

RedZone
ROBOTICS

Street:	East Cleveland Avenue		Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Local rural streets with light traffic, t		Tape/Media #:		
Purpose:	Sewer System Evaluation Survey (SS		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-804-001	DS MH:	M-804-002	Total Length Surveyed (ft):	188.7

O&M Index:	2.22	O&M Quick:	423A	O&M Rating:	100.00
Structural Index:	3.55	Structural Quick:	564F	Structural Rating:	220.00
Overall Index:	2.99	Overall Quick:	564G	Overall Rating:	320.00

Thursday, September 26, 2024

74.4	TBD	Tap Break-in/Hammer Defective	776	M 3
76.2	LL	Line Left	805	M 1
79.1	HVV	Hole Void Visible	858	S 5
83.2	MWLS(F03)	Miscellaneous Water Level Sag	930	S 2
92.0	MWLS(S05)	Miscellaneous Water Level Sag	978	S 2
93.6	TFD	Tap Factory Defective	1007	M 3
95.5	SSS	Surface Damage Surface Spalling	1047	S 2
95.6	TBD	Tap Break-in/Hammer Defective	1061	M 3
106.9	TFD	Tap Factory Defective	1152	M 3
108.5	SSS	Surface Damage Surface Spalling	1197	S 2
108.6	TBD	Tap Break-in/Hammer Defective	1212	M 3
117.3	SMW	Surface Damage Missing Wall	1270	S 5
118.5	TFD	Tap Factory Defective	1297	M 3
119.4	RFJ	Roots Fine Joint	1347	M 1
123.7	LL	Line Left	1380	M 2
124.9	SMW	Surface Damage Missing Wall	1450	S 5
124.9	BVV	Broken Void Visible	1540	S 5
133.4	MWLS(F05)	Miscellaneous Water Level Sag	1590	S 2
150.9	MWLS(S06)	Miscellaneous Water Level Sag	1662	S 4
153.2	TS	Tap Saddle	1706	NA
157.5	JAL	Joint Angular Large	1777	S 4
174.3	TFD	Tap Factory Defective	1950	M 3
176.7	MCU(S07)	Miscellaneous Camera Underwater	2012	M 4
188.6	MCU(F07)	Miscellaneous Camera Underwater	2146	M 4
188.6	MWLS(F06)	Miscellaneous Water Level Sag	2153	S 4
188.6	FM(F02)	Fracture Multiple	2160	S 4
188.6	ISGT(F04)	Intruding Sealing Material Grout	2167	M 2
188.6	OBP	Obstruction External Pipe or Cable	2190	M 2
188.7	MSA	Miscellaneous Survey Abandoned	2208	NA

M-804-002



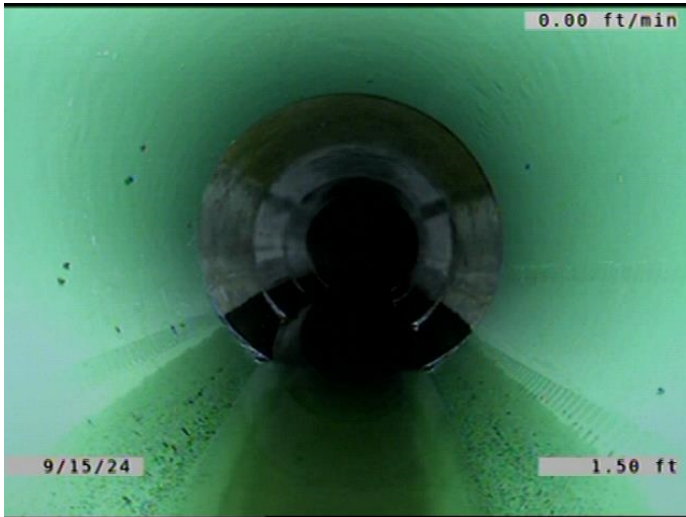
Code: **AMH**
Description: **Manhole**

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-804-001**



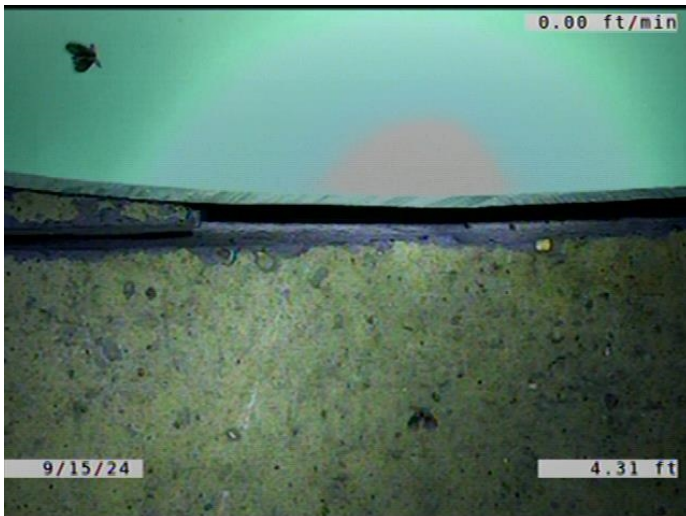
Code: **MWL**
Description: **Miscellaneous Water Level**

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: **MGO**
Description: **Miscellaneous General Observation**

Distance (ft): **1.5**
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: **NO CHANNEL IN THE MANHOLE.
HAD TO START IN THE PIPE.**



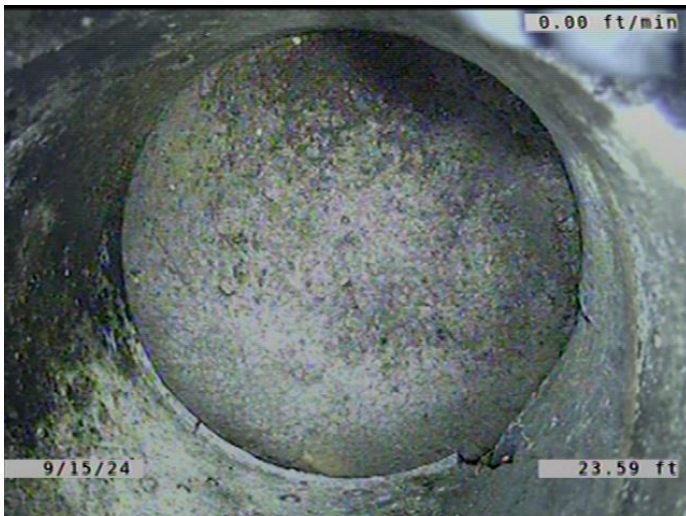
Code: **MMC**
Description: **Miscellaneous Material Change**

Distance (ft): **4.3**
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: **PVC TO VCP**



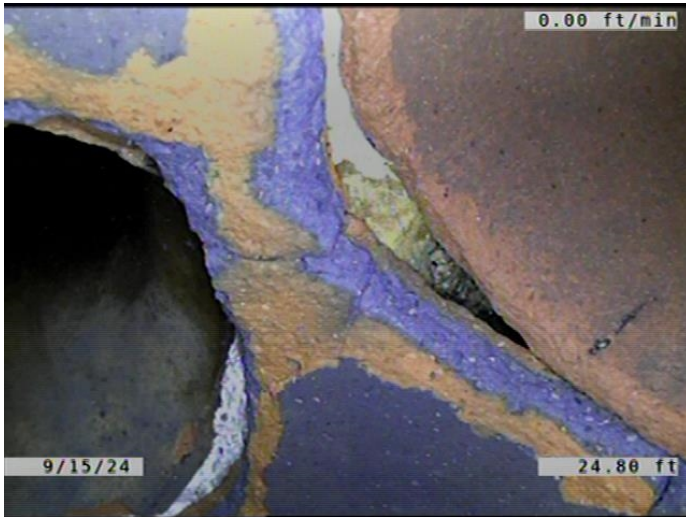
Code: **LR**
Description: **Line Right**

Distance (ft): **9.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



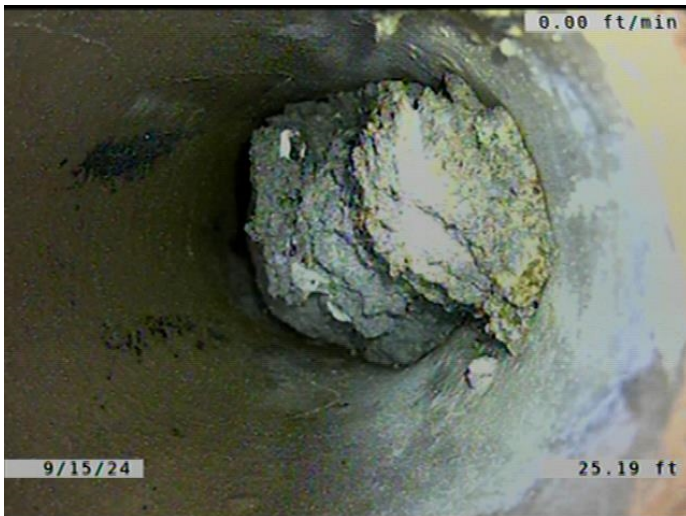
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **23.6**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **3**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. TAP BROKEN.**



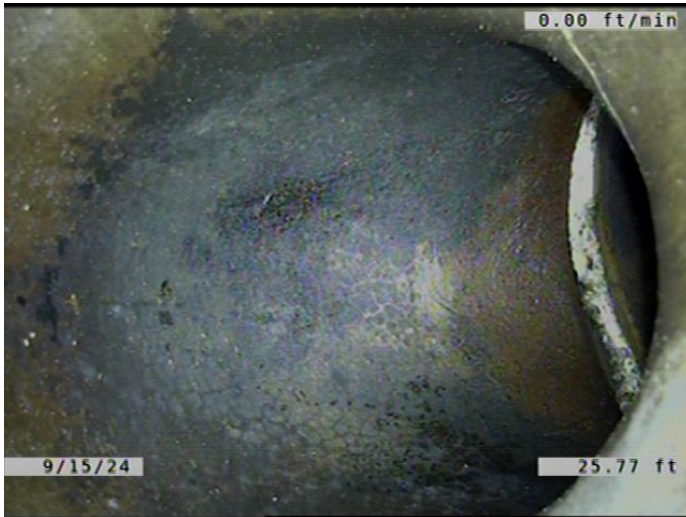
Code: **B**
Description: **Broken**

Distance (ft): **24.8**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **11**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **25.2**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **3**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **LOOKS TO BE 100% PLUGGED WITH DIRT.**



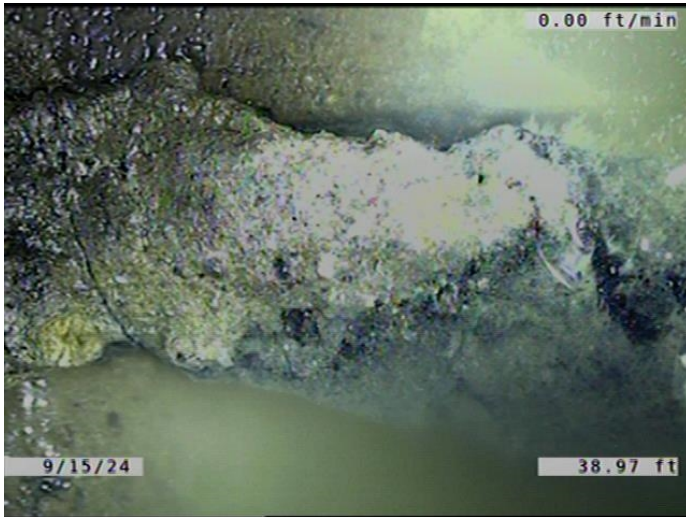
Code: **TB**
Description: **Tap Break-in/Hammer**

Distance (ft): **25.8**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **1**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **38.3**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **S01**
Within 8" of Joint: **NO**
Remarks:



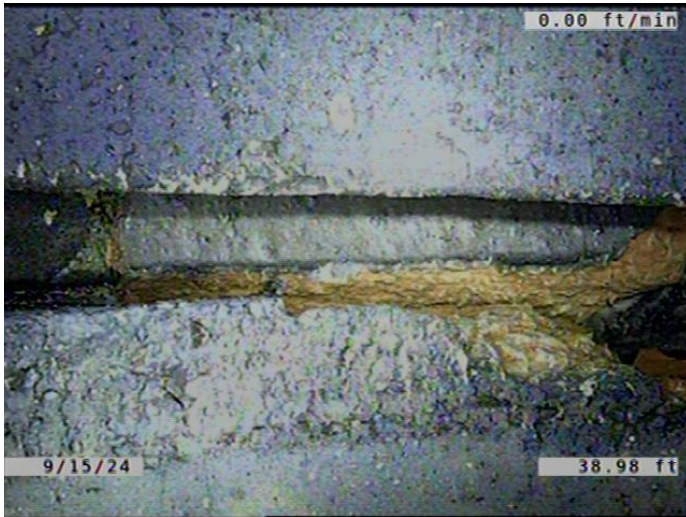
Code: **ISGT**
Description: **Intruding Sealing Material Grout**

Distance (ft): **39.0**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **4**
Clock To: **8**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **SMW**
Description: **Surface Damage Missing Wall**

Distance (ft): **39.0**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **1**
Clock To: **2**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



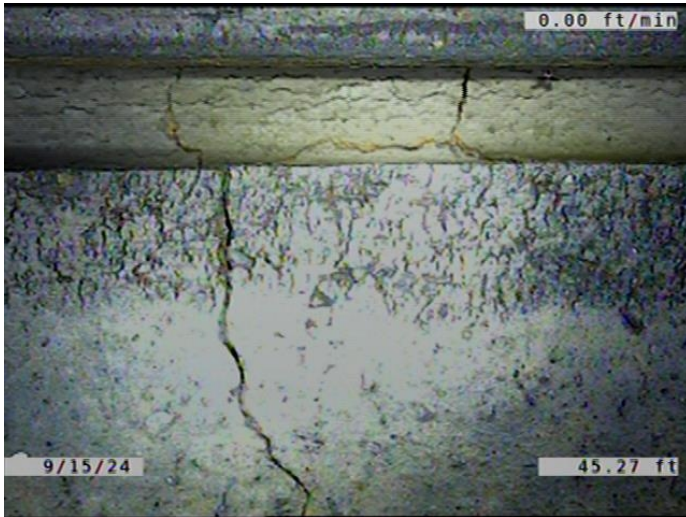
Code: **BVV**
Description: **Broken Void Visible**

Distance (ft): **39.0**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **9**
Clock To: **2**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **SOIL VISIBLE ALSO.**



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

Distance (ft): **44.1**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **F01**
Within 8" of Joint: **NO**
Remarks:



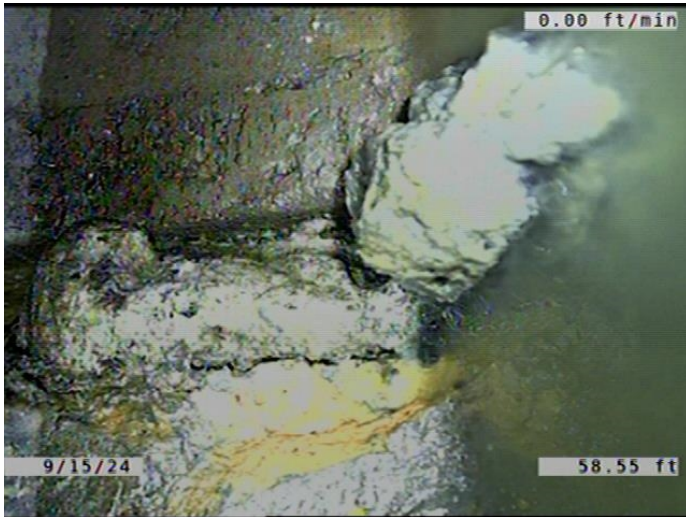
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **45.3**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S02**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **51.3**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **S03**
Within 8" of Joint: **NO**
Remarks:



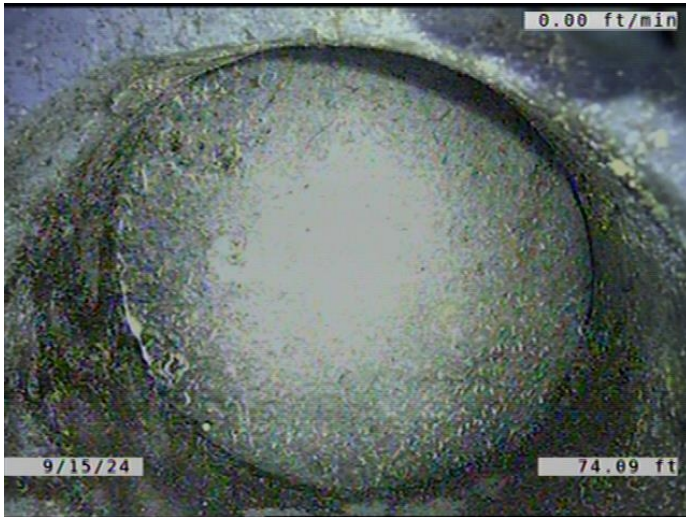
Code: **ISGT**
Description: **Intruding Sealing Material Grout**

Distance (ft): **58.6**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **4**
Clock To: **8**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **S04**
Within 8" of Joint: **NO**
Remarks:



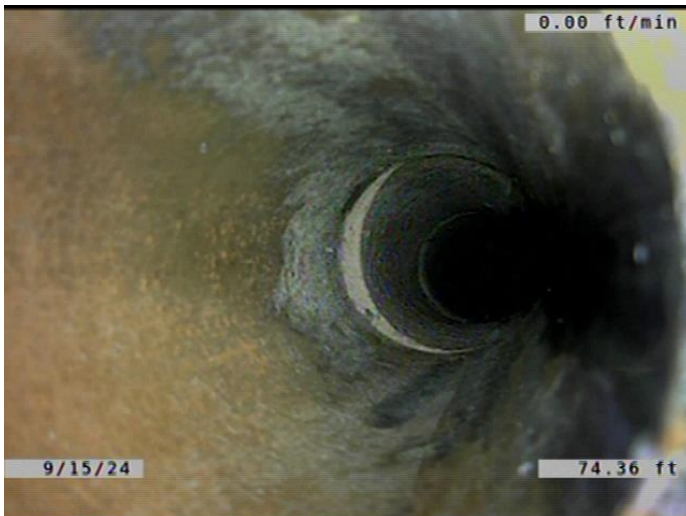
Code: **LR**
Description: **Line Right**

Distance (ft): **70.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



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

Distance (ft): **74.1**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **2**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. TAP BROKEN.**



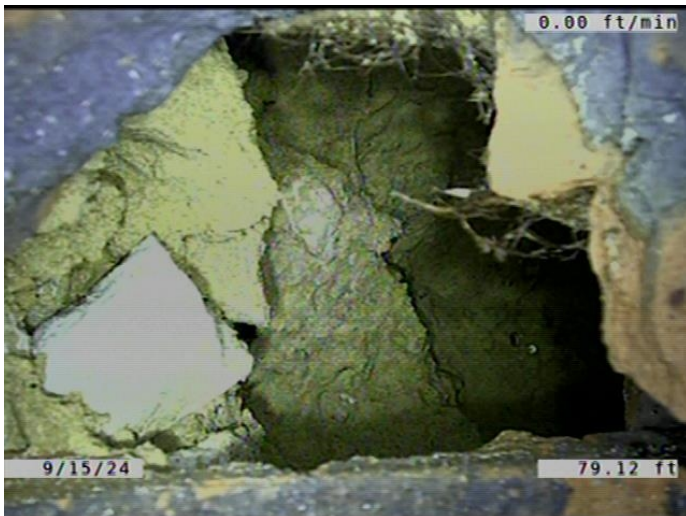
Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **74.4**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **3**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CONSTANTLY RUNNING WATER.**



Code: **LL**
Description: **Line Left**

Distance (ft): **76.2**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **HVV**
Description: **Hole Void Visible**

Distance (ft): **79.1**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **11**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



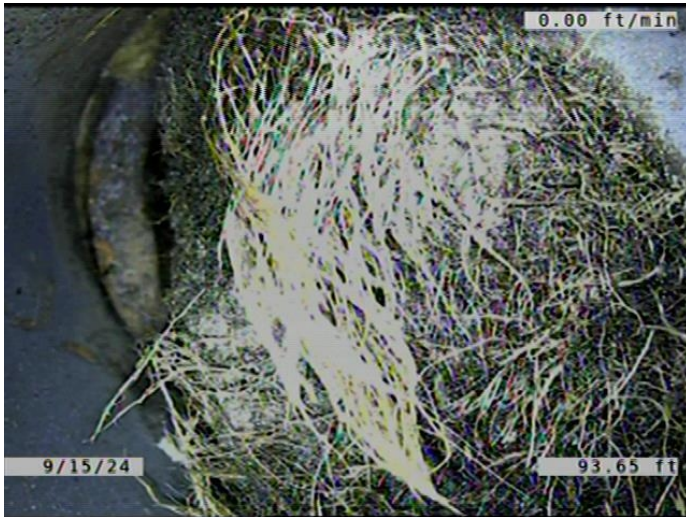
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **83.2**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **F03**
Within 8" of Joint: **NO**
Remarks:

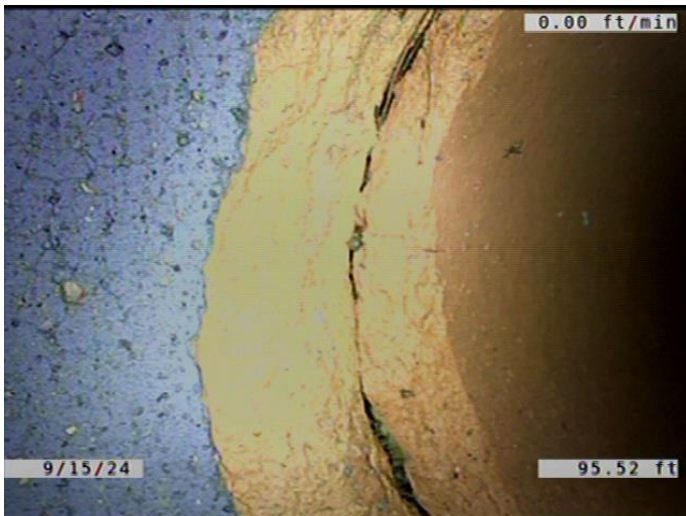


Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

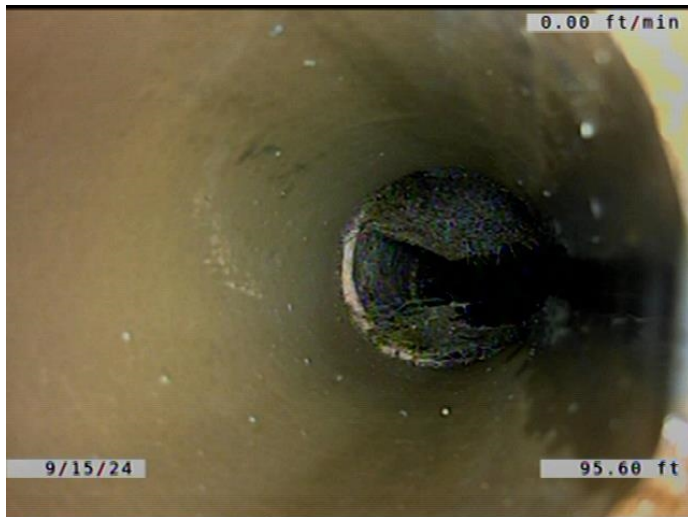
Distance (ft): **92.0**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **S05**
Within 8" of Joint: **NO**
Remarks:



Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	93.6
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	2
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	SERVICE OFFSET. SOIL VISIBLE. LOOKS TO BE 95% PLUGGED WITH R

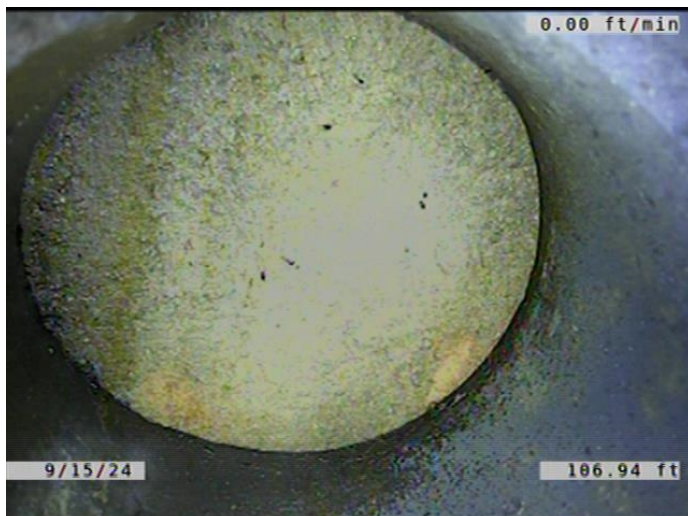


Code:	SSS
Description:	Surface Damage Surface Spalling
Distance (ft):	95.5
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



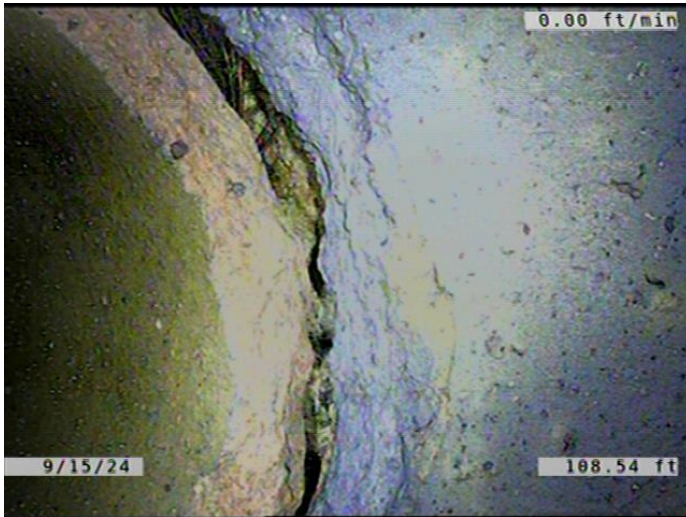
Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **95.6**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **3**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **SERVICE CRACKED. LOOKS TO BE 95
% PLUGGED WITH ROOTS. CONSTAN**



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

Distance (ft): **106.9**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **9**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. TAP CRACKED.**



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

Distance (ft): **108.5**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **11**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **108.6**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **9**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **LOOKS TO BE 100% PLUGGED WITH DIRT.**



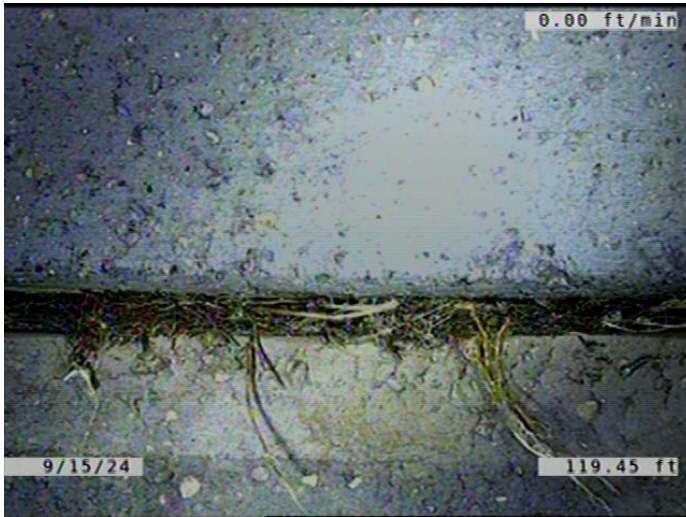
Code: **SMW**
Description: **Surface Damage Missing Wall**

Distance (ft): **117.3**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **9**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **THE INSIDE OF THE JOINT.**



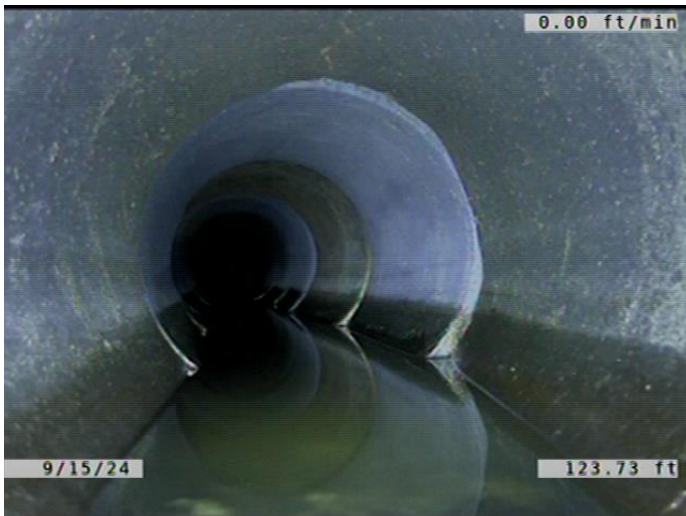
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **118.5**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **2**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **TAP BROKEN. SERVICE LOOKS TO BE 95% PLUGGED WITH ROOTS.**



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

Distance (ft): **119.4**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



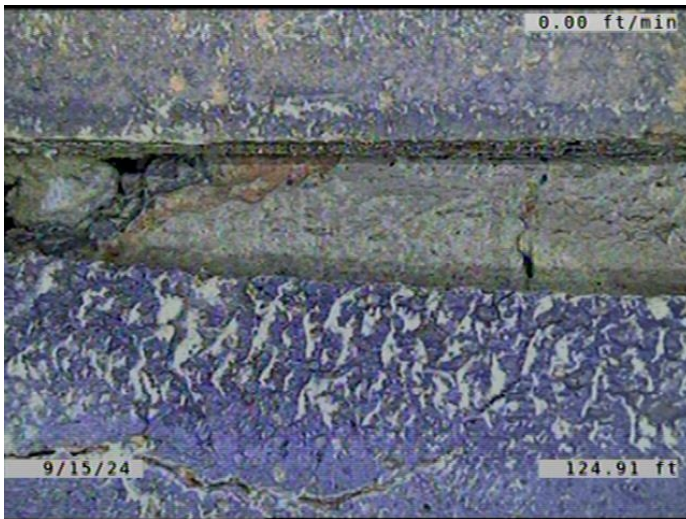
Code: **LL**
Description: **Line Left**

Distance (ft): **123.7**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **SMW**
Description: **Surface Damage Missing Wall**

Distance (ft): **124.9**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **11**
Clock To: **1**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **LARGE VOID AND SOIL VISIBLE. CAN SEE THE NEW STORM PIPE LAID BY G**



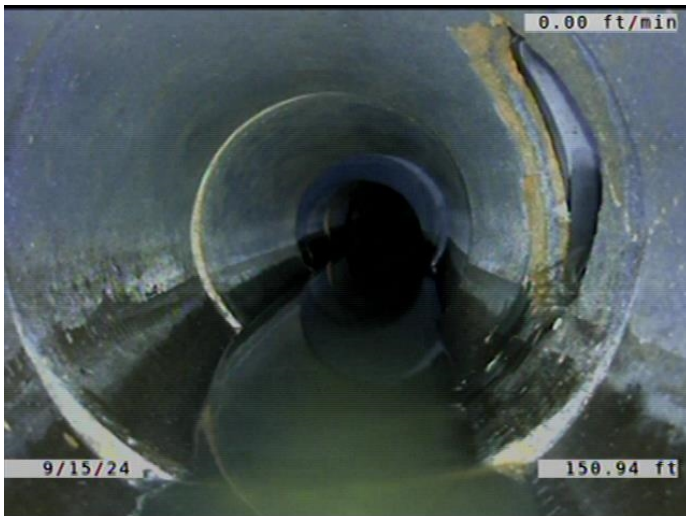
Code: **BVV**
Description: **Broken Void Visible**

Distance (ft): **124.9**
Structural Grade: **5**
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: **SOIL VISIBLE ALSO.**



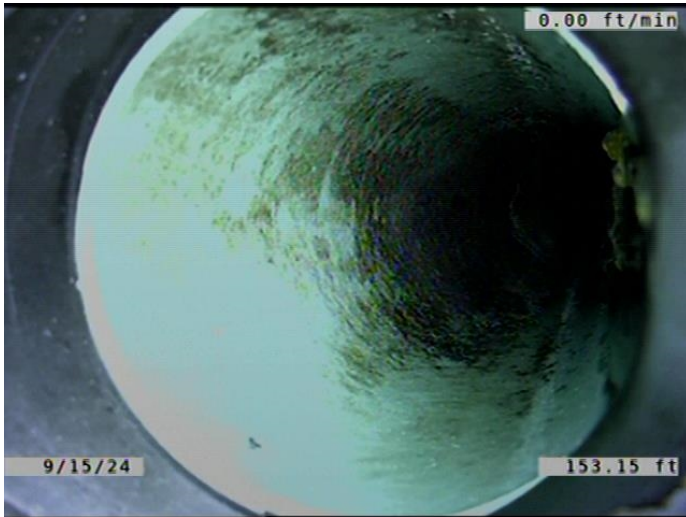
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **133.4**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **F05**
Within 8" of Joint: **NO**
Remarks:



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

Distance (ft): **150.9**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **55.000**
Continuous Index: **S06**
Within 8" of Joint: **NO**
Remarks:



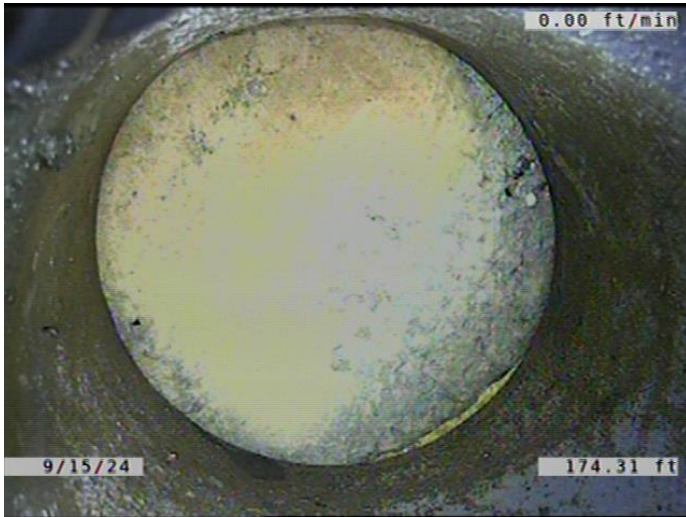
Code: **TS**
Description: **Tap Saddle**

Distance (ft): **153.2**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **3**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **PVC SERVICE.**



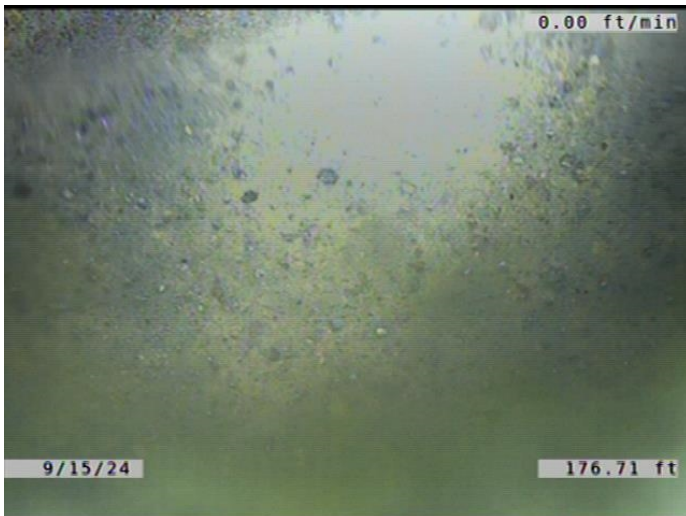
Code: **JAL**
Description: **Joint Angular Large**

Distance (ft): **157.5**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



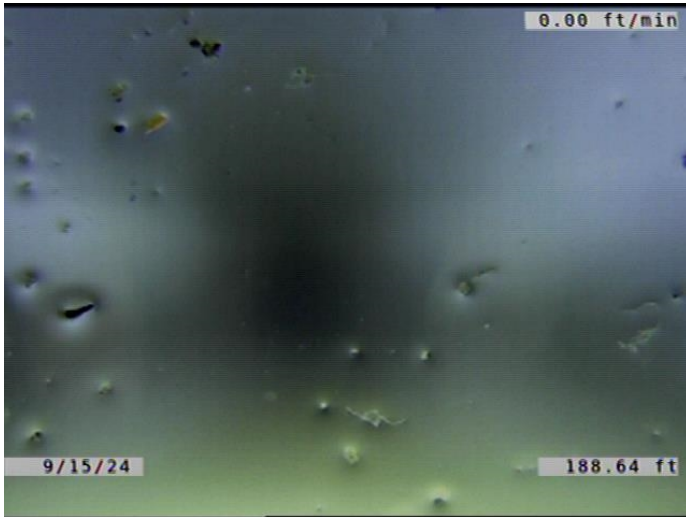
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **174.3**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **10**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. SOIL VISIBLE. AROUND THE CAP.**

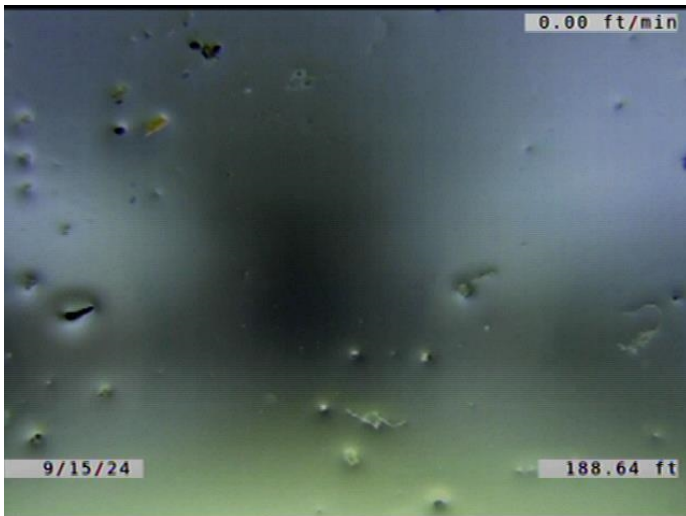


Code: **MCU**
Description: **Miscellaneous Camera Underwater**

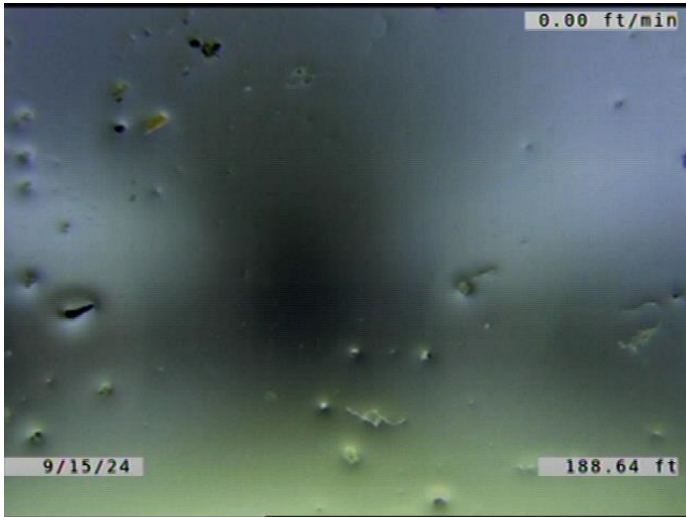
Distance (ft): **176.7**
Structural Grade: **0**
O&M Grade: **4**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S07**
Within 8" of Joint: **NO**
Remarks:



Code:	MCU
Description:	Miscellaneous Camera Underwater
Distance (ft):	188.6
Structural Grade:	0
O&M Grade:	4
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F07
Within 8" of Joint:	NO
Remarks:	

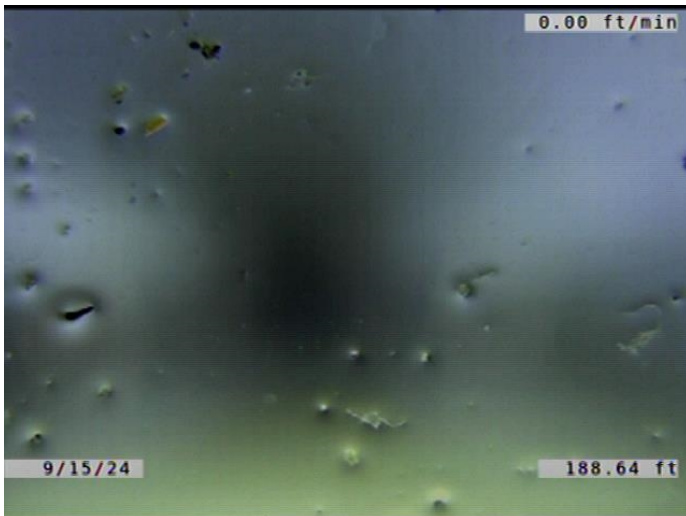


Code:	MWLS
Description:	Miscellaneous Water Level Sag
Distance (ft):	188.6
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	55.000
Continuous Index:	F06
Within 8" of Joint:	NO
Remarks:	



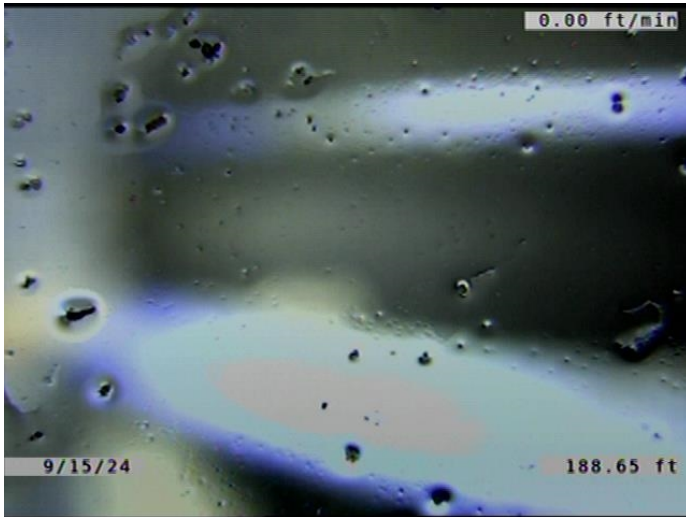
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **188.6**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F02**
Within 8" of Joint: **YES**
Remarks:

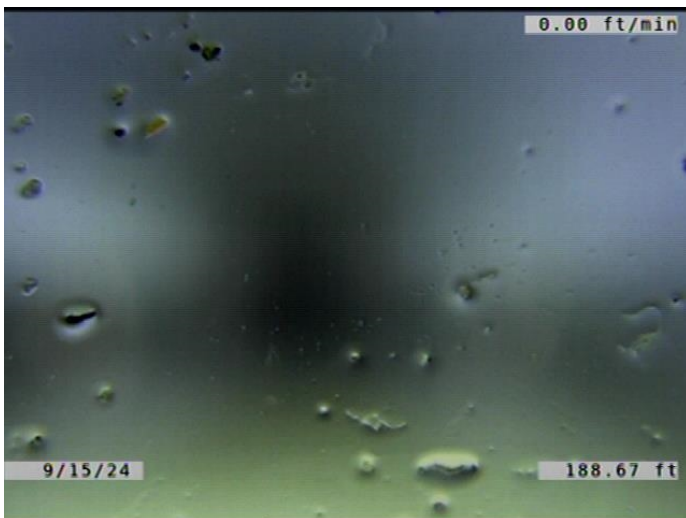


Code: **ISGT**
Description: **Intruding Sealing Material Grout**

Distance (ft): **188.6**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **4**
Clock To: **8**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F04**
Within 8" of Joint: **NO**
Remarks:



Code:	OBP
Description:	Obstruction External Pipe or Cable
Distance (ft):	188.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	10
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	MSA
Description:	Miscellaneous Survey Abandoned
Distance (ft):	188.7
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:	MADE IT TO THE POINT OF OVERLAP. REVERSAL COMPLETE.