## **Profile/Photo Observation Report**

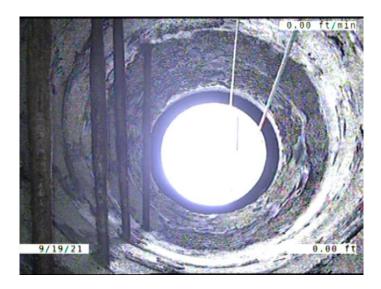
					RUBUIICS
Date:	09/19/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	187.5	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-503-021-020
Customer:	City of Hobart	Clean Date	e: 09/05/2021	Shape:	С
Street:	North Virginia Stre	et	Flow Control:	Not Controlled	ł
City:	Hobart, IN		Year Renewed:		
Location:	Local rural streets	with light traffi	c, t Tape/Media #:		
Purpose:	Routine Assessme	nt	Dia/Height:	10"	
Use:	Sanitary Sewage P	ipe	Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details	:		Direction of Surv	ey: Downstream	
US MH:	M-503-020	DS MH:	M-503-021	Total Length Surveyed (ft	): <b>187.5</b>
0&M Index:	1.71	O&M Quick		GO&M Rating:	116.00
structural Index:	3.21	Structural C	Quick: 534	B Structural Rating	125.00
Overall Index:	2.25	Overall Qui	ck: 534I	B Overall Rating:	241.00

	Position	Code	Observation	Video (sec)	Grade
M(503-)0	20				
	.0	AMH	Manhole	1	NA
N	.0	MWL	Miscellaneous Water Level	69	NA
	1.1	FM(S01)	Fracture Multiple	136	S 4
	1.1	DAE	Deposits Attached Encrustation	180	M 2
	1.1	DAE	Deposits Attached Encrustation	194	M 2
	1.1	BSV	Broken Soil Visible	253	S 5
	2.5	SMW	Surface Damage Missing Wall	339	S 5
	4.3	FM(F01)	Fracture Multiple	372	S 4
	8.1	DSF(S03)	Deposits Settled Fine	401	M 2
5	25.1	SSS	Surface Damage Surface Spalling	484	S 2
Direction	31.0	FM(S04)	Fracture Multiple	558	S 4
i i	44.3	TFC	Tap Factory Capped	628	NA
Camera	46.3	TFC	Tap Factory Capped	659	NA
Car /	47.5	RFJ	Roots Fine Joint	684	M 1
	49.6	RFJ	Roots Fine Joint	711	M 1
	51.5	RFJ	Roots Fine Joint	736	M 1
	53.6	MMC	Miscellaneous Material Change	792	NA
	53.6	JOM	Joint Offset Medium	809	S 3
	53.6	FM(F04)	Fracture Multiple	823	S 4

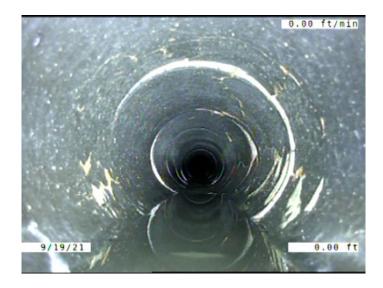
RedZone

53.6	MWLS(S05)	Miscellaneous Water Level Sag	832	S 2
\\\_54.9	TF	Tap Factory	852	NA
60.0	MMC	Miscellaneous Material Change	910	NA
61.9	RFJ	Roots Fine Joint	957	M 1
61.9	FM(S06)	Fracture Multiple	976	S 4
\\\65.6	DAE	Deposits Attached Encrustation	1014	M 2
71.4	MWLS(F05)	Miscellaneous Water Level Sag	1086	S 2
76.3	RFB	Roots Fine Barrel	1154	M 2
77.2	TFC	Tap Factory Capped	1174	NA
78.4	BVV	Broken Void Visible	1198	S 5
79.1	TFC	Tap Factory Capped	1219	NA
80.6	SSS	Surface Damage Surface Spalling	1253	S 2
81.0	TBI	Tap Break-in Intruding	1271	M 2
85.7	SSS	Surface Damage Surface Spalling	1331	S 2
85.8	TBI	Tap Break-in Intruding	1340	M 2
88.3	FM(F06)	Fracture Multiple	1370	S 4
92.6	RFJ	Roots Fine Joint	1406	M 1
94.2	JOM	Joint Offset Medium	1437	S 3
94.6	RFJ(S08)	Roots Fine Joint	1483	M 1
94.6	CM	Crack Multiple	1520	S 3
99.3	SSS	Surface Damage Surface Spalling	1564	S 2
103.1	MWL	Miscellaneous Water Level	1612	NA
106.0	TFC	Tap Factory Capped	1657	NA
107.5	TFC	Tap Factory Capped	1690	NA
118.0	FM(S09)	Fracture Multiple	1793	S 4
126.4	ТВ	Tap Break-in/Hammer	1854	NA
128.2	TFD	Tap Factory Defective	1888	M 3
130.4	TFD	Tap Factory Defective	1915	M 3
133.0	FM(F09)	Fracture Multiple	1952	S 4
141.2	SSS	Surface Damage Surface Spalling	1998	S 2
160.0	MWLS(S10)	Miscellaneous Water Level Sag	2092	S 2
/ 162.4	FL	Fracture Longitudinal	2129	S 3
/ 162.7	SSS	Surface Damage Surface Spalling	2149	S 2
163.4	TFC	Tap Factory Capped	2164	NA
165.4	TFD	Tap Factory Defective	2201	M 3
172.6	FM(S11)	Fracture Multiple	2295	S 4
186.0	RFJ(F08)	Roots Fine Joint	2385	M 1
186.0	MWLS(F10)	Miscellaneous Water Level Sag	2393	S 2
// 186.0	FM(F11)	Fracture Multiple	2403	S 4
/ 187.0	DSF(F03)	Deposits Settled Fine	2421	M 2
/ 187.5	AMH	Manhole	2488	NA

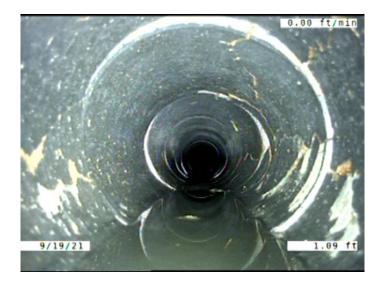




Code: Description:	AMH Manhole
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-503-020



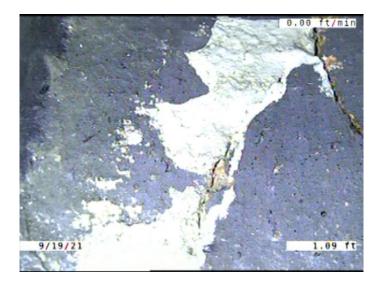
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



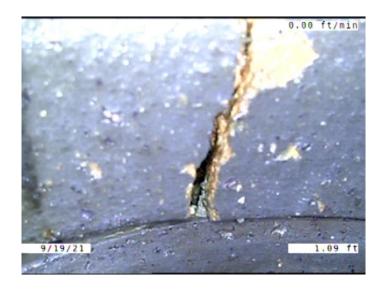
Code:	FM
Description:	Fracture Multiple
Distance (ft):	1.1
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S01
Within 8" of Joint:	YES
Remarks:	



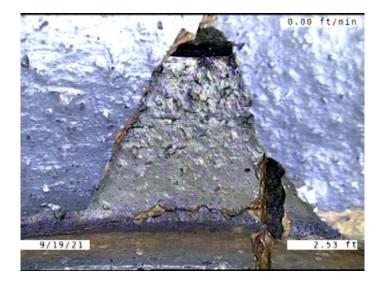
Distance (ft): <b>1.1</b>	Code: Description:	DAE Deposits Attached Encrustation
	Distance (ft):	1.1
Structural Grade: 0	Structural Grade:	0
O&M Grade: 2	O&M Grade:	2
Clock Start/From: 7	Clock Start/From:	7
Clock To: 9	Clock To:	9
1st Value:	1st Value:	
2nd Value:	2nd Value:	
Value Percent: 5.000	Value Percent:	5.000
Continuous Index:	Continuous Index:	
Within 8" of Joint: YES	Within 8" of Joint:	YES
Remarks:	Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	1.1
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	BSV Broken Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	1.1 5 0 8 9
Remarks:	-



Code: Description:	SMW Surface Damage Missing Wall
Distance (ft):	2.5
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	2
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	SOIL VISIBLE



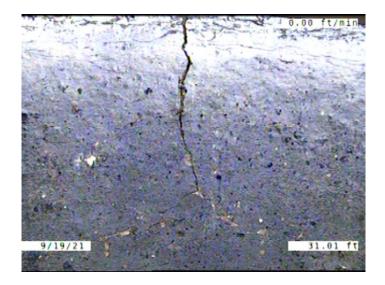
Description: Fra	acture Multiple
Distance (ft):4.3Structural Grade:4O&M Grade:0Clock Start/From:8Clock To:41st Value:42nd Value:4Value Percent:5Continuous Index:F0Within 8" of Joint:YERemarks:5	1



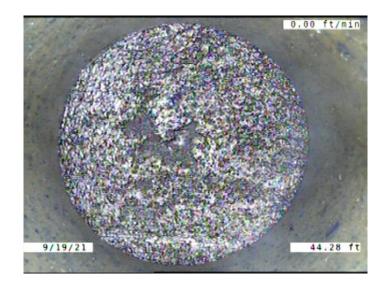
Code: Description:	DSF Deposits Settled Fine
Distance (ft):	8.1
Structural Grade: O&M Grade:	0 2
Clock Start/From:	5
Clock To:	7
1st Value: 2nd Value:	
Value Percent:	5.000
Continuous Index:	S03
Within 8" of Joint:	YES
Remarks:	



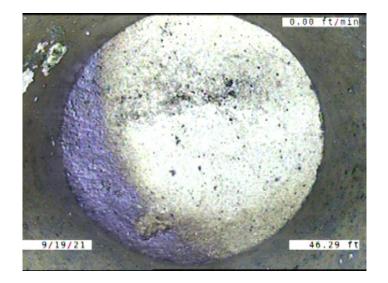
Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	25.1 2 0 1 2
Remarks:	



Code:	FM
Description:	Fracture Multiple
Distance (ft):	31.0
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S04
Within 8" of Joint:	YES
Remarks:	



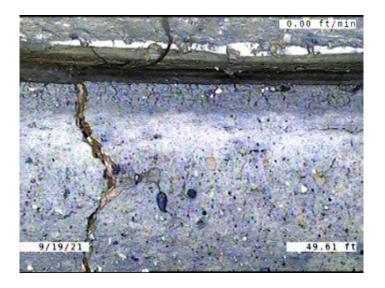
Code: Description:	TFC Tap Factory Capped
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	44.3 0 0 1 4.000
Within 8" of Joint: Remarks:	YES



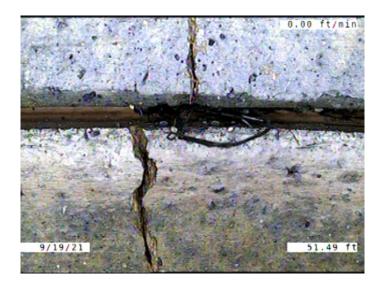
Code:	TFC
Description:	Tap Factory Capped
Distance (ft):	46.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	RFJ Roots Fine Joint
Distance (ft):	47.5
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	12
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	RFJ
Description:	<b>Roots Fine Joint</b>
Distance (ft):	49.6
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:	



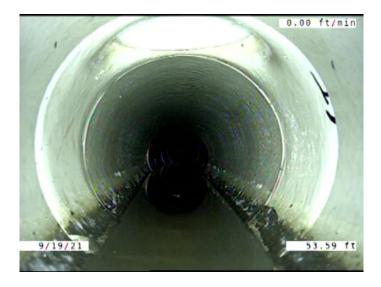
Code: Description:	RFJ Roots Fine Joint
Distance (ft):	51.5
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	12
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



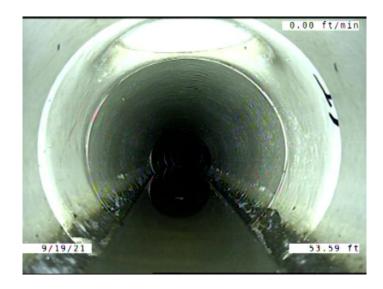
MMC Miscellaneous Material Change
53.6
0
0
NO
VCP TO PVC



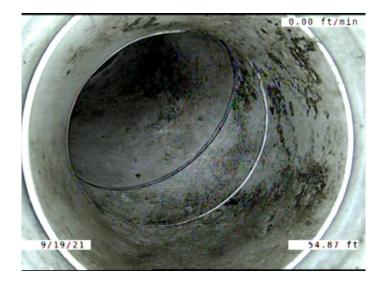
Code: Description:	JOM Joint Offset Medium
Distance (ft):	53.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



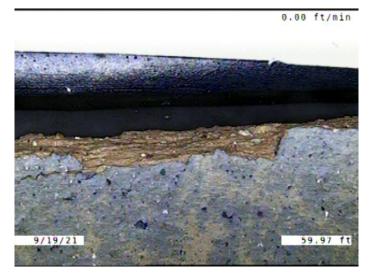
Code:	FM
Description:	Fracture Multiple
Distance (ft):	53.6
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F04
Within 8" of Joint:	YES
Remarks:	



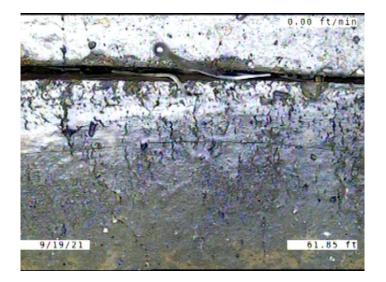
MWLS Miscellaneous Water Level Sag
53.6
2
0
10.000
S05
NO



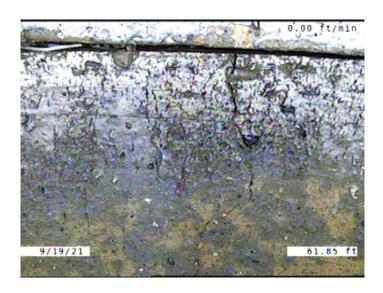
Code:	TF
Description:	Tap Factory
Distance (ft):	54.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	12
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



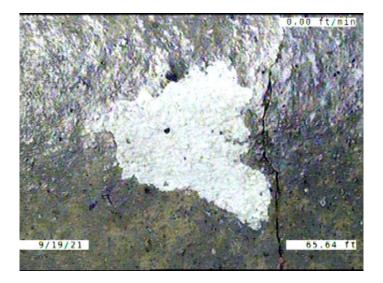
Code:	ММС
Description:	Miscellaneous Material Change
Distance (ft):	60.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	ΡVC ΤΟ VCP



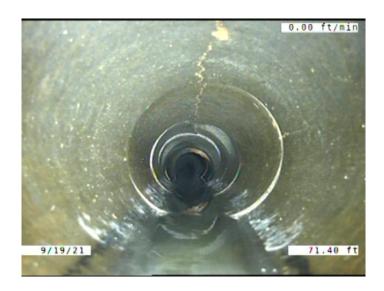
Code:	RFJ
Description:	<b>Roots Fine Joint</b>
Distance (ft):	61.9
	-
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	11
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



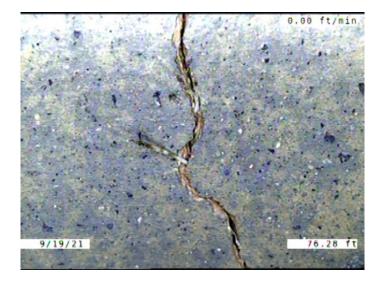
Code: Description:	FM Fracture Multiple
Distance (ft):	61.9
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S06
Within 8" of Joint:	YES
Remarks:	



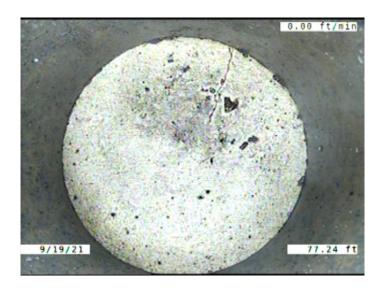
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	65.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	71.4
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F05
Within 8" of Joint:	NO
Remarks:	



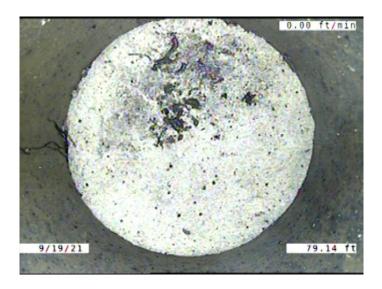
Code:	RFB
Description:	<b>Roots Fine Barrel</b>
Distance (ft):	76.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	12
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	TFC Tap Factory Capped
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	77.2 0 0 1 4.000 YES
nemarks.	



Code: Description:	BVV Broken Void Visible
Distance (ft):	78.4
Structural Grade:	5
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: Description:	TFC Tap Factory Capped
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	79.1 0 0 10 4.000
Continuous Index: Within 8" of Joint: Remarks:	YES



Code: SSS Description: Surface Damage Surface Spalling Distance (ft): 80.6 Structural Grade: 2 O&M Grade: 0 Clock Start/From: 1 3 Clock To: 1st Value: 2nd Value:

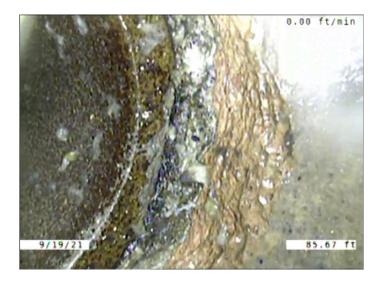
NO

0.00 ft/min	Code: Description:	TBI Tap Break-in Intruding
	Distance (ft):	81.0
	Structural Grade:	0
	O&M Grade:	2
	Clock Start/From:	1
	Clock To:	
	1st Value:	4.000
	2nd Value:	1.000
	Value Percent:	
9/19/21 80.99 ft	Continuous Index:	
9/19/21 80.99 ft	Within 8" of Joint:	NO
	Remarks:	

Value Percent: Continuous Index:

Remarks:

Within 8" of Joint:



Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft):	85.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	10
Clock To:	12
1st Value:	
2nd Value:	

YES

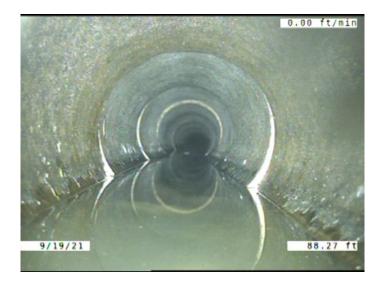
Value Percent: Continuous Index:

Remarks:

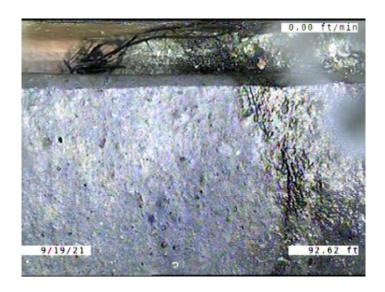
Within 8" of Joint:



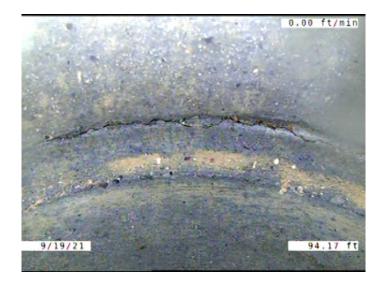
Code: Description:	TBI Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	85.8 0 2 11 4.000 1.000
Remarks:	



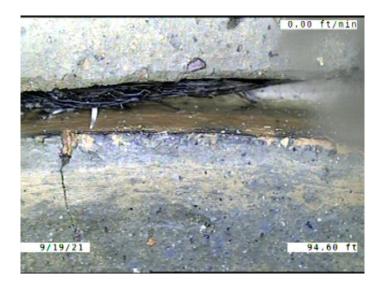
Code: Description:	FM Fracture Multiple
Distance (ft):	88.3
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F06
Within 8" of Joint:	YES
Remarks:	



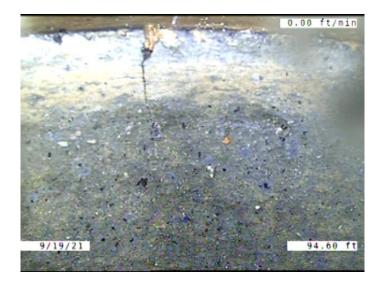
Code: Description:	RFJ Roots Fine Joint
Distance (ft):	92.6
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



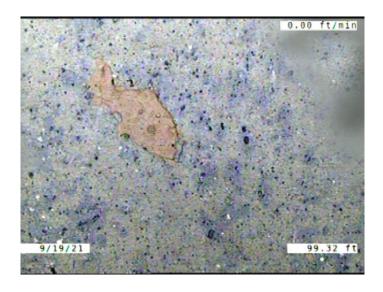
Code: Description:	JOM Joint Offset Medium
Distance (ft):	94.2
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



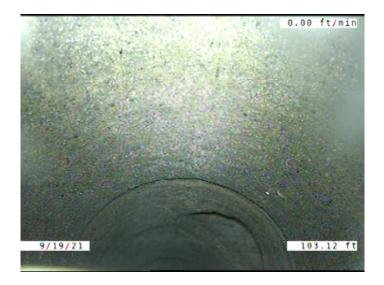
Code: Description:	RFJ Roots Fine Joint
Distance (ft):	94.6
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S08
Within 8" of Joint:	YES
Remarks:	



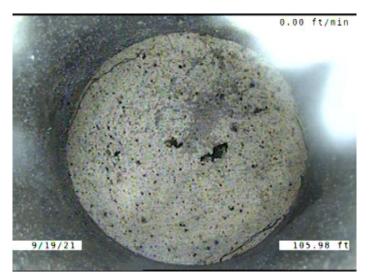
Code: Description:	CM Crack Multiple
Distance (ft):	94.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



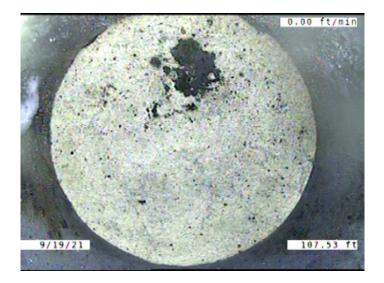
Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	99.3 2 0 12
Continuous Index: Within 8" of Joint: Remarks:	ΝΟ



Code:	MWL
Description:	Miscellaneous Water Level
Distance (ft):	103.1
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:	



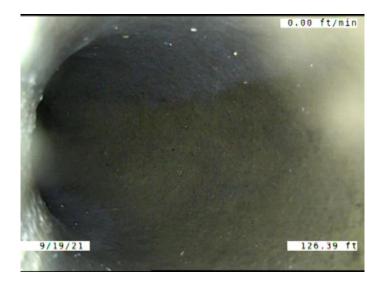
Code: Description:	TFC Tap Factory Capped
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	106.0 0 1 4.000 YES



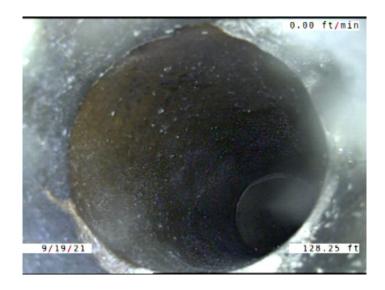
Code:	TFC
Description:	Tap Factory Capped
Distance (ft):	107.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



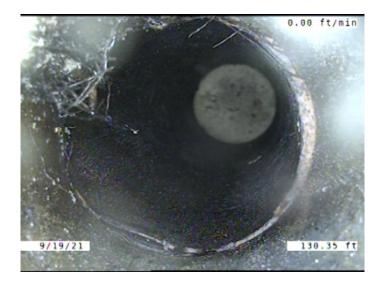
Code:	FM
Description:	Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	118.0 4 0 8 4 3 509 YES



Code: Description:	TB Tap Break-in/Hammer
Distance (ft):	126.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	12
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):	128.2
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To: 1st Value: 2nd Value: Value Percent:	4.000
Continuous Index: Within 8" of Joint: Remarks:	YES Defective



Code: Description:	TFD Tap Factory Defective
Distance (ft):	130.4
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:	CAPPED



Code:	FM
Description:	Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	133.0 4 0 8 4 709 YES

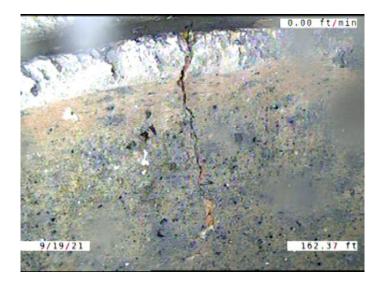


SSS Surface Damage Surface Spalling
141.2
2
0
3
4
NO

Remarks:



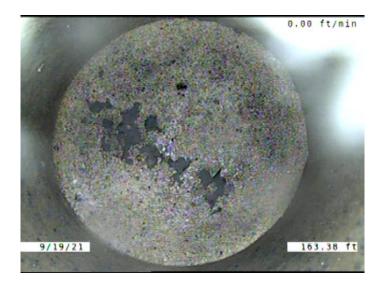
MWLS Miscellaneous Water Level Sag
160.0
2
0
20.000
S10
NO



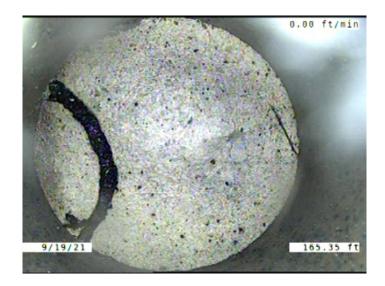
Code: Description:	FL Fracture Longitudinal
Distance (ft):	162.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	10
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	SSS
Description:	Surface Damage Surface Spalling
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	162.7 2 0 2 YES



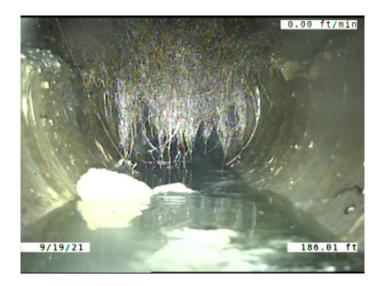
Code: Description:	TFC Tap Factory Capped
Distance (ft):	163.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



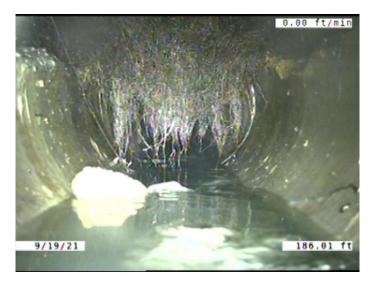
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To:	165.4 0 3 11
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	4.000 YES
Remarks:	CAPPED



Code:	FM
Description:	Fracture Multiple
Distance (ft):	172.6
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S11
Within 8" of Joint:	YES
Remarks:	



Code: Description:	RFJ Roots Fine Joint
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	186.0 0 1 8 4
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	F08 YES



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	186.0
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	F10
Within 8" of Joint:	NO

Remarks:



Code: Description:	FM Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	186.0 4 0 8 4 F11 F11 YES



Code: Description:	DSF Deposits Settled Fine
Distance (ft):	187.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F03
Within 8" of Joint:	YES
Remarks:	



Code: Description:	AMH Manhole
Distance (ft):	187.5
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-503-021