

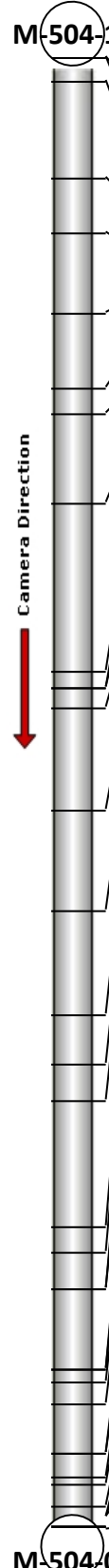
Profile/Photo Observation Report

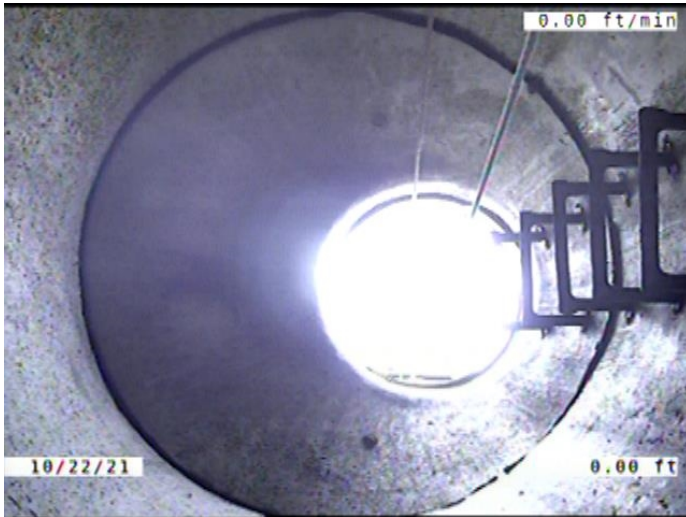


Date:	10/22/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	191.0	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-504-130-087
Customer:	City of Hobart	Clean Date:	08/29/2021	Shape:	C

Street:	West 42nd Avenue	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Alley	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:	Upstream
US MH:	M-504-087	DS MH:	M-504-130
		Total Length Surveyed (ft):	147.3

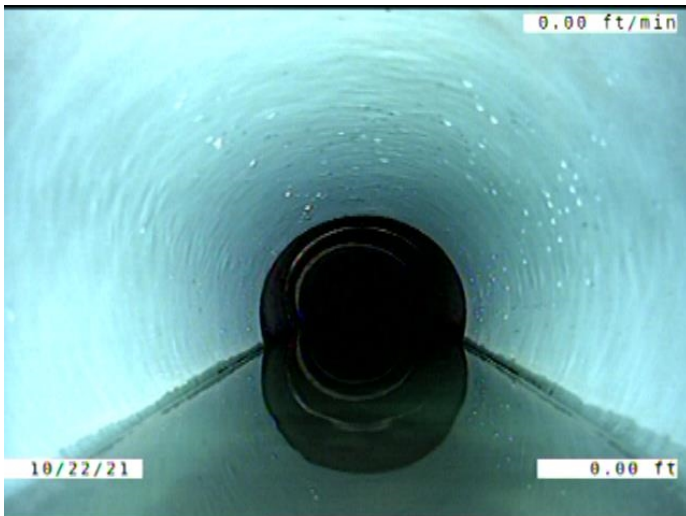
O&M Index:	2.35	O&M Quick:	413A	O&M Rating:	47.00
Structural Index:	3.82	Structural Quick:	4E33	Structural Rating:	145.00
Overall Index:	3.31	Overall Quick:	4E3A	Overall Rating:	192.00

	Position	Code	Observation	Video (sec)	Grade
	M-504-130				
	.0	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	60	NA
	3.4	FM(S01)	Fracture Multiple	148	S 4
	13.1	TBD	Tap Break-in/Hammer Defective	217	M 3
	18.7	DR(S02)	Deformed Rigid	272	S 4
	26.8	TFD	Tap Factory Defective	384	M 3
	34.3	DR(F02)	Deformed Rigid	446	S 4
	36.8	TFD	Tap Factory Defective	469	M 3
	45.7	TBD	Tap Break-in/Hammer Defective	562	M 3
	62.5	RFJ	Roots Fine Joint	661	M 1
	64.2	DR	Deformed Rigid	689	S 4
	64.2	SSS	Surface Damage Surface Spalling	691	S 2
	66.3	JOM	Joint Offset Medium	722	S 3
	76.4	TFC	Tap Factory Capped	814	NA
	86.6	TFD	Tap Factory Defective	883	M 3
	96.9	TBI	Tap Break-in Intruding	984	M 2
	102.0	SZ	Surface Damage Other	1059	NA
	105.6	JAM	Joint Angular Medium	1114	S 3
	118.2	JOMD	Joint Offset Medium Defective	1254	S 3
	120.7	SSS	Surface Damage Surface Spalling	1287	S 2
	124.5	RFJ(S03)	Roots Fine Joint	1324	M 1
	124.5	RFJ(S04)	Roots Fine Joint	1348	M 1
	132.5	RMJ(S05)	Roots Medium Joint	1425	M 3
	132.5	RFJ(F03)	Roots Fine Joint	1435	M 1
	133.8	TFD	Tap Factory Defective	1459	M 3
	135.9	TFC	Tap Factory Capped	1492	NA
	140.9	RMJ(S06)	Roots Medium Joint	1527	M 3
	140.9	RFJ(F04)	Roots Fine Joint	1539	M 1
	143.3	RMC	Roots Medium Connection	1572	M 3
	144.0	TBI	Tap Break-in Intruding	1594	M 2
	146.2	RBJ	Roots Ball Joint	1635	M 4
	147.3	FM(F01)	Fracture Multiple	1685	S 4
	147.3	RMJ(F05)	Roots Medium Joint	1701	M 3
	147.3	RMJ(F06)	Roots Medium Joint	1709	M 3
	147.3	MSA	Miscellaneous Survey Abandoned	1720	NA
	M-504-087				



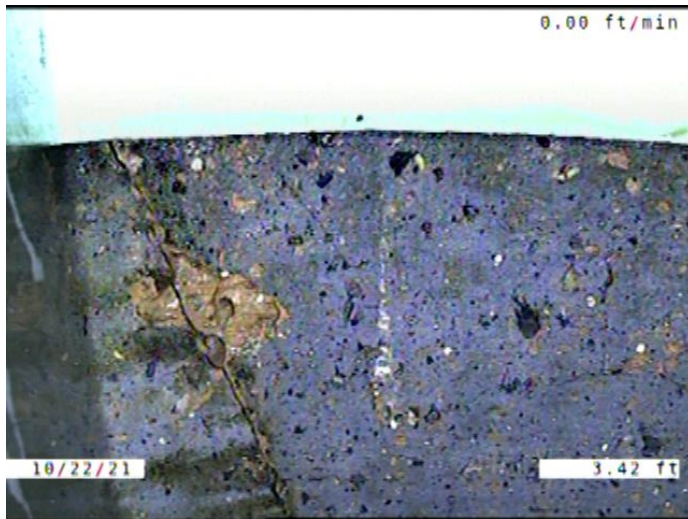
Code: **AMH**
 Description: **Manhole**

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-504-130**



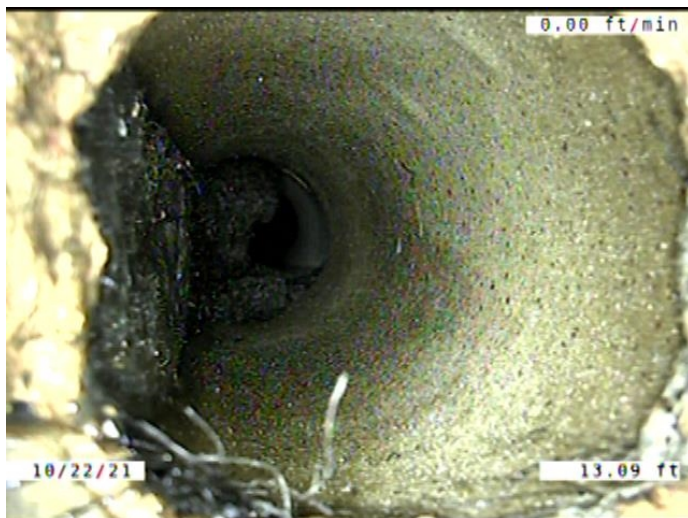
Code: **MWL**
 Description: **Miscellaneous Water Level**

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



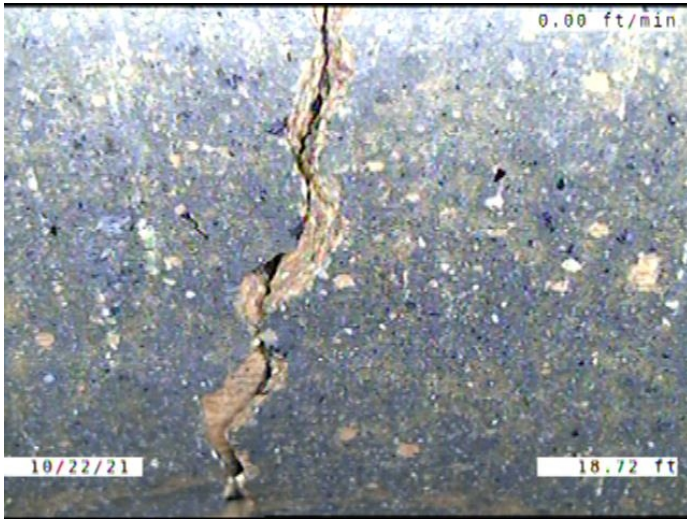
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **3.4**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S01**
 Within 8" of Joint: **YES**
 Remarks:



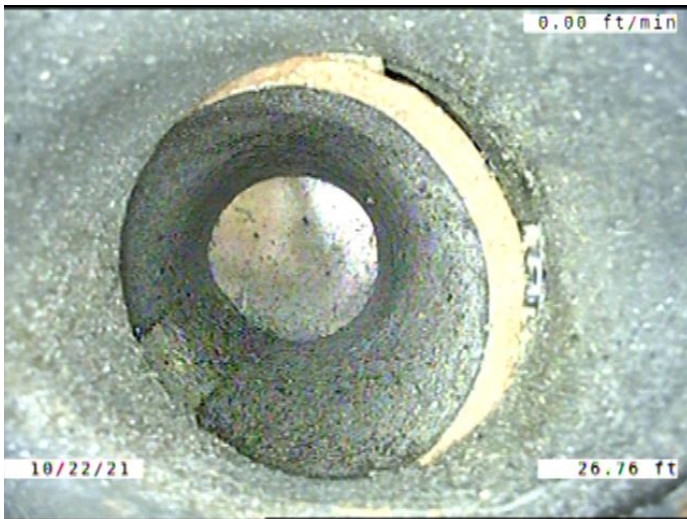
Code: **TBD**
 Description: **Tap Break-in/Hammer Defective**

Distance (ft): **13.1**
 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: **CONSTANTLY RUNNING WATER**



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

Distance (ft): **18.7**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S02**
 Within 8" of Joint: **NO**
 Remarks:



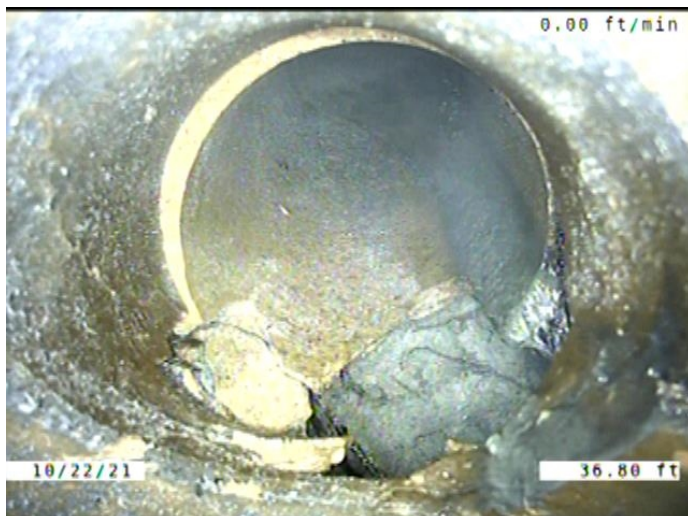
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **26.8**
 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: **CAPPED. LARGE OFFSET FIRST JOINT BACK. SOIL VISIBLE**



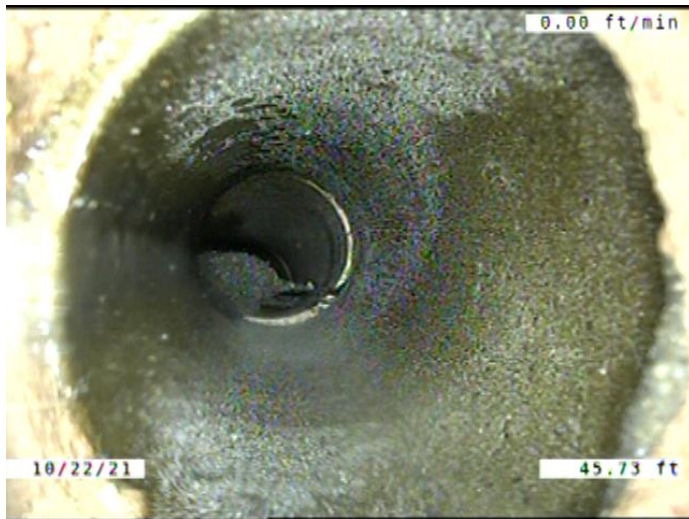
Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **34.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F02**
 Within 8" of Joint: **NO**
 Remarks:



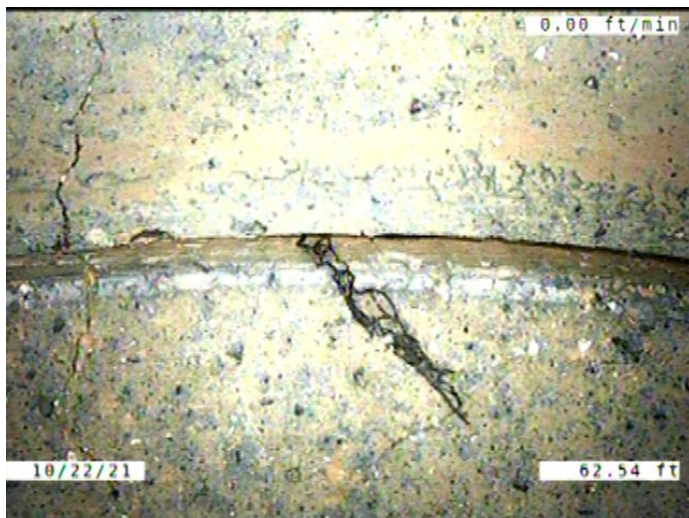
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **36.8**
 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: **TAP BROKEN. SOIL VISIBLE. WATER RUNNING OUTSIDE OF THE MAIN**



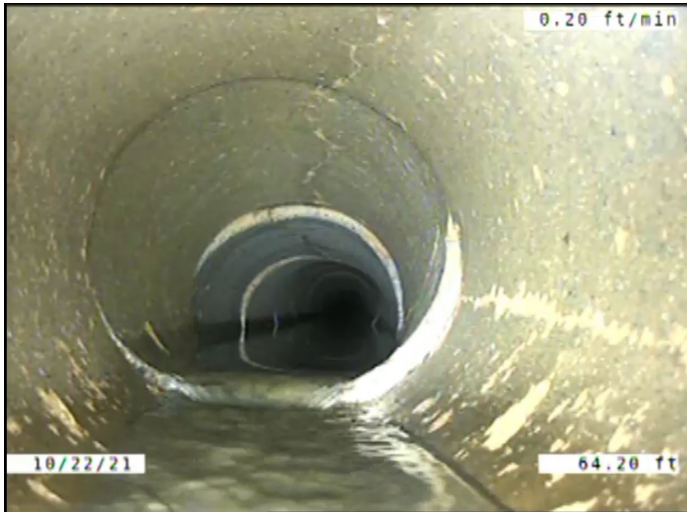
Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **45.7**
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: **Defective**



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

Distance (ft): **62.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **12**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



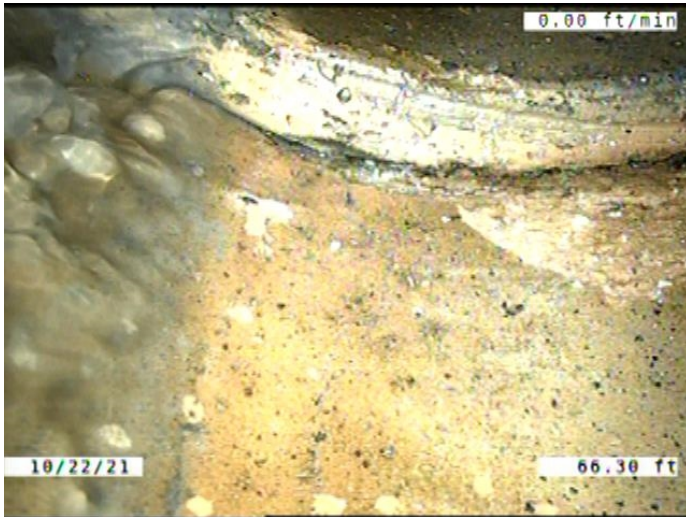
Code: **DR**
Description: **Deformed Rigid**

Distance (ft): **64.2**
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: **SSS**
Description: **Surface Damage Surface Spalling**

Distance (ft): **64.2**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **4**
Clock To: **8**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



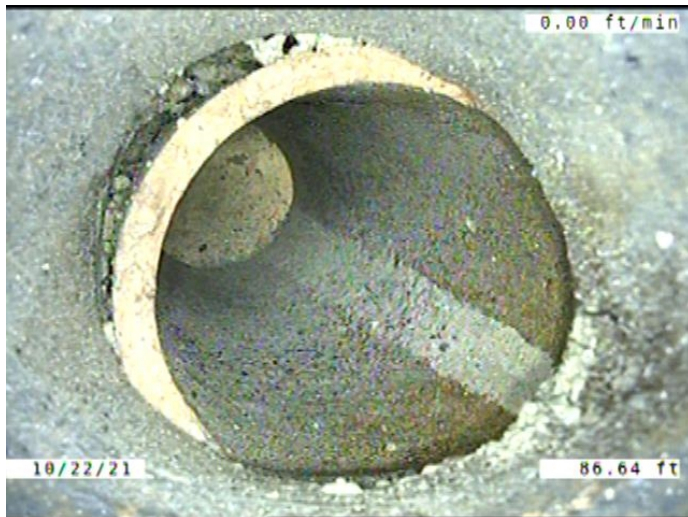
Code: **JOM**
 Description: **Joint Offset Medium**

Distance (ft): **66.3**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



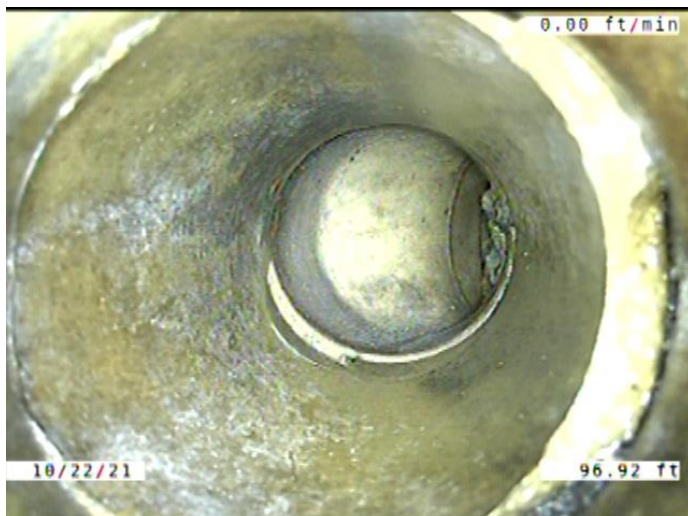
Code: **TFC**
 Description: **Tap Factory Capped**

Distance (ft): **76.4**
 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:



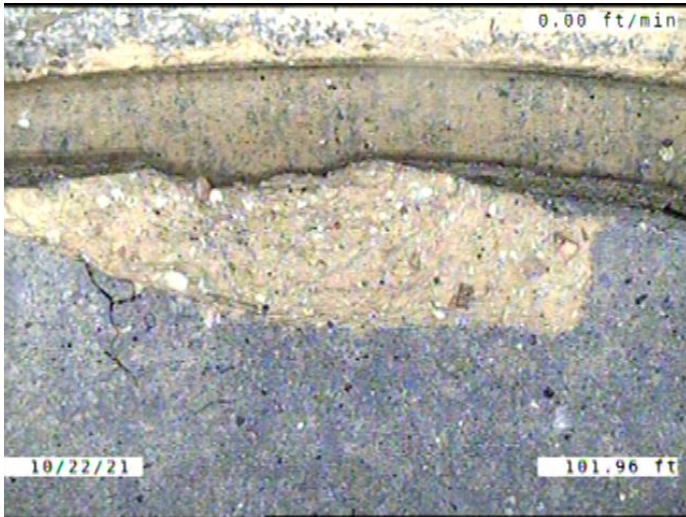
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **86.6**
 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: **CAPPED. LARGE OFFSET FIRST JOINT BACK. SOIL VISIBLE**



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

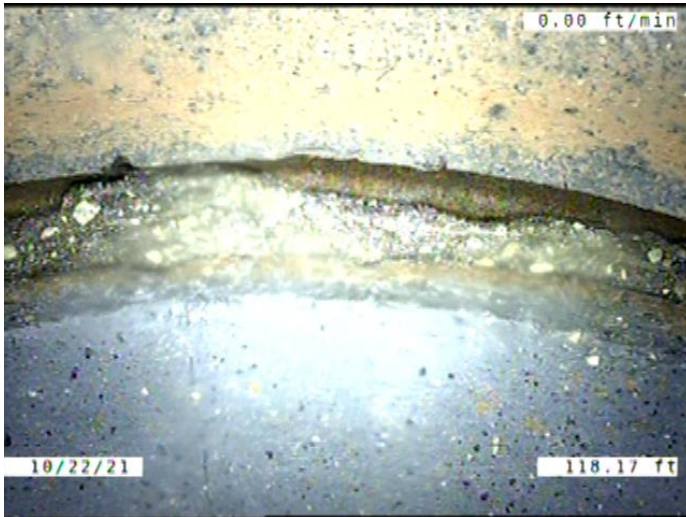
Distance (ft): **96.9**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code:	SZ
Description:	Surface Damage Other
Distance (ft):	102.0
Structural Grade:	0
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:	A PIECE CHIPPED AWAY FROM THE JOINT

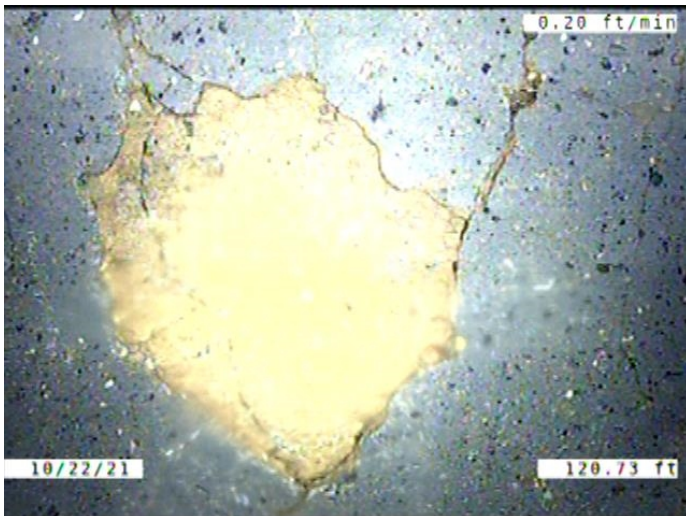


Code:	JAM
Description:	Joint Angular Medium
Distance (ft):	105.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	SOIL VISIBLE



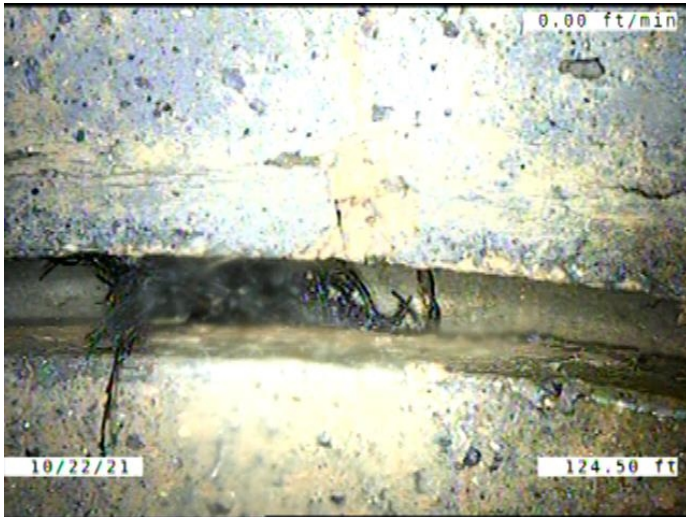
Code: **JOMD**
Description: **Joint Offset Medium Defective**

Distance (ft): **118.2**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



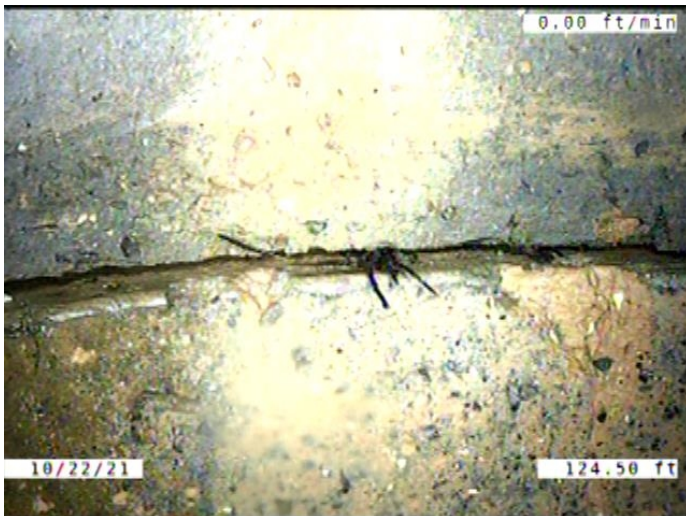
Code: **SSS**
Description: **Surface Damage Surface Spalling**

Distance (ft): **120.7**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **1**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



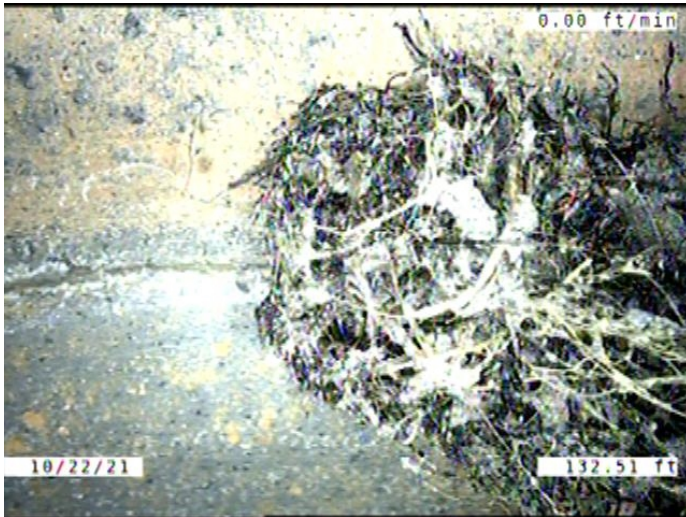
Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **124.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **3**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S03**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **124.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **9**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S04**
Within 8" of Joint: **YES**
Remarks:



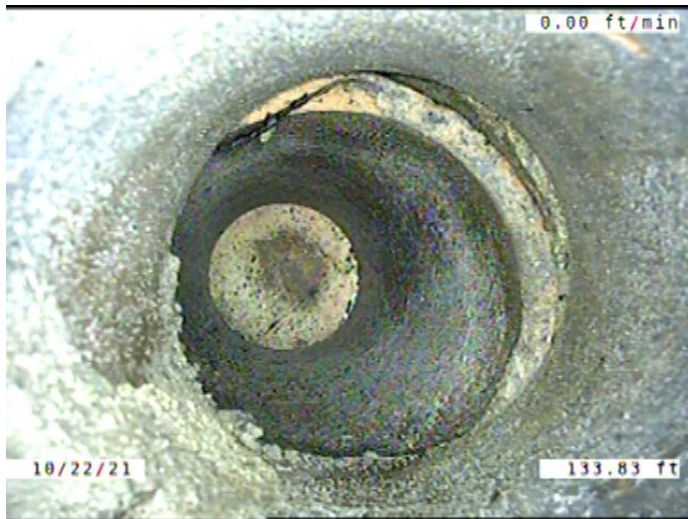
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **132.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S05**
 Within 8" of Joint: **YES**
 Remarks:



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

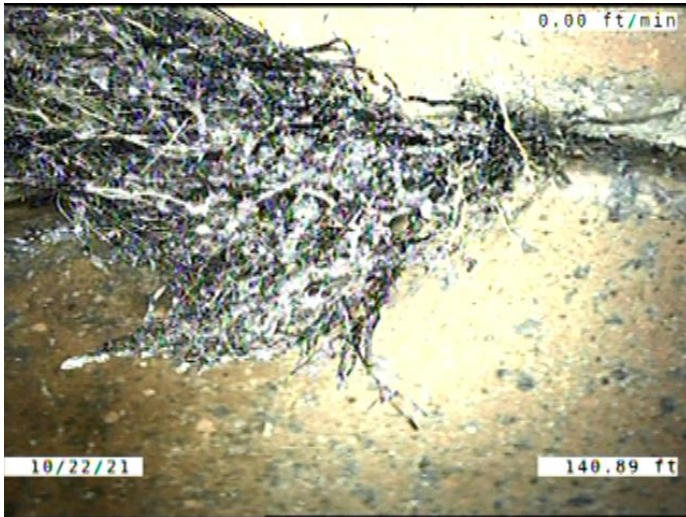
Distance (ft): **132.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **3**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F03**
 Within 8" of Joint: **YES**
 Remarks:



Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	133.8
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:	CAPPED. LARGE OFFSET FIRST JOINT BACK. SOIL VISIBLE

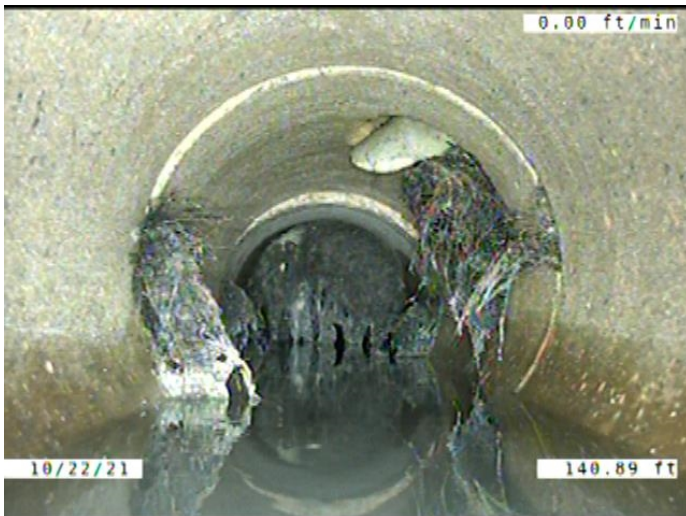


Code:	TFC
Description:	Tap Factory Capped
Distance (ft):	135.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	ROOTS GROWING AROUND THE CAP AND FROM THE JOINT



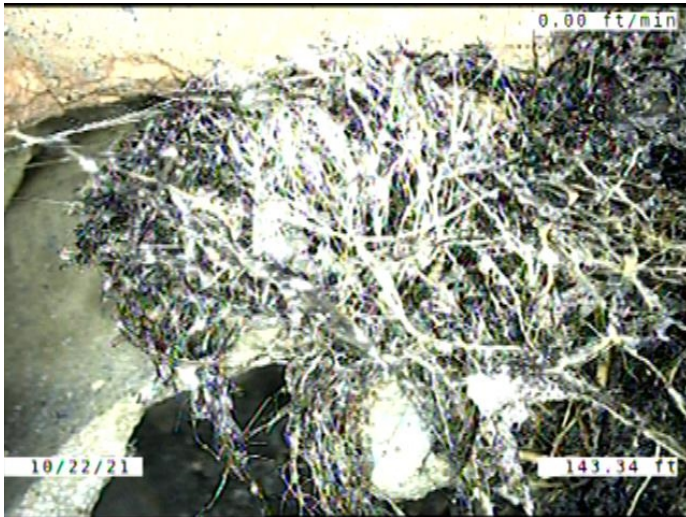
Code: **RMJ**
Description: **Roots Medium Joint**

Distance (ft): **140.9**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **8**
Clock To: **10**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **S06**
Within 8" of Joint: **YES**
Remarks:

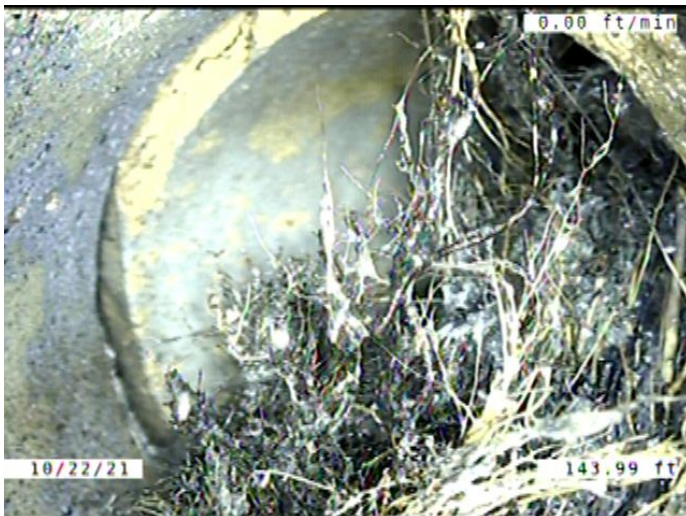


Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **140.9**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **9**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F04**
Within 8" of Joint: **YES**
Remarks:



Code:	RMC
Description:	Roots Medium Connection
Distance (ft):	143.3
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	TBI
Description:	Tap Break-in Intruding
Distance (ft):	144.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: **RBJ**
 Description: **Roots Ball Joint**

Distance (ft): **146.2**
 Structural Grade: **0**
 O&M Grade: **4**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **85.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **147.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F01**
 Within 8" of Joint: **YES**
 Remarks:



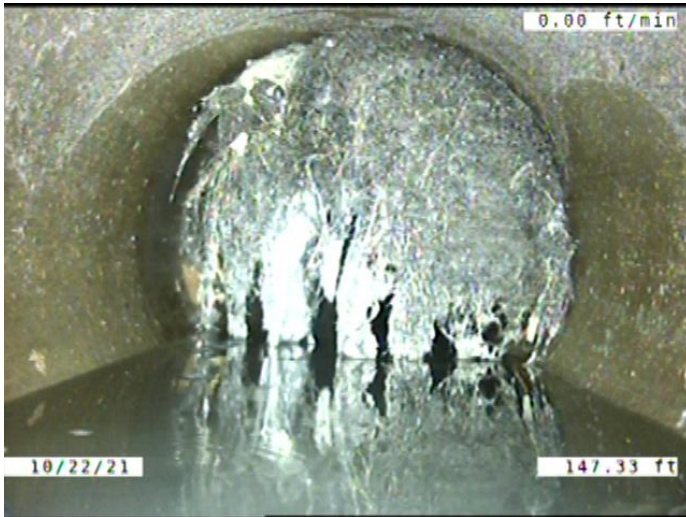
Code: **RMJ**
Description: **Roots Medium Joint**

Distance (ft): **147.3**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **1**
Clock To: **3**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F05**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **147.3**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **8**
Clock To: **10**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F06**
Within 8" of Joint: **YES**
Remarks:



Code:	MSA
Description:	Miscellaneous Survey Abandoned
Distance (ft):	147.3
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:	CAMERA CANT MAKE IT PAST ROOTS