.6	CM	Crack Multiple	360	S 3
33.6	FM(S02)	Fracture Multiple	446	S 4
34.4	TF	Tap Factory	472	NA
36.8	TF	Tap Factory	505	NA
62.7	B	Broken	689	S 4
62.7	DR	Deformed Rigid	710	S 4
63.6	RFL	Roots Fine Lateral	745	M 1
63.6	TF	Tap Factory	756	NA



65.4	TFD	Tap Factory Defective	812	M 3
76.5	RFJ(S04)	Roots Fine Joint	929	M 1
78.8	SSS	Surface Damage Surface Spalling	966	S 2
82.3	FM(F02)	Fracture Multiple	994	S 4
94.2	TFD	Tap Factory Defective	1054	M 3
94.4	RMJ	Roots Medium Joint	1105	M 3
96.1	TFD	Tap Factory Defective	1147	M 3
96.4	RMJ	Roots Medium Joint	1181	M 3
102.3	RFJ(F04)	Roots Fine Joint	1227	M 1
115.3	FM(S10)	Fracture Multiple	1293	S 4
120.6	B(S05)	Broken	1318	S 4
120.6	DR(S06)	Deformed Rigid	1327	S 4
123.3	IDC	Infiltration Dripper Connection	1363	M 3
124.2	TFD	Tap Factory Defective	1393	M 3
128.9	DR(F06)	Deformed Rigid	1515	S 4
131.4	B(F05)	Broken	1524	S 4
152.1	RBL	Roots Ball Lateral	1610	M 4
152.8	TFD	Tap Factory Defective	1655	M 3
154.6	TFD	Tap Factory Defective	1718	M 3
181.6	TFD	Tap Factory Defective	1929	M 3
183.4	TFD	Tap Factory Defective	1966	M 3
192.8	MWLS(S08)	Miscellaneous Water Level Sag	2042	S 2
204.3	IWB(S09)	Infiltration Weeper Barrel	2130	M 2
212.5	FM(F10)	Fracture Multiple	2193	S 4
219.1	IWB(F09)	Infiltration Weeper Barrel	2230	M 2
219.1	MWLS(F08)	Miscellaneous Water Level Sag	2238	S 2
222.6	DAE(F01)	Deposits Attached Encrustation	2284	M 2
223.5	AMH	Manhole	2366	NA

M-604-073



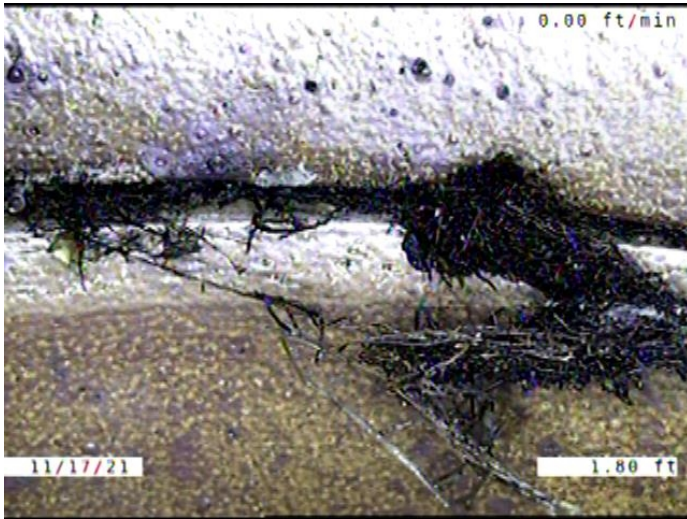
Code: **AMH**
Description: **Manhole**

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-604-074**



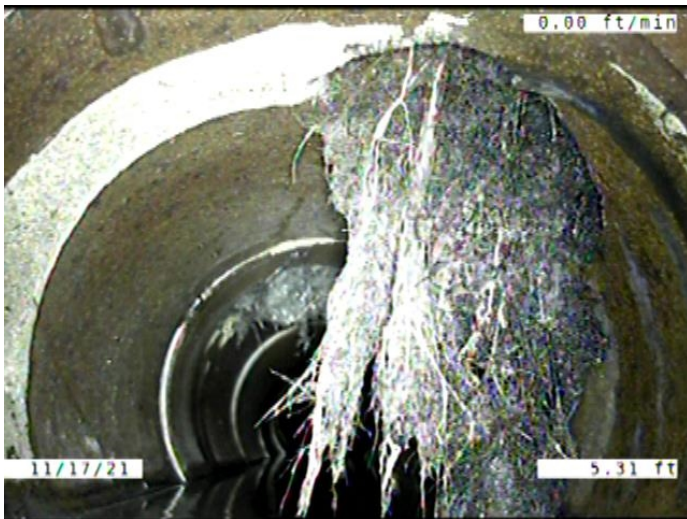
Code: **MWL**
Description: **Miscellaneous Water Level**

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:



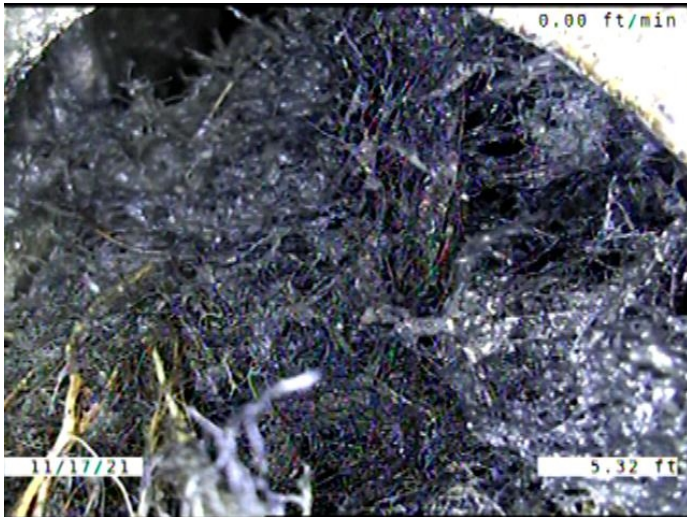
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **1.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



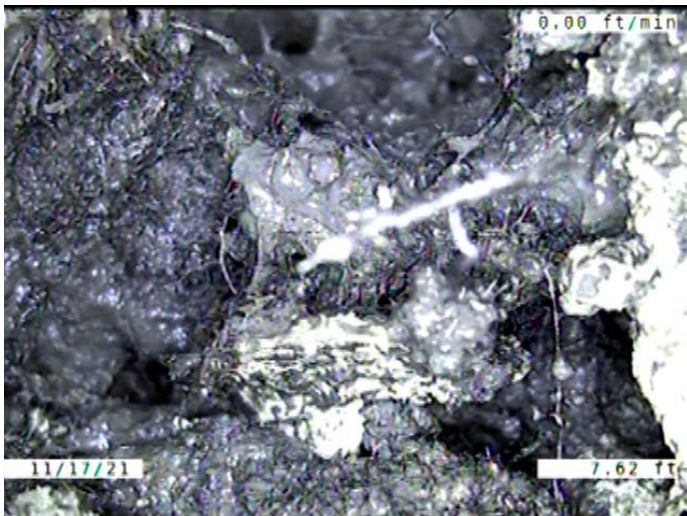
Code: **RML**
 Description: **Roots Medium Lateral**

Distance (ft): **5.3**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **35.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



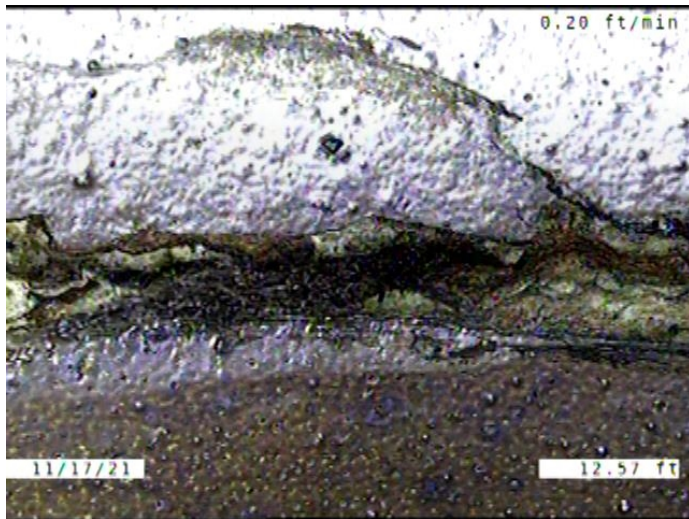
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **5.3**
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: **95% PLUGGED WITH ROOTS.
CONSTANTLY RUNNING WATER.**



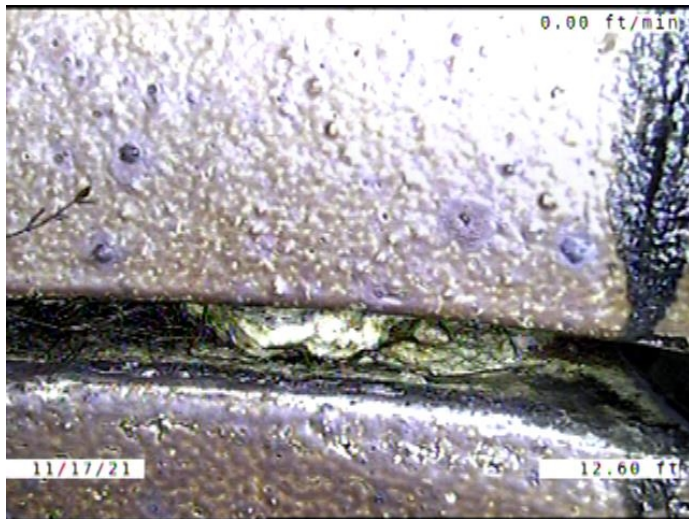
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **7.6**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **11**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **LOOKS TO BE 95 % PLUGGED WITH
ROOTS**



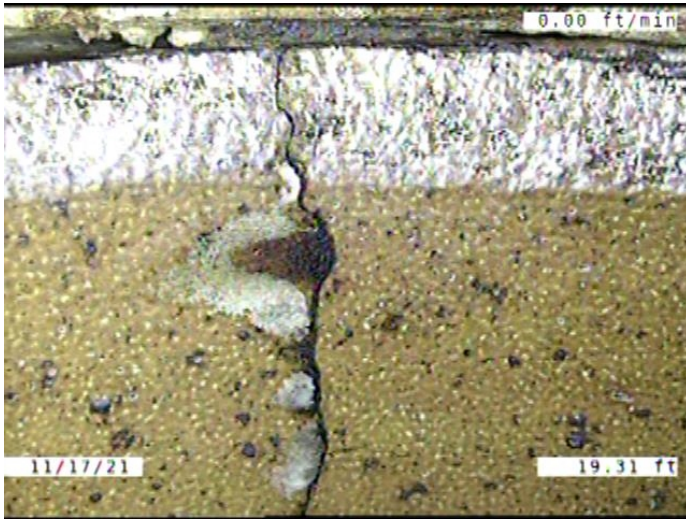
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **12.6**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



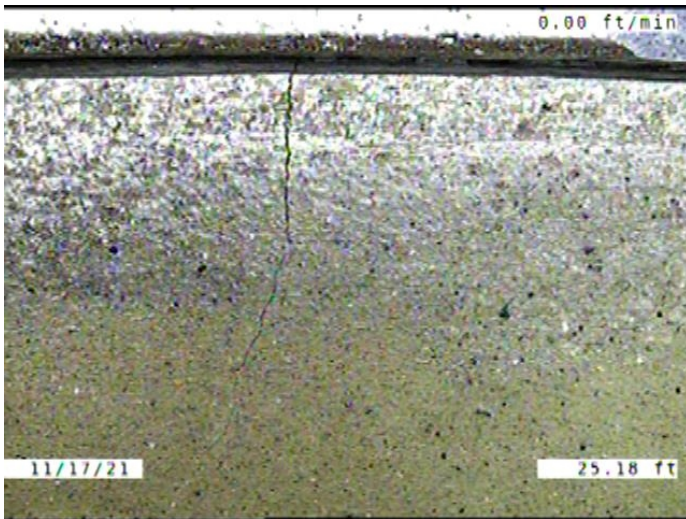
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **12.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S01**
 Within 8" of Joint: **YES**
 Remarks:



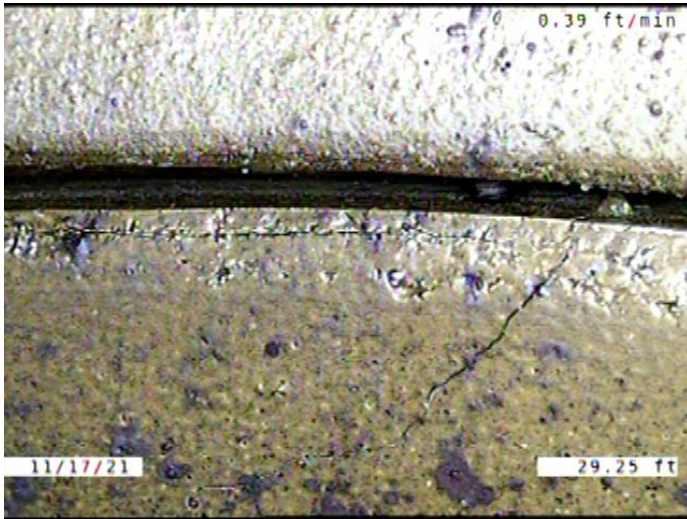
Code: **CL**
Description: **Crack Longitudinal**

Distance (ft): **19.3**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **10**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



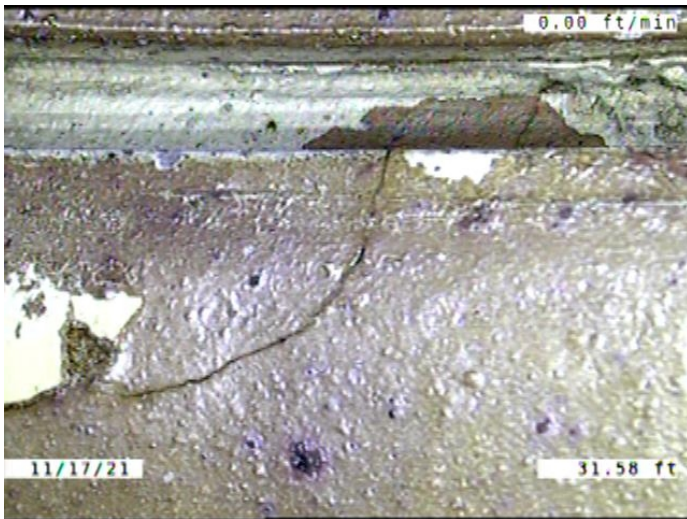
Code: **CS**
Description: **Crack Spiral**

Distance (ft): **25.2**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **10**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



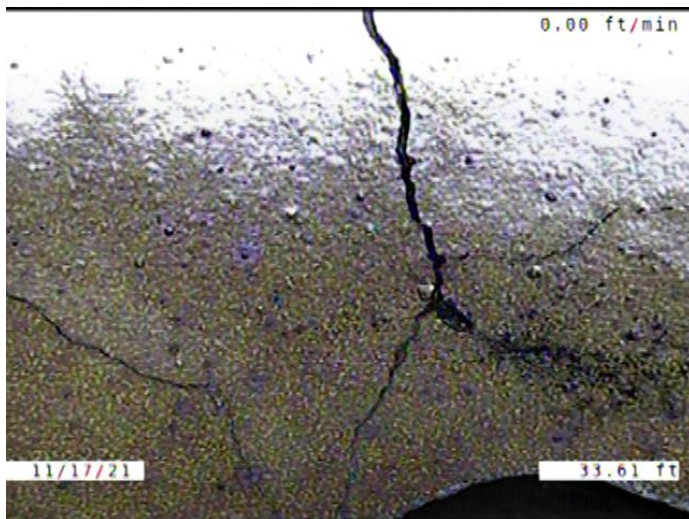
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **29.2**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **2**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



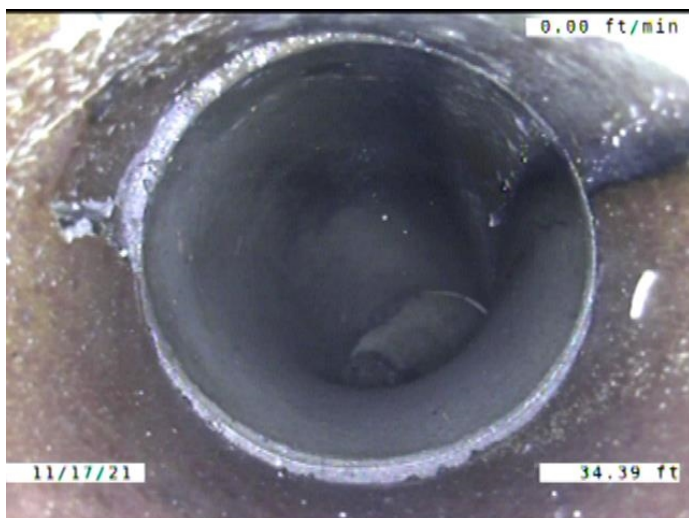
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **31.6**
 Structural Grade: **3**
 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:



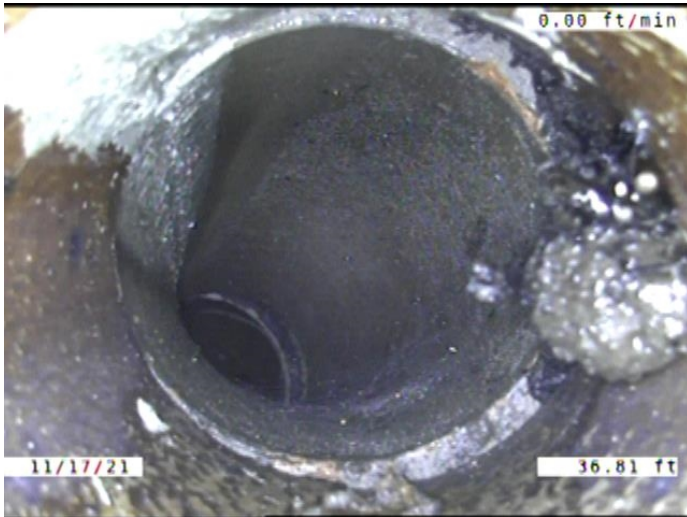
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **33.6**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S02**
 Within 8" of Joint: **YES**
 Remarks:



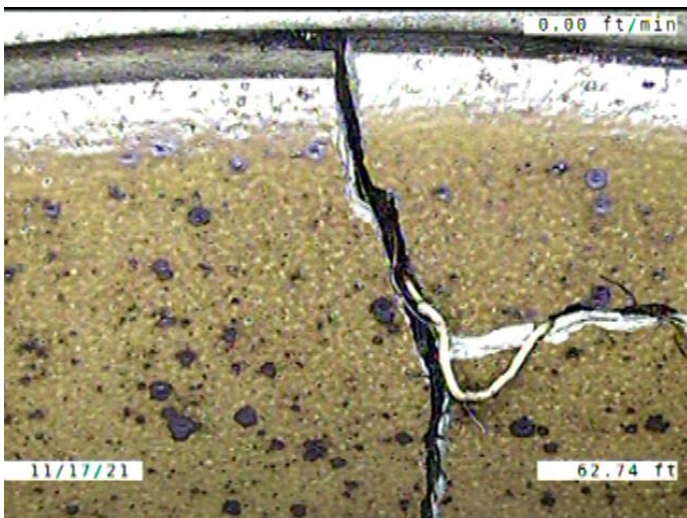
Code: **TF**
 Description: **Tap Factory**

Distance (ft): **34.4**
 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:



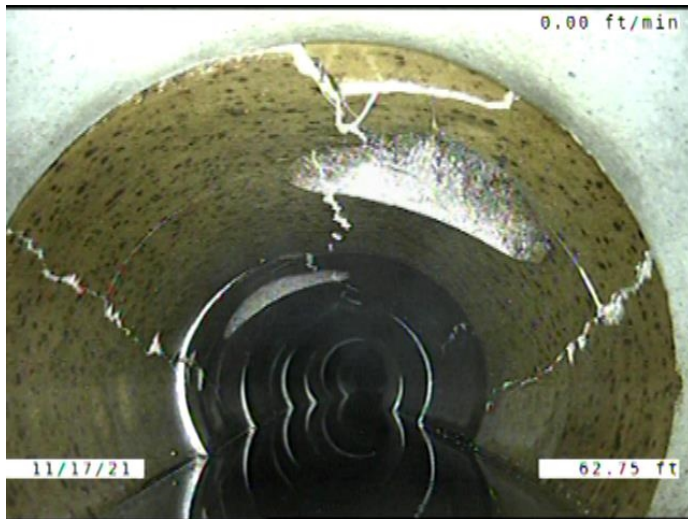
Code: **TF**
Description: **Tap Factory**

Distance (ft): **36.8**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **11**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **ROOTS GROWING OUT OF THE JOINT.**



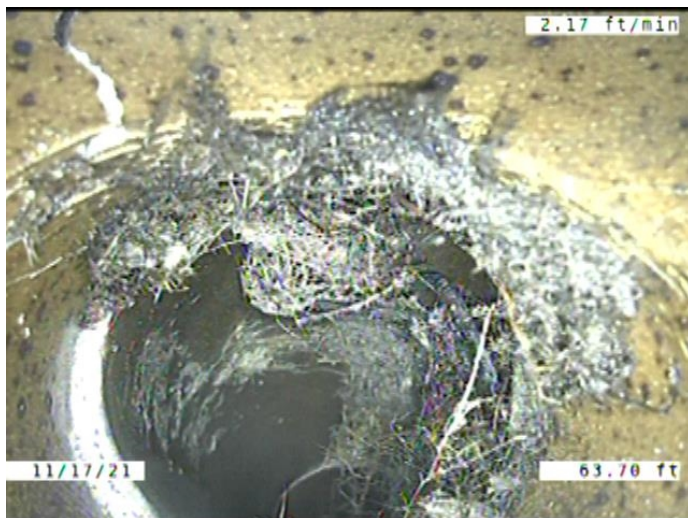
Code: **B**
Description: **Broken**

Distance (ft): **62.7**
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:



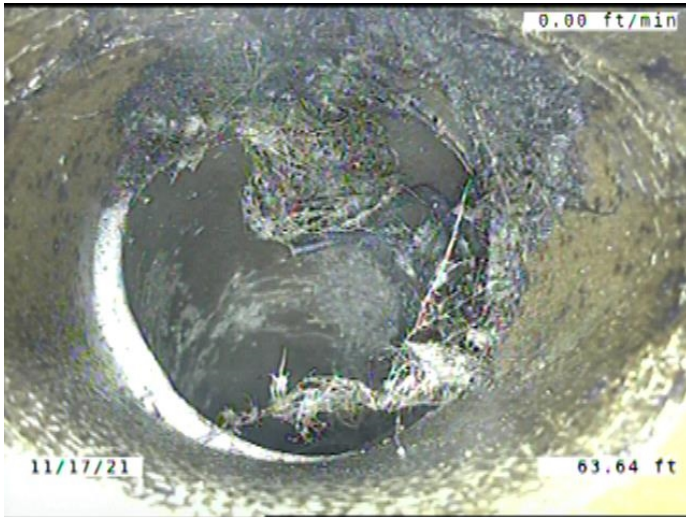
Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **62.7**
 Structural Grade: **4**
 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:

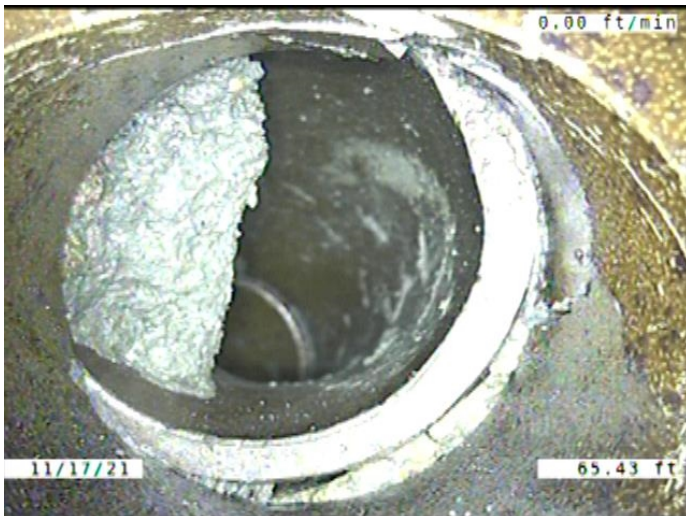


Code: **RFL**
 Description: **Roots Fine Lateral**

Distance (ft): **63.6**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **1**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



Code:	TF
Description:	Tap Factory
Distance (ft):	63.6
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 OUT OF THE JOINTS

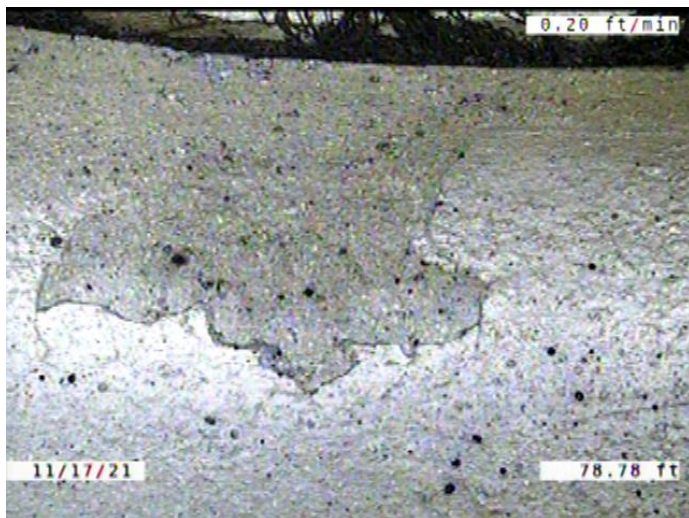


Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	65.4
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	BROKEN. OFFSET.



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

Distance (ft): **76.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S04**
 Within 8" of Joint: **YES**
 Remarks:



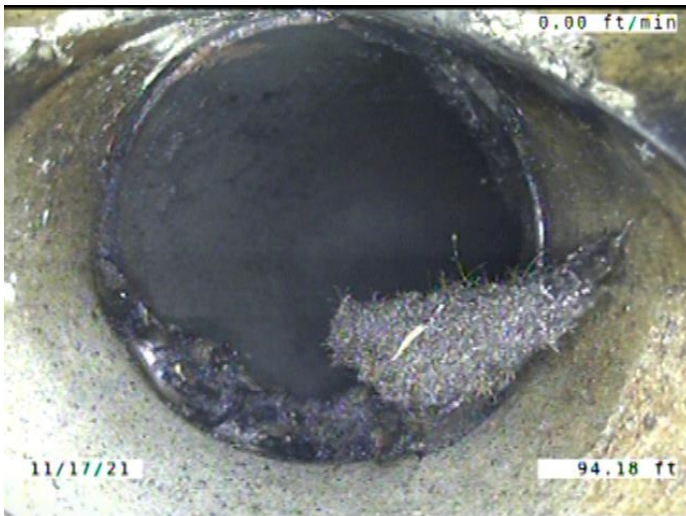
Code: **SSS**
 Description: **Surface Damage Surface Spalling**

Distance (ft): **78.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



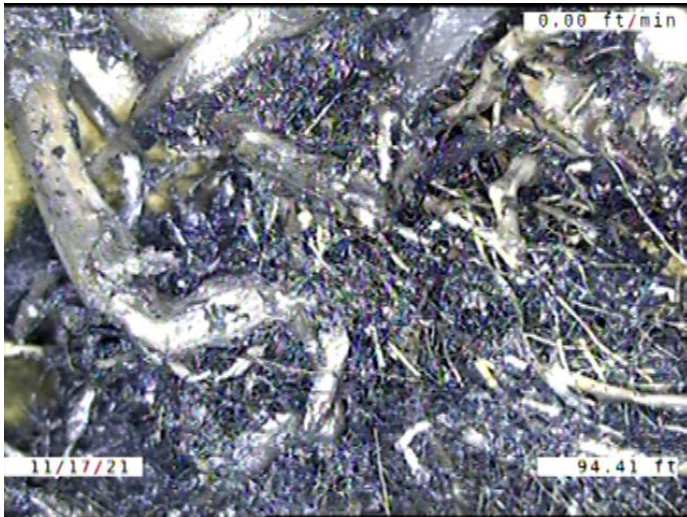
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **82.3**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F02**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **94.2**
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: **BROKEN. ROOTS GROWING OUT OF THE JOINT**



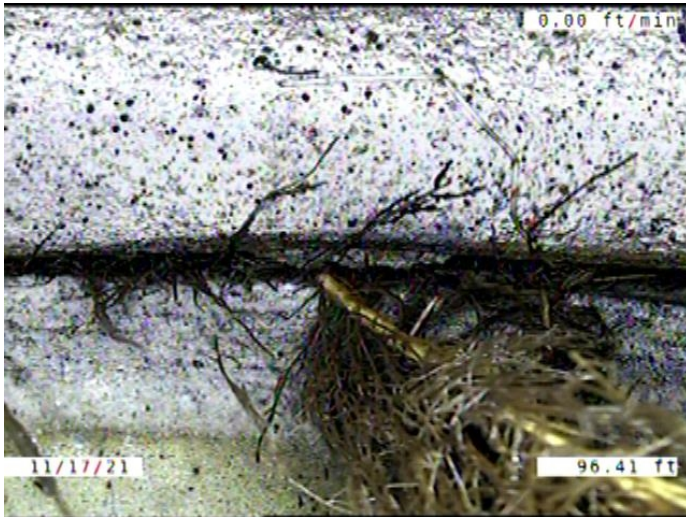
Code: **RMJ**
Description: **Roots Medium Joint**

Distance (ft): **94.4**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **12**
Clock To: **4**
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **96.1**
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: **BROKEN. OFFSET.**



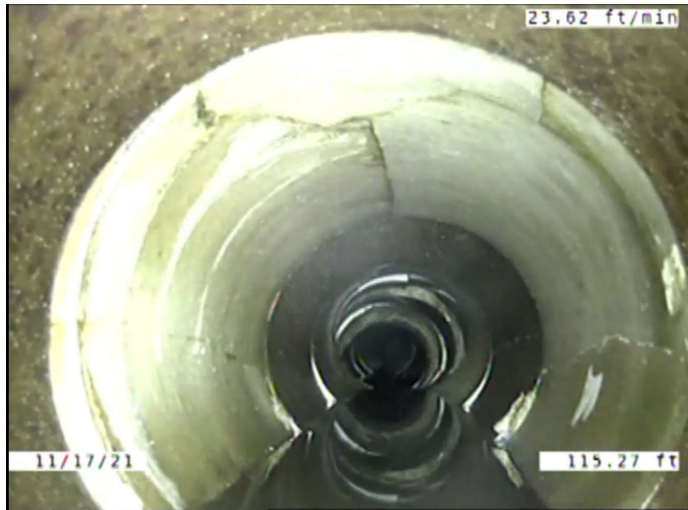
Code: **RMJ**
Description: **Roots Medium Joint**

Distance (ft): **96.4**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



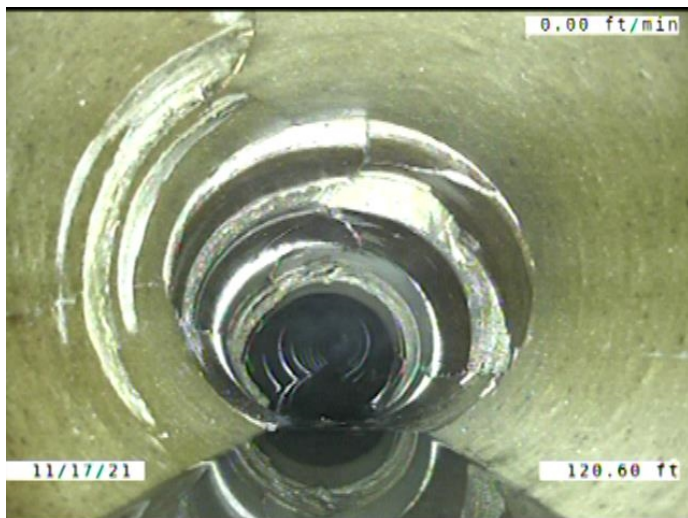
Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **102.3**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **9**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F04**
Within 8" of Joint: **YES**
Remarks:



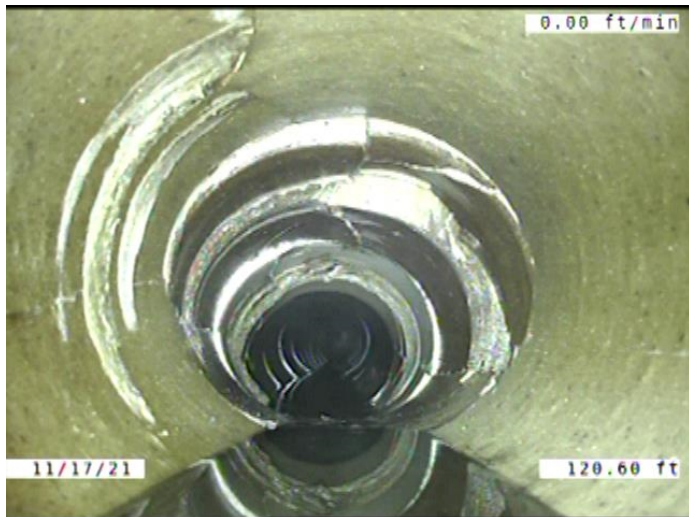
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **115.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S10**
 Within 8" of Joint: **YES**
 Remarks: **Wandering**



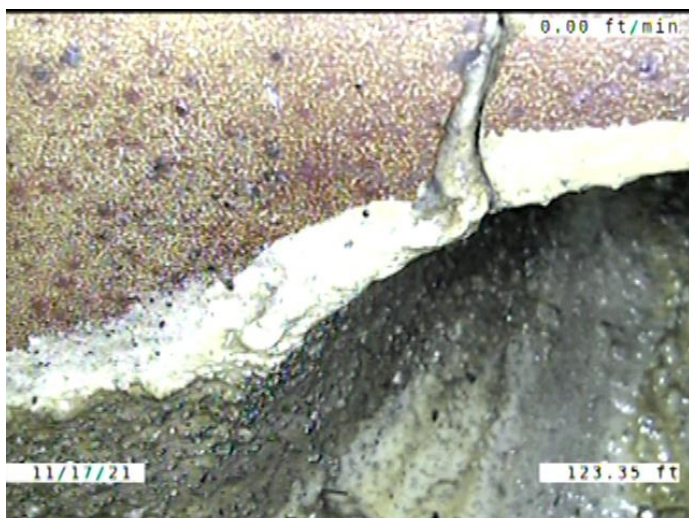
Code: **B**
 Description: **Broken**

Distance (ft): **120.6**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S05**
 Within 8" of Joint: **YES**
 Remarks:



Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **120.6**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S06**
 Within 8" of Joint: **NO**
 Remarks:



Code: **IDC**
 Description: **Infiltration Dripper Connection**

Distance (ft): **123.3**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:

Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	124.2
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:	BROKEN. ENCRUSTATION AROUND THE TAP



Code:	DR
Description:	Deformed Rigid
Distance (ft):	128.9
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F06
Within 8" of Joint:	NO
Remarks:	



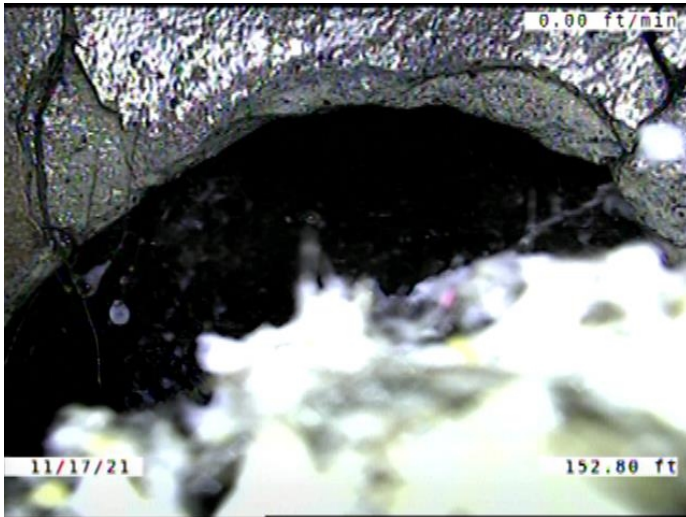
Code: **B**
Description: **Broken**

Distance (ft): **131.4**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F05**
Within 8" of Joint: **YES**
Remarks:



Code: **RBL**
Description: **Roots Ball Lateral**

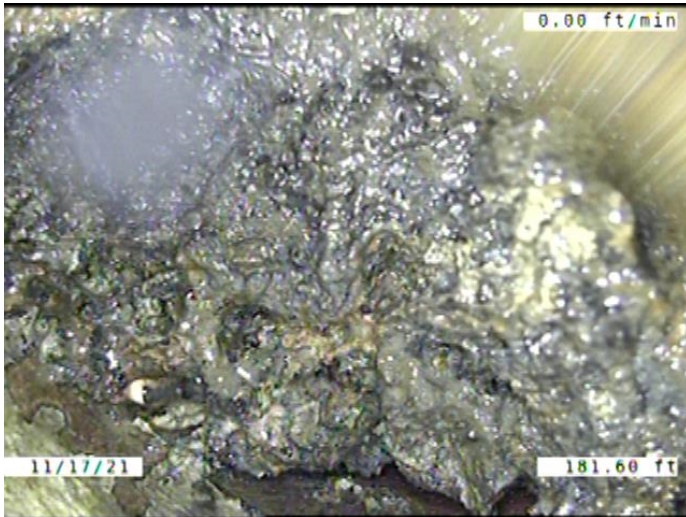
Distance (ft): **152.1**
Structural Grade: **0**
O&M Grade: **4**
Clock Start/From: **12**
Clock To: **2**
1st Value:
2nd Value:
Value Percent: **55.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	152.8
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:	BROKEN. ROOTS GROWING OUT OF THE TAP AND INTO THE MAIN. CONS

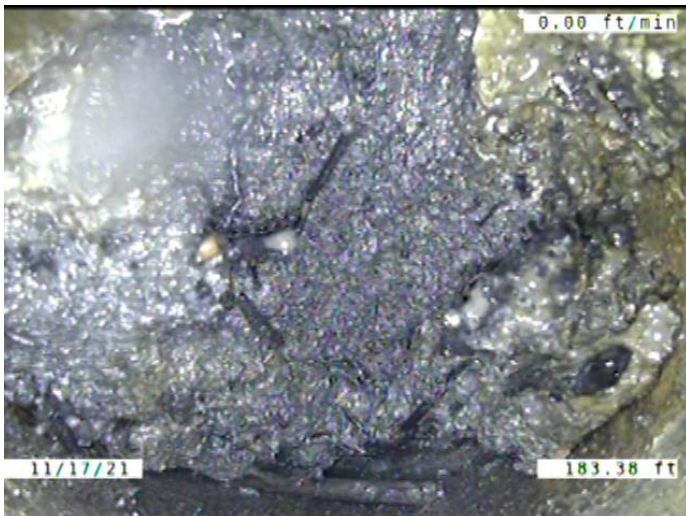


Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	154.6
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	BROKEN. OFFSET. ROOTS GROWING IN THE TAP. SOIL VISIBLE. CONSTAN



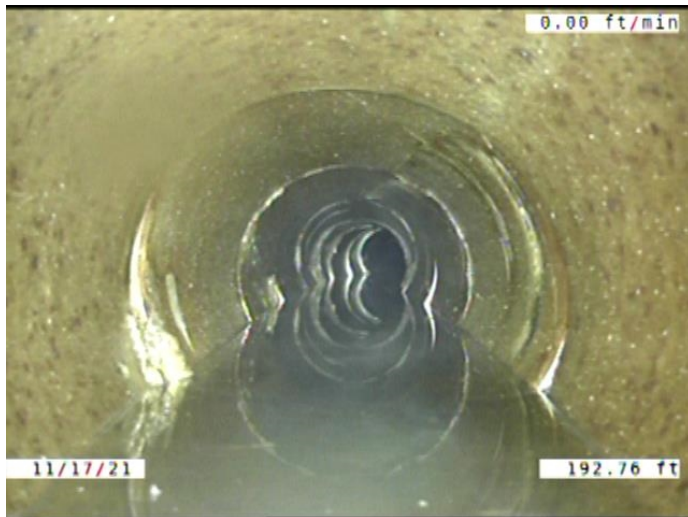
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **181.6**
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: **LOOKS TO BE 100% PLUGGED.**



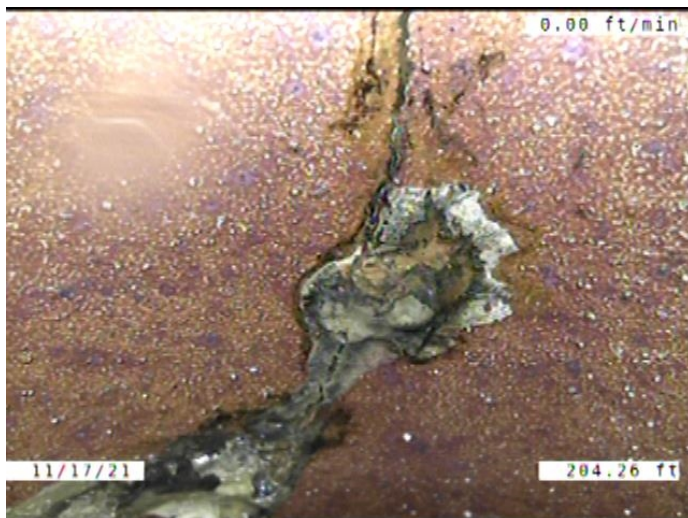
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **183.4**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **11**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **BROKEN. ENCRUSTATION IN THE TAP. ROOTS GROWING IN THE TAP.**



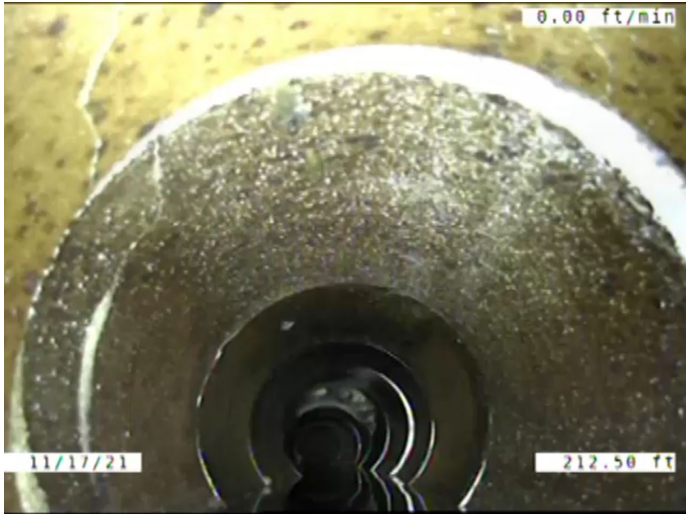
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **192.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **S08**
 Within 8" of Joint: **NO**
 Remarks:



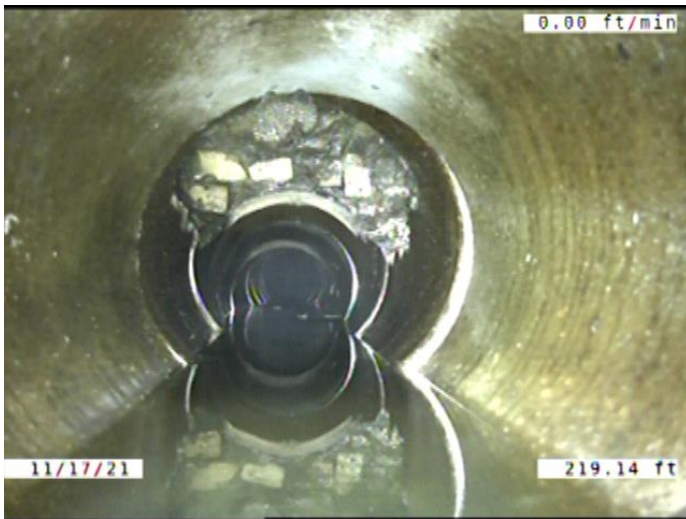
Code: **IWB**
 Description: **Infiltration Weeper Barrel**

Distance (ft): **204.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **11**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S09**
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **212.5**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F10**
Within 8" of Joint: **YES**
Remarks: **Picture\Sec**



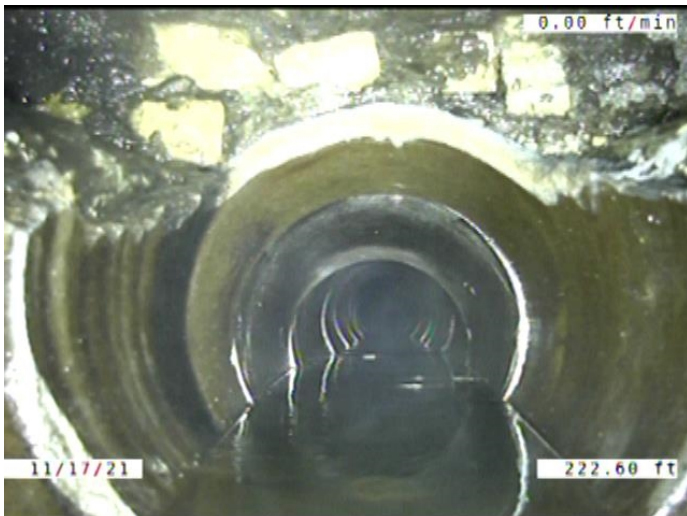
Code: **IWB**
Description: **Infiltration Weeper Barrel**

Distance (ft): **219.1**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **11**
Clock To: **1**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F09**
Within 8" of Joint: **YES**
Remarks:



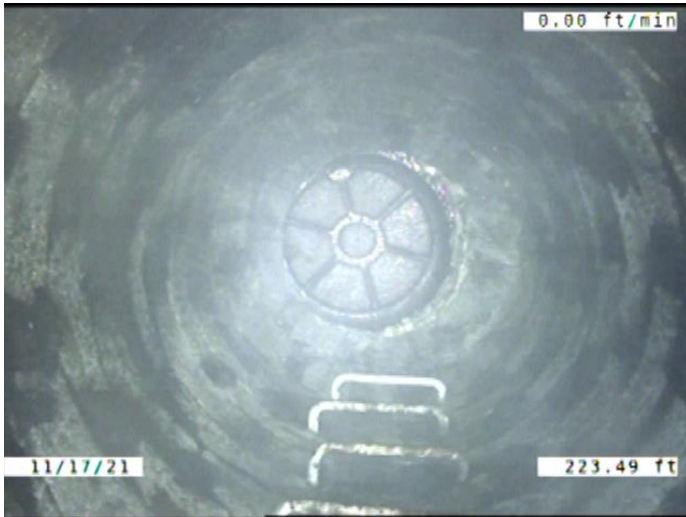
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **219.1**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **F08**
 Within 8" of Joint: **NO**
 Remarks:



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

Distance (ft): **222.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F01**
 Within 8" of Joint: **YES**
 Remarks:



Code:	AMH
Description:	Manhole
Distance (ft):	223.5
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-604-073