

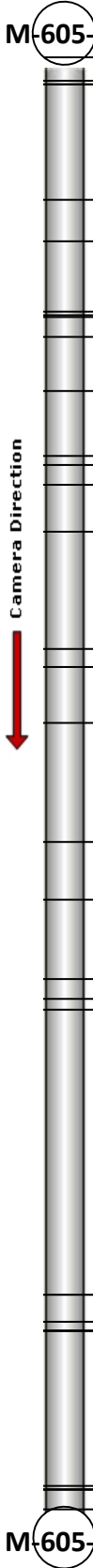
## Profile/Photo Observation Report

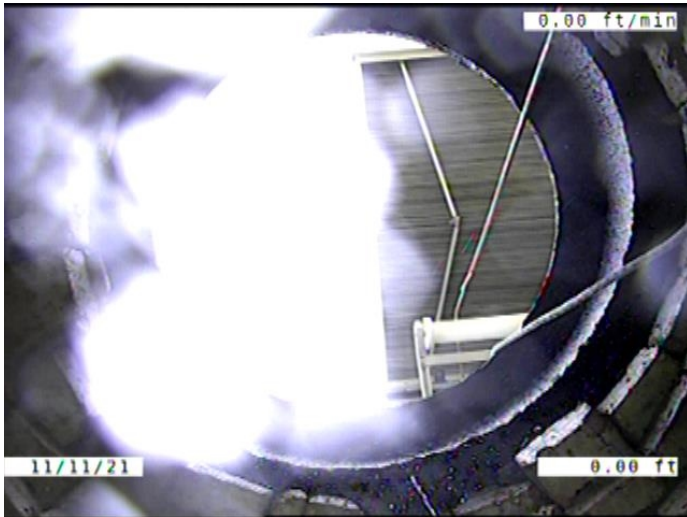


Date:	11/11/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	172.2	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	Steven Bucklin	PSR:	P-605-029-028
Customer:	City of Hobart, IN (Red	Clean Date:	11/10/2021	Shape:	C

Street:	South Ash 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-605-028	DS MH:	M-605-029
		Total Length Surveyed (ft):	172.2

O&M Index:	2.17	O&M Quick:	372D	O&M Rating:	76.00
Structural Index:	3.28	Structural Quick:	4G31	Structural Rating:	213.00
Overall Index:	2.89	Overall Quick:	4G38	Overall Rating:	289.00

	Position	Code	Observation	Video (sec)	Grade
					
	.0	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	78	NA
	2.7	SSS	Surface Damage Surface Spalling	123	S 2
	3.2	SZ	Surface Damage Other	148	NA
	3.2	CM	Crack Multiple	189	S 3
	17.0	MWLS	Miscellaneous Water Level Sag	264	S 2
	21.9	SZ	Surface Damage Other	297	NA
	30.1	FM(S01)	Fracture Multiple	405	S 4
	30.5	SSS	Surface Damage Surface Spalling	424	S 2
	30.9	TB	Tap Break-in/Hammer	0	NA
	33.1	TF	Tap Factory	28	NA
	39.6	DSF(S02)	Deposits Settled Fine	97	M 2
	47.2	B	Broken	141	S 4
	48.3	DR(S03)	Deformed Rigid	159	S 4
	50.6	RFJ	Roots Fine Joint	188	M 1
	56.2	MWLS(S04)	Miscellaneous Water Level Sag	229	S 2
	70.1	TFD	Tap Factory Defective	314	M 3
	72.4	TF	Tap Factory	345	NA
	78.9	MWLS(F04)	Miscellaneous Water Level Sag	387	S 2
	93.0	MWLS(S06)	Miscellaneous Water Level Sag	465	S 2
	99.8	RTJ	Roots Tap Joint	504	M 2
	109.4	TFD	Tap Factory Defective	561	M 3
	111.7	TFD	Tap Factory Defective	603	M 3
	113.0	DR(F03)	Deformed Rigid	639	S 4
	146.8	FM(F01)	Fracture Multiple	747	S 4
	146.8	MMC	Miscellaneous Material Change	810	NA
	150.0	TF	Tap Factory	855	NA
	151.1	MMC	Miscellaneous Material Change	921	NA
	151.1	RMJ(S07)	Roots Medium Joint	934	M 3
	151.1	FM(S08)	Fracture Multiple	964	S 4
	169.5	FM(F08)	Fracture Multiple	1118	S 4
	169.8	MWLS(F06)	Miscellaneous Water Level Sag	1136	S 2
	169.8	RMJ(F07)	Roots Medium Joint	1144	M 3
	169.8	DSF(F02)	Deposits Settled Fine	1152	M 2
	172.2	AMH	Manhole	1279	NA



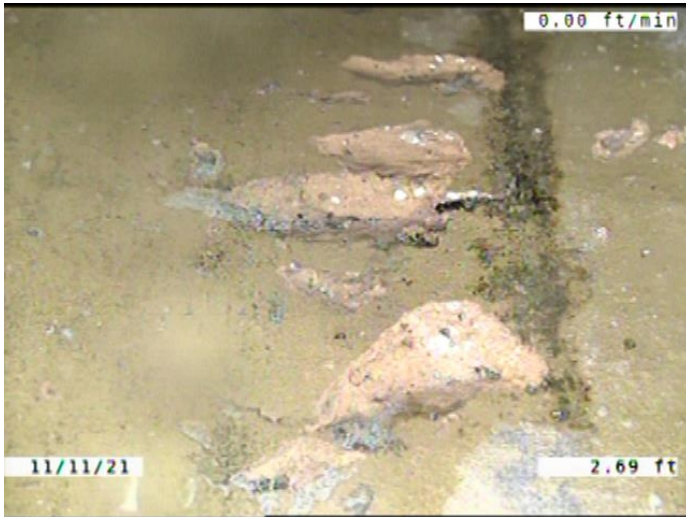
Code: **AMH**  
 Description: **Manhole**

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-605-028**



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

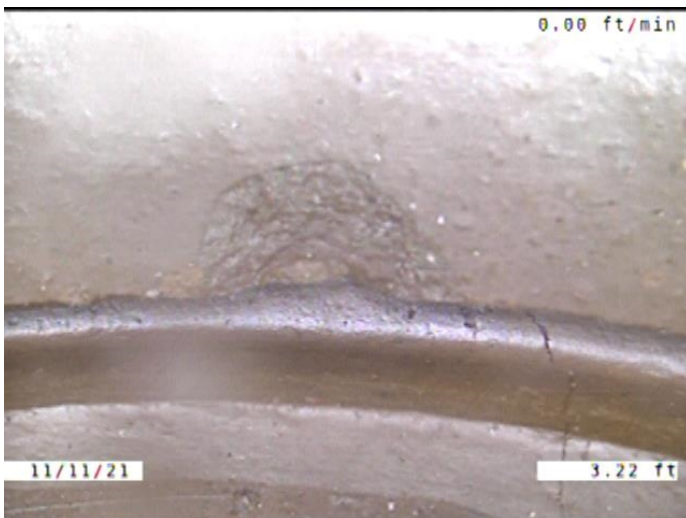
Distance (ft): **.0**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



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

Distance (ft): **2.7**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **5**  
Clock To: **6**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

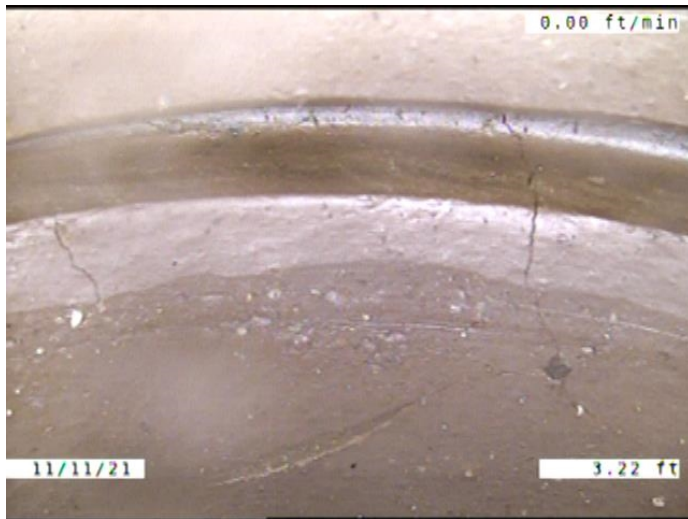
---



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

Distance (ft): **3.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **A PIECE GOT CHIPPED AWAY FROM THE JOINT**

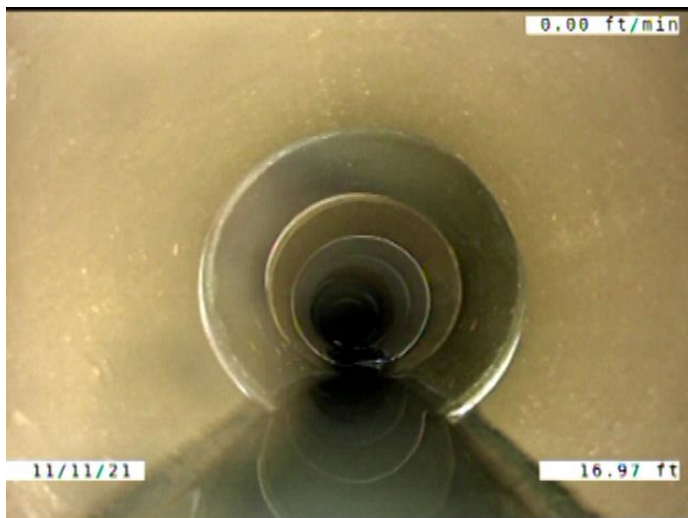
---



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

Distance (ft): **3.2**  
Structural Grade: **3**  
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:

---

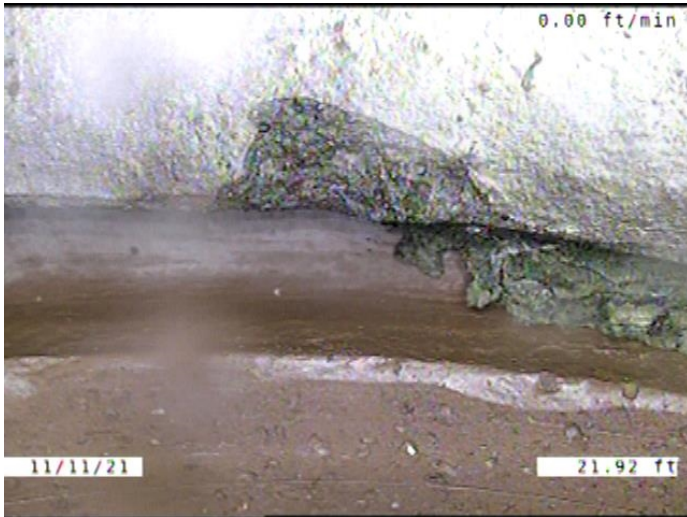


Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **17.0**  
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:

---

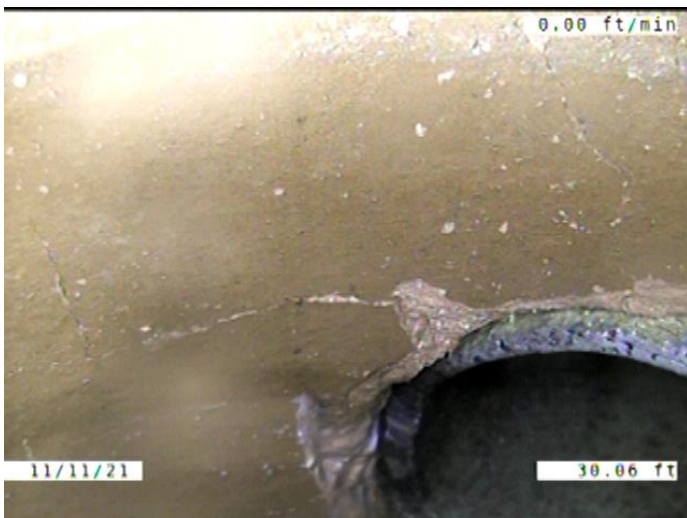




Code: **SZ**  
Description: **Surface Damage Other**

Distance (ft): **21.9**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **A PIECE CHIPPED AWAY FROM THE JOINT**

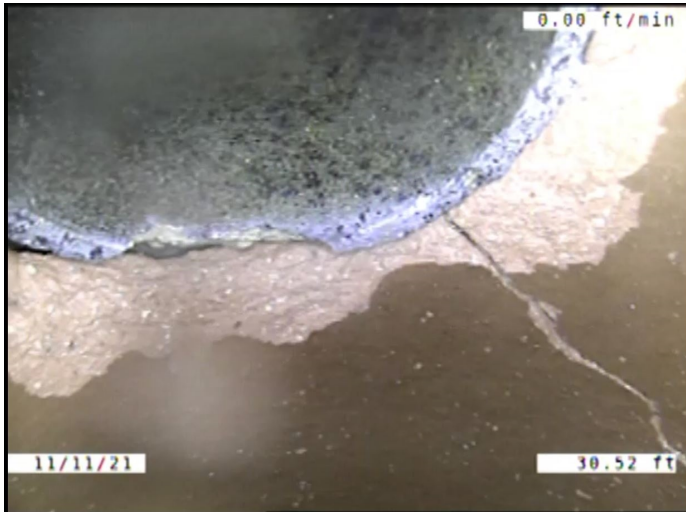
---



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

Distance (ft): **30.1**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **YES**  
Remarks: **Wandering**

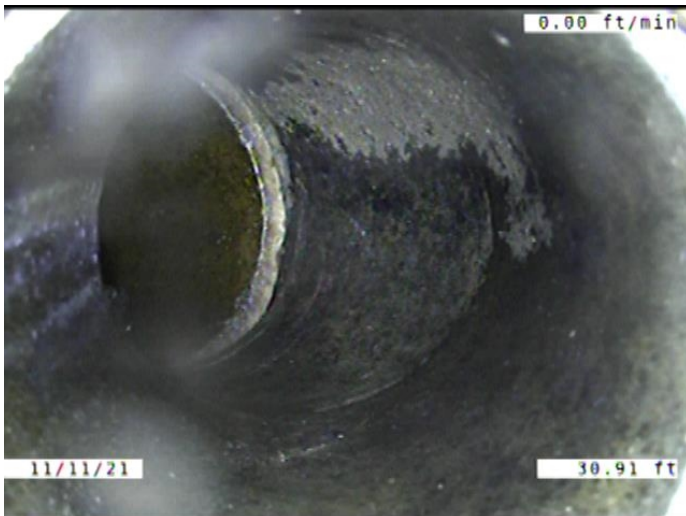
---



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

Distance (ft): **30.5**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **10**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

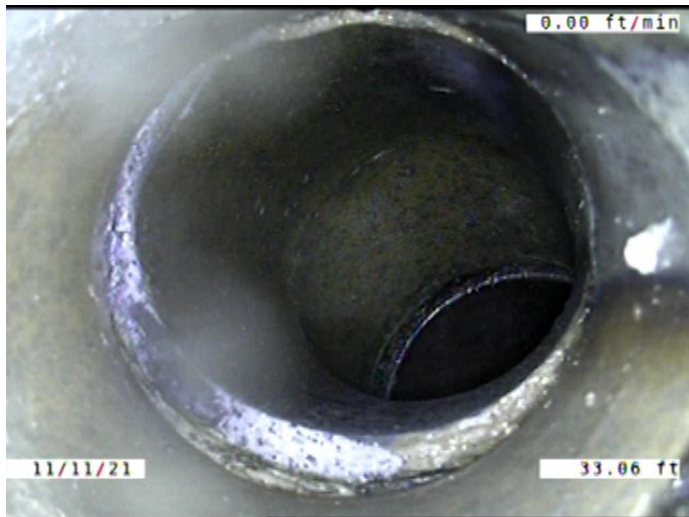
---



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

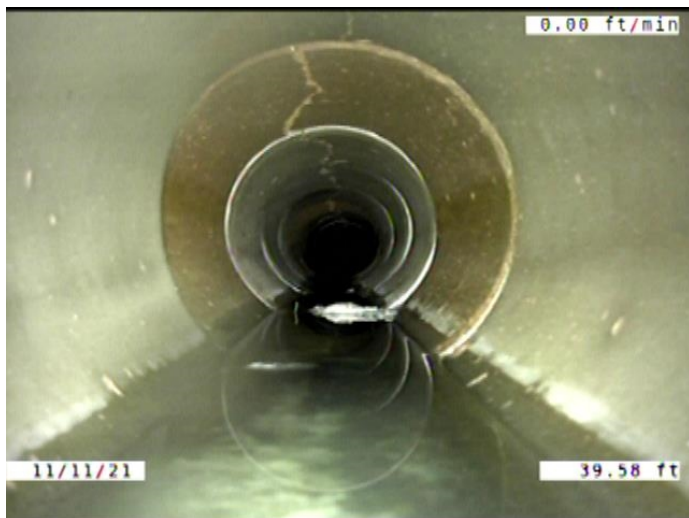
Distance (ft): **30.9**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---



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

Distance (ft): **33.1**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 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: **DSF**  
 Description: **Deposits Settled Fine**

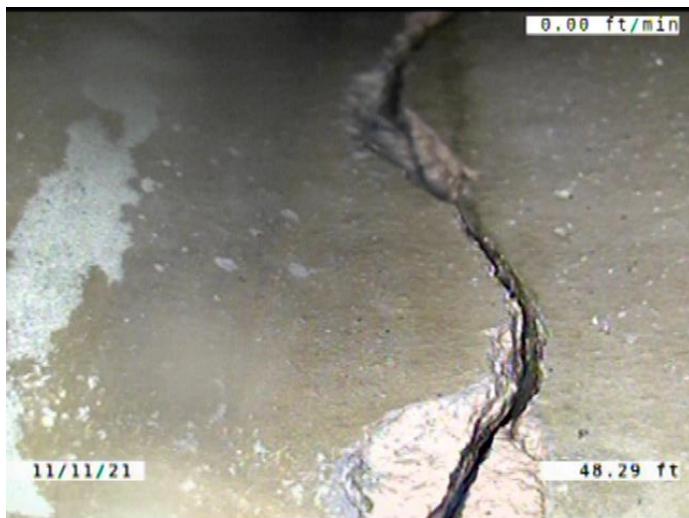
Distance (ft): **39.6**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **5**  
 Clock To: **7**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index: **S02**  
 Within 8" of Joint: **YES**  
 Remarks:





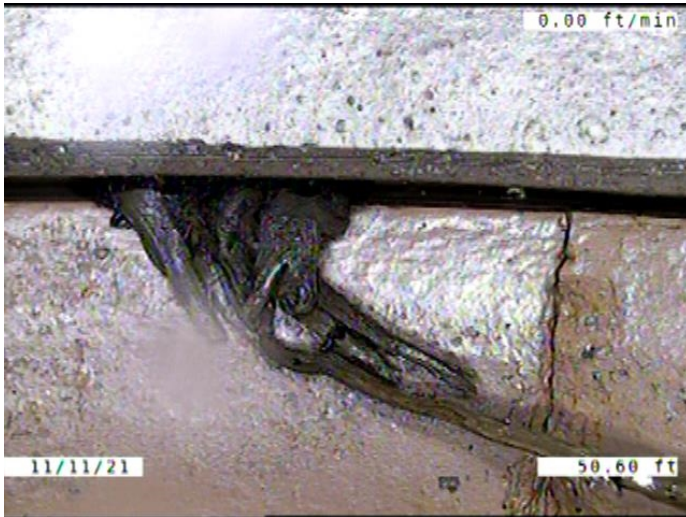
Code: **B**  
Description: **Broken**

Distance (ft): **47.2**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **5**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



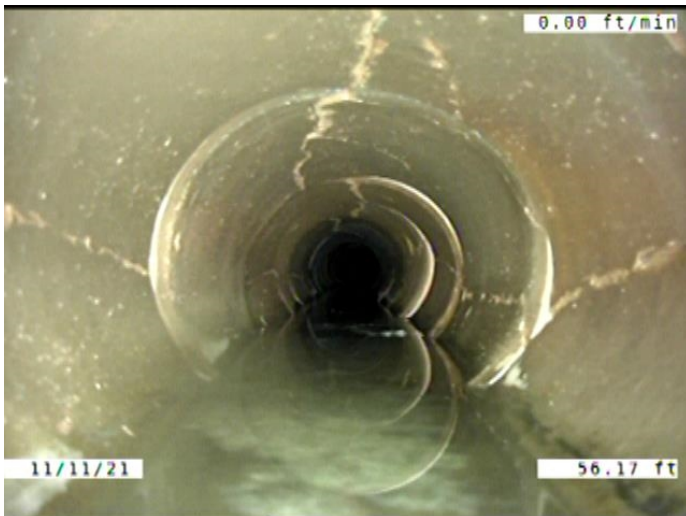
Code: **DR**  
Description: **Deformed Rigid**

Distance (ft): **48.3**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **S03**  
Within 8" of Joint: **NO**  
Remarks:



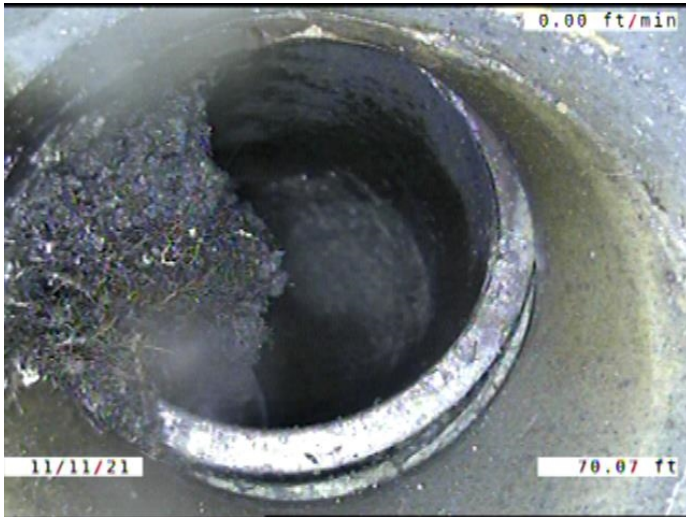
Code: **RFJ**  
 Description: **Roots Fine Joint**

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



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

Distance (ft): **56.2**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **10.000**  
 Continuous Index: **S04**  
 Within 8" of Joint: **NO**  
 Remarks:



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

Distance (ft): **70.1**  
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: **BROKEN. OFFSET. ROOTS GROWING IN THE TAP**

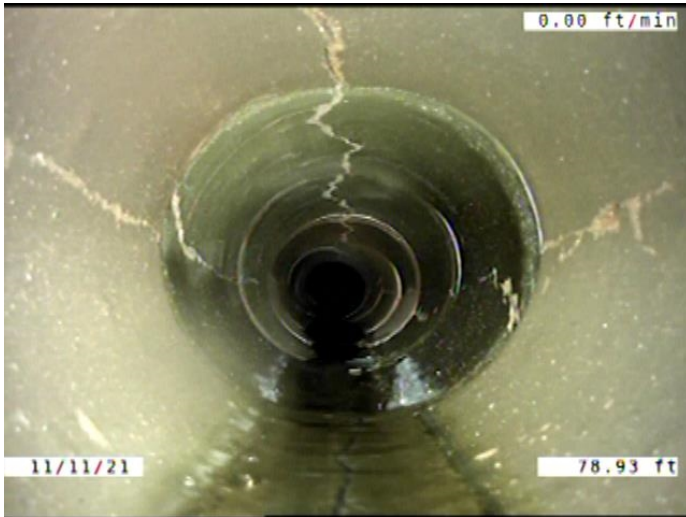
---



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

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

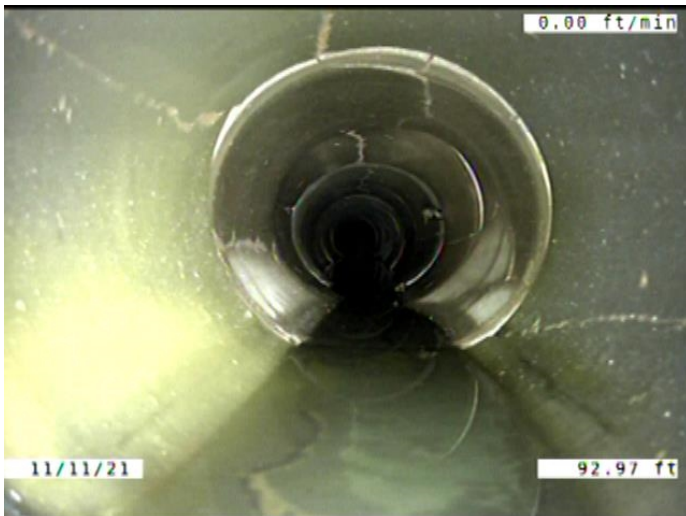
---



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

Distance (ft): **78.9**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index: **F04**  
Within 8" of Joint: **NO**  
Remarks:

---

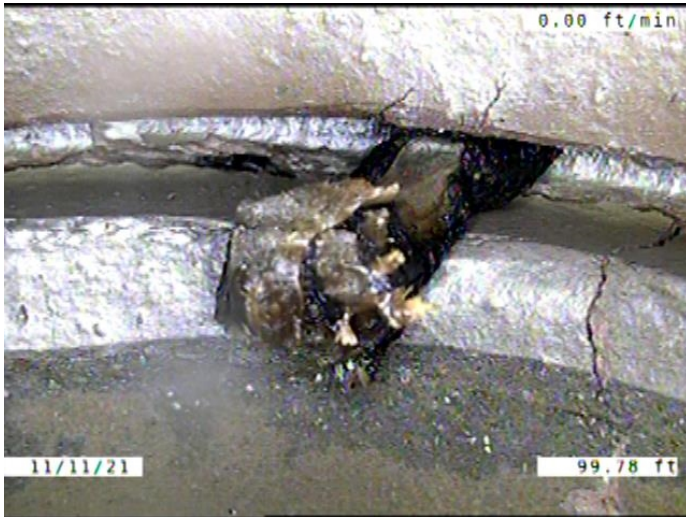


Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **93.0**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index: **S06**  
Within 8" of Joint: **NO**  
Remarks:

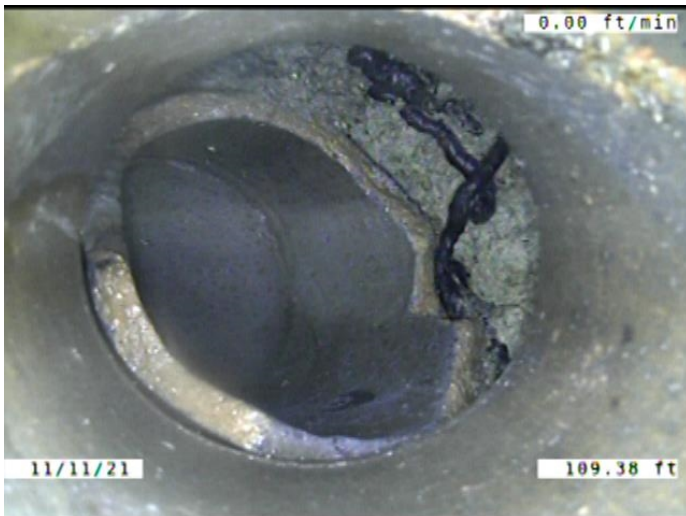
---





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

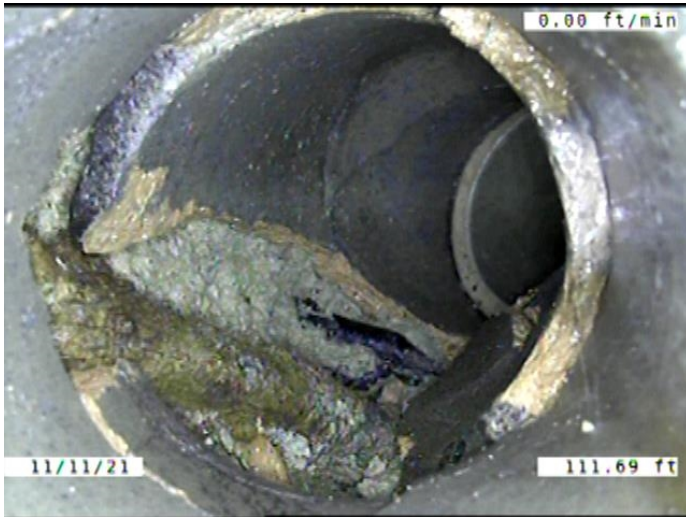
Distance (ft): **99.8**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **2**  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **109.4**  
 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: **OFFSET. SOIL VISIBLE. ROOTS GROWING AROUND THE OFFSET**





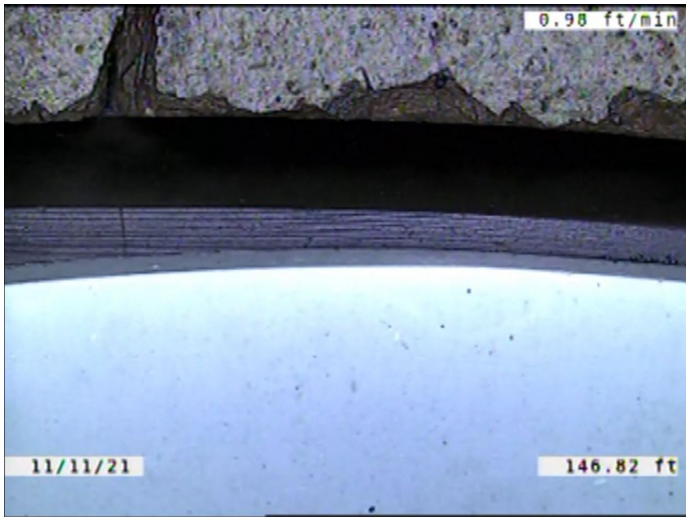
Code:	<b>TFD</b>
Description:	<b>Tap Factory Defective</b>
Distance (ft):	<b>111.7</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>3</b>
Clock Start/From:	<b>2</b>
Clock To:	
1st Value:	<b>4.000</b>
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	<b>BROKEN. TAP PIPE WALL MISSING. SOIL VISIBLE. ROOTS GROWING IN T</b>

---



Code:	<b>DR</b>
Description:	<b>Deformed Rigid</b>
Distance (ft):	<b>113.0</b>
Structural Grade:	<b>4</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	<b>5.000</b>
Continuous Index:	<b>F03</b>
Within 8" of Joint:	<b>NO</b>
Remarks:	

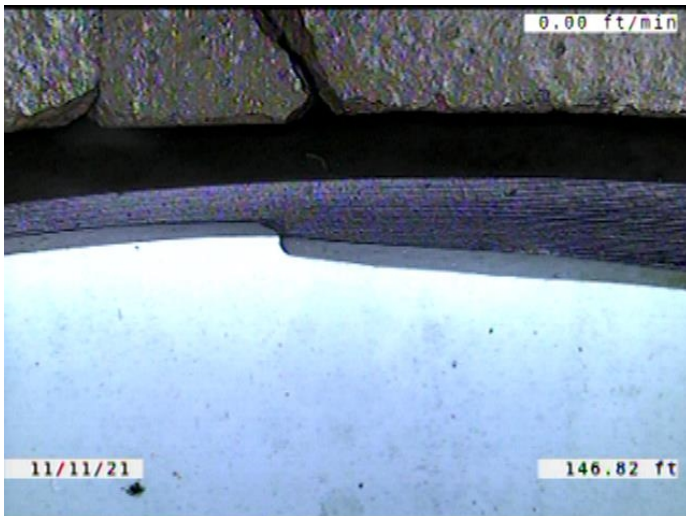
---



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

Distance (ft): **146.8**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F01**  
Within 8" of Joint: **YES**  
Remarks: **Wandering**

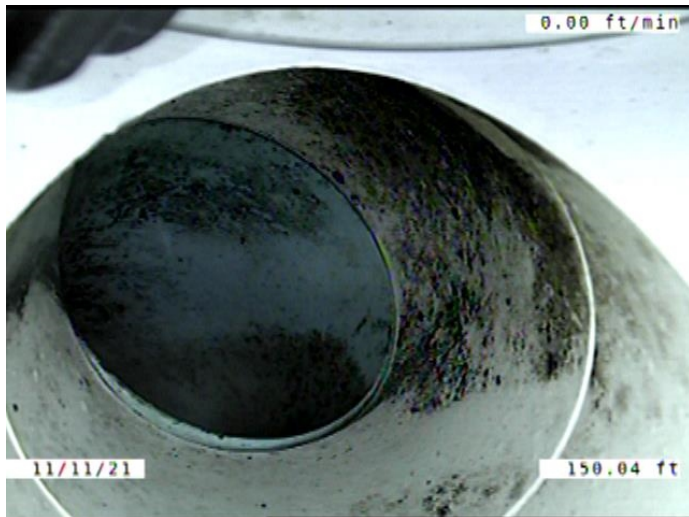
---



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

Distance (ft): **146.8**  
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: **VCP TO PVC**

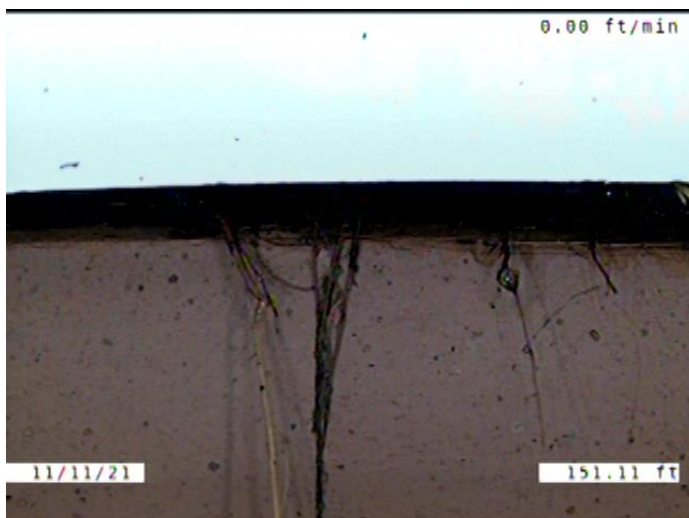
---



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

Distance (ft): **150.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

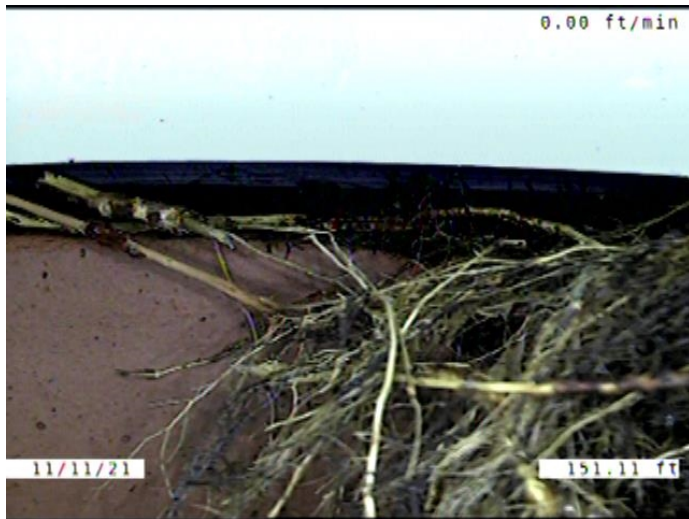
---



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

Distance (ft): **151.1**  
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: **RMJ**  
Description: **Roots Medium Joint**

Distance (ft): **151.1**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **S07**  
Within 8" of Joint: **YES**  
Remarks:

---

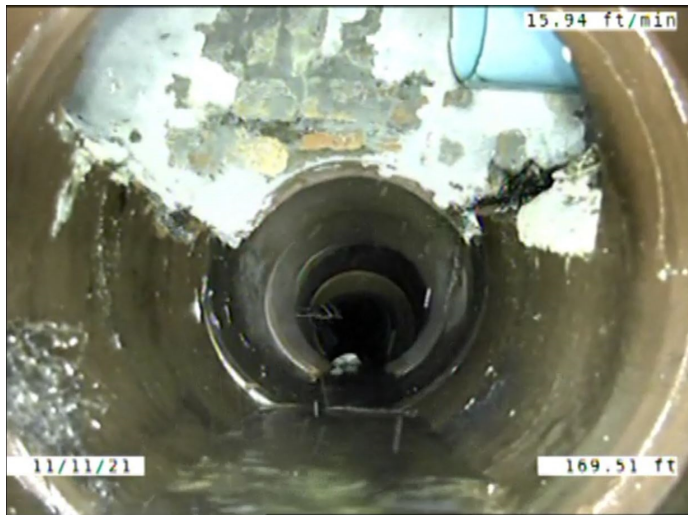


Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **151.1**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S08**  
Within 8" of Joint: **YES**  
Remarks:

---





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

Distance (ft): **169.5**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **F08**  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **169.8**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **10.000**  
 Continuous Index: **F06**  
 Within 8" of Joint: **NO**  
 Remarks:





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

Distance (ft): **169.8**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **F07**  
Within 8" of Joint: **YES**  
Remarks:

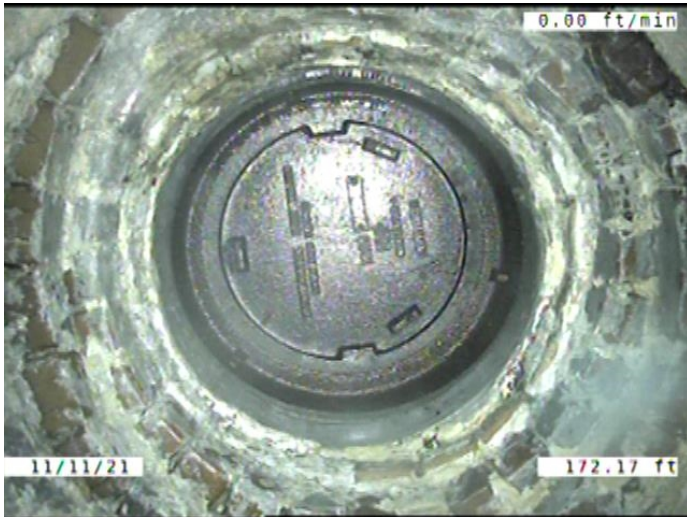
---



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

Distance (ft): **169.8**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **5**  
Clock To: **7**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **F02**  
Within 8" of Joint: **YES**  
Remarks:

---



Code:	<b>AMH</b>
Description:	<b>Manhole</b>
Distance (ft):	<b>172.2</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	<b>M-605-029</b>