## **Profile/Photo Observation Report**

					RUBUTICS
Date:	01/14/2022	Weather:		Coding:	PACP 7.0
Pipe Length (ft)	: <b>285.1</b>	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-505-086-087
Customer:	City of Hobart	Clean Date:	01/12/2021	Shape:	С
Street:	West 4th Place		Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Local rural streets	with light traffic, t	: Tape/Media #:		
Purpose:	Routine Assessme	nt	Dia/Height:	10"	
Use:	Sanitary Sewage P	Pipe	Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details	5:		Direction of Survey	Downstream	
US MH:	M-505-086	DS MH:	M-505-087	Total Length Surveyed (ft):	285.0
O&M Index:	1.91	O&M Quick:	322D	O&M Rating:	67.00
Structural Index:	2.68	Structural Qui	-k· 5443	Structural Rating:	83.00
Overall Index:	2.27	Overall Quick:	E 4 4 2	Overall Rating:	150.00

	Position	Code	Observation	Video (sec)	Grade
M(505-	086				
¥	0.	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	65	NA
	.9	DSC	Deposits Settled Hard/Compacted	87	M 2
- 11	1.6	CS	Crack Spiral	149	S 2
	1.6	DAE	Deposits Attached Encrustation	164	M 2
	4.8	DSC	Deposits Settled Hard/Compacted	205	M 2
	9.9	В	Broken	278	S 4
	9.9	IDB	Infiltration Dripper Barrel	292	M 3
	9.9	DAE	Deposits Attached Encrustation	329	M 2
5 <b></b>	9.9	MWL	Miscellaneous Water Level	350	NA
	11.1	TF	Tap Factory	372	NA
Lamera Direction	22.3	ISJ	Infiltration Stain Joint	450	M 1
	23.4	IWB	Infiltration Weeper Barrel	481	M 2
	25.7	IWB	Infiltration Weeper Barrel	530	M 2
	26.6	IWB	Infiltration Weeper Barrel	559	M 2
	30.3	MWLS(S01)	Miscellaneous Water Level Sag	592	S 2
l 📑	37.1	BSV	Broken Soil Visible	696	S 5
	41.6	BSV	Broken Soil Visible	813	S 5
	42.9	DSF(S02)	Deposits Settled Fine	836	M 2

**RedZone**<sup>®</sup>

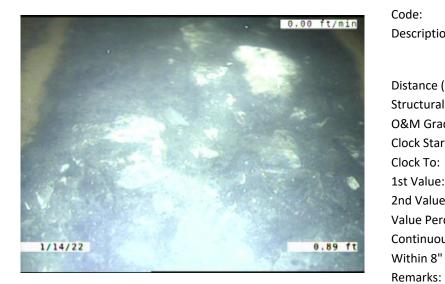
	45.2	BSV(S03)	Broken Soil Visible	971	S 5
	45.5	DR	Deformed Rigid	999	S 5
	48.6	BSV(F03)	Broken Soil Visible	1126	S 5
	70.9	MWLS(F01)	Miscellaneous Water Level Sag	1207	S 2
	78.0	TF	Tap Factory	1249	NA
	79.1	CM	Crack Multiple	1296	S 3
	79.5	ISB	Infiltration Stain Barrel	1322	M 1
	81.0	MWLS(S04)	Miscellaneous Water Level Sag	1344	S 2
	85.1	TF	Tap Factory	1390	NA
	86.1	CS	Crack Spiral	1430	S 2
	86.1	ISB	Infiltration Stain Barrel	1438	M 1
	90.1	CS	Crack Spiral	1492	S 2
	90.1	DAE	Deposits Attached Encrustation	1522	M 2
	96.7	MWLS(F04)	Miscellaneous Water Level Sag	1558	S 2
	96.7	DSF(F02)	Deposits Settled Fine	1566	M 2
	104.6	CS	Crack Spiral	1622	S 2
	104.9	ISB	Infiltration Stain Barrel	1646	M 1
	121.3	DAE	Deposits Attached Encrustation	1728	M 2
	121.3	MWLS(S05)	Miscellaneous Water Level Sag	1739	S 2
	126.1	SZ	Surface Damage Other	1778	NA
	127.6	DSF(S06)	Deposits Settled Fine	1800	M 2
	151.6	MWLS(F05)	Miscellaneous Water Level Sag	1898	S 2
	151.6	DSF(F06)	Deposits Settled Fine	1906	M 2
\\	176.7	ISJ	Infiltration Stain Joint	2044	M 1
	176.7	DAE	Deposits Attached Encrustation	2063	M 2
	197.9	TF	Tap Factory	2168	NA
	203.6	В	Broken	2249	S 4
	208.9	FS	Fracture Spiral	2309	S 3
	224.0	В	Broken	2421	S 4
	224.2	DAE	Deposits Attached Encrustation	2448	M 2
	241.5	MWL	Miscellaneous Water Level	2614	NA
	244.0	FS	Fracture Spiral	2648	S 3
+	251.4	MWL	Miscellaneous Water Level	2733	NA
	256.3	MWL	Miscellaneous Water Level	2767	NA
	265.1	TFD	Tap Factory Defective	2889	M 3
	270.1	MWL	Miscellaneous Water Level	2953	NA
+	272.1	TF	Tap Factory	2984	NA
	278.5	DSC	Deposits Settled Hard/Compacted	3040	M 2
	285.0	AMH	Manhole	3191	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-505-086



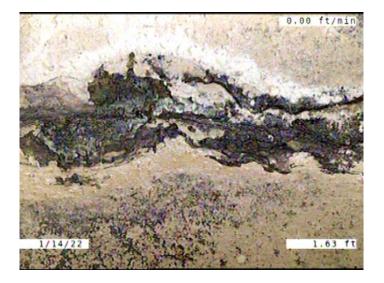
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



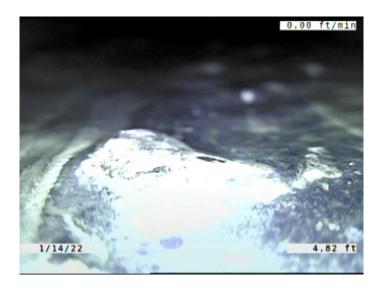
Code: Description:	DSC Deposits Settled Hard/Compacted
Distance (ft):	.9
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES



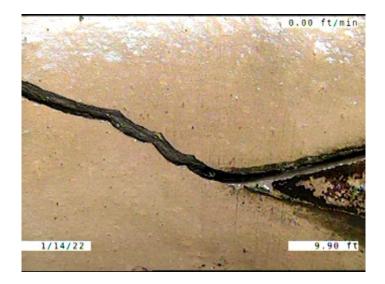
Code: Description:	CS Crack Spiral
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	1.6 2 0 8 2 YES



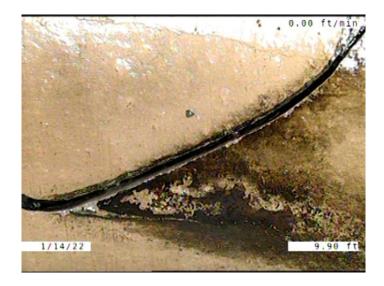
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	1.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



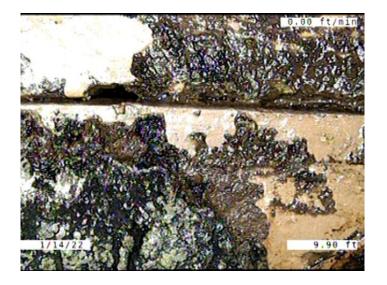
Code: Description:	DSC Deposits Settled Hard/Compacted
Distance (ft):	4.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



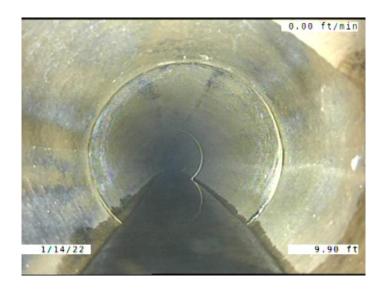
В
Broken
9.9
4
0
12
2
YES



Code: Description:	IDB Infiltration Dripper Barrel
Distance (ft):	9.9
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



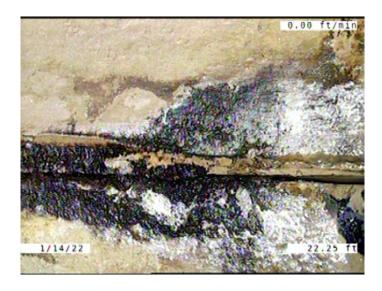
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	9.9
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



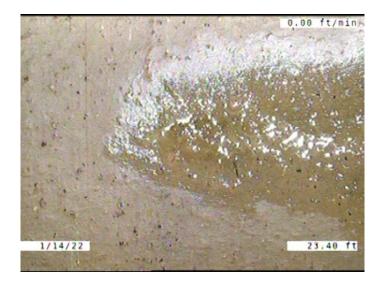
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	9.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



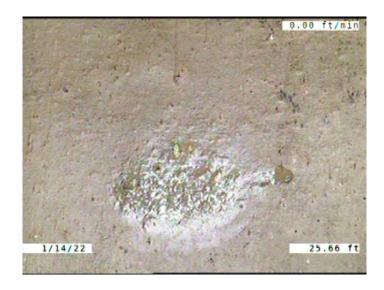
Code:	TF
Description:	Tap Factory
Distance (ft):	11.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	CONSTANTLY RUNNING WATER.



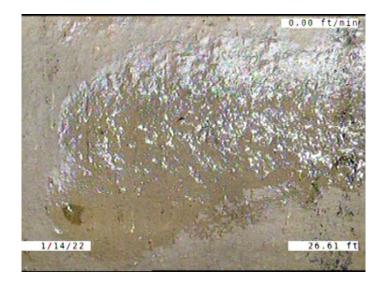
Code: Description:	ISJ Infiltration Stain Joint
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	22.3 0 1 7 9
Within 8" of Joint: Remarks:	YES



Code: Description:	IWB Infiltration Weeper Barrel
Distance (ft):	23.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



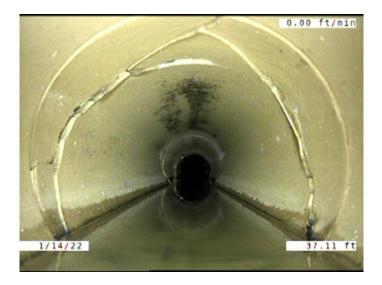
Code: Description:	IWB Infiltration Weeper Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	25.7 0 2 9



Code: Description:	IWB Infiltration Weeper Barrel
Distance (ft):	26.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



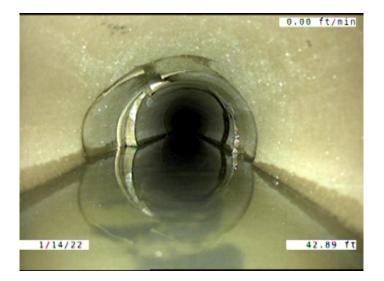
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	30.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S01
Within 8" of Joint:	NO
Remarks:	
Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	10.000 S01



Code: Description:	BSV Broken Soil Visible
Distance (ft):	37.1
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
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:	41.6 5 0 6 12 YES



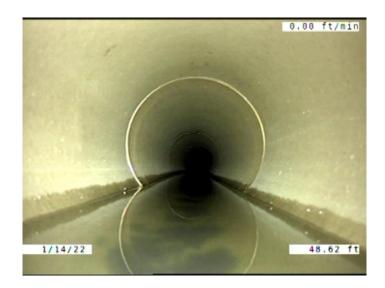
Code: Description:	DSF Deposits Settled Fine
Distance (ft):	42.9
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S02
Within 8" of Joint:	YES
Remarks:	



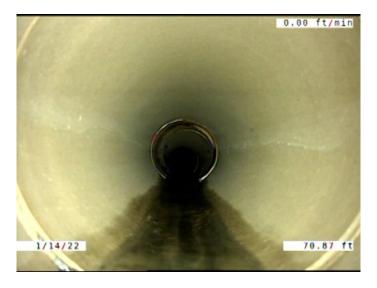
Code:	BSV
Description:	Broken Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	45.2 5 0 12 12 503 YES



Code: Description:	DR Deformed Rigid
Distance (ft):	45.5
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



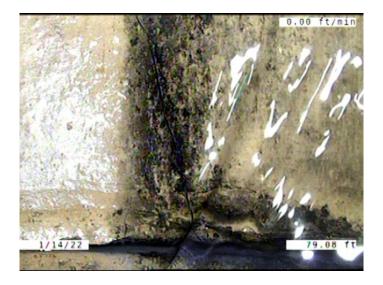
Code:	BSV
Description:	Broken Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	48.6 5 0 12 12 703 YES



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	70.9
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



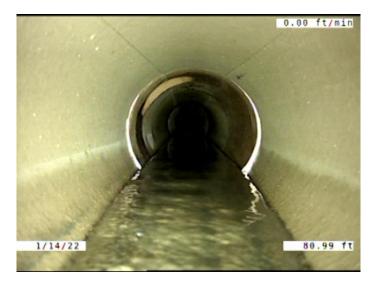
Code:	TF
Description:	Tap Factory
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To:	78.0 0 1
1st Value: 2nd Value: Value Percent: Continuous Index:	4.000
Within 8" of Joint:	YES
Remarks:	CONSTANTLY RUNNING WATER.



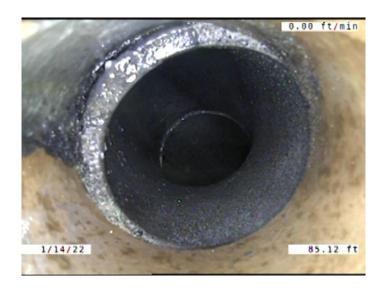
Code:	СМ
Description:	Crack Multiple
Distance (ft):	79.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	8
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



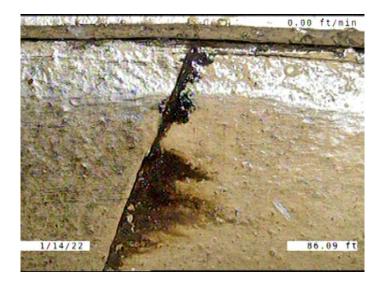
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	79.5 0 1 7 8



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	81.0
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



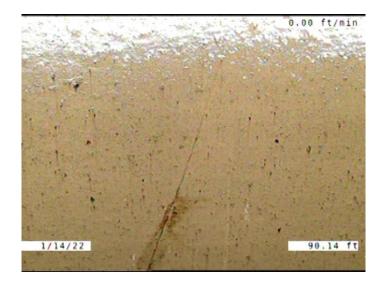
Code:	TF
Description:	Tap Factory
Distance (ft):	85.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To: 1st Value: 2nd Value: Value Percent:	4.000
Continuous Index: Within 8" of Joint: Remarks:	YES CONSTANTLY DRIPPING WATER.



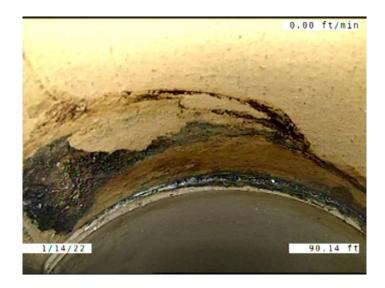
Code:	CS
Description:	Crack Spiral
Distance (ft):	96.1
Distance (ft):	86.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	1
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



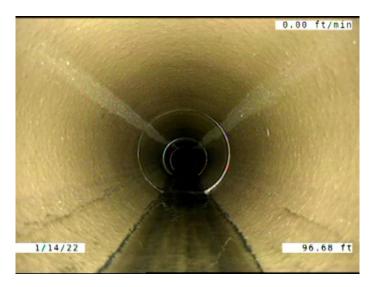
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	86.1 0 1 1 3
Continuous Index: Within 8" of Joint: Remarks:	YES



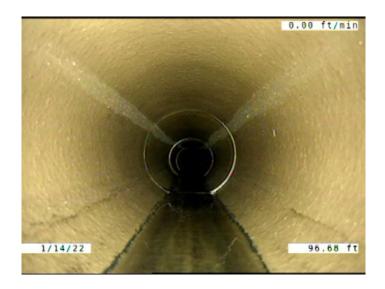
Code:	CS
Description:	Crack Spiral
Distance (ft):	90.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	12
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



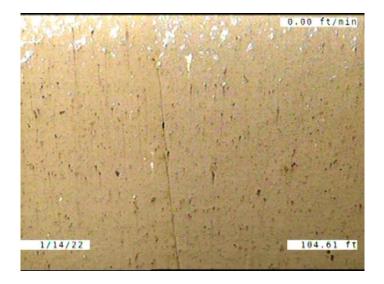
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	90.1 0 2 8 1 5.000
Within 8" of Joint: Remarks:	YES



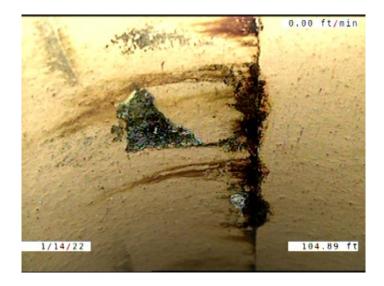
MWLS Miscellaneous Water Level Sag
96.7
2
0
10.000
F04
NO



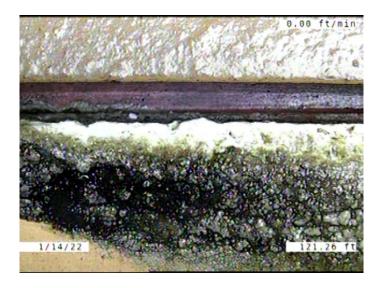
Code:	DSF
Description:	Deposits Settled Fine
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	96.7 0 2 5 7 5.000 F02 YES



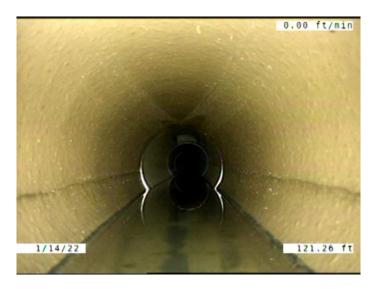
Code:	CS
Description:	Crack Spiral
Distance (ft):	104 6
Distance (ft):	104.6
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	9
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	ISB Infiltration Stain Barrel
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:	104.9 0 1 8 10 YES



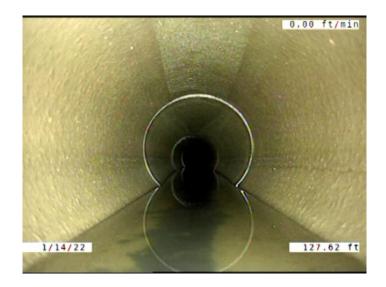
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	121.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



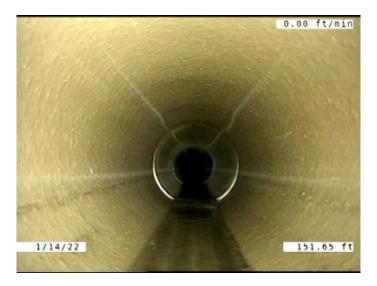
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	121.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S05
Within 8" of Joint:	NO
Remarks:	



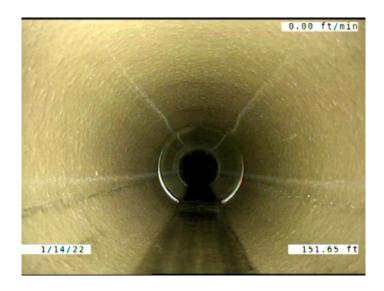
Code:	SZ
Description:	Surface Damage Other
Distance (ft):	126.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	2
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	A PIECE CHIPPED AWAY FROM THE JOINT



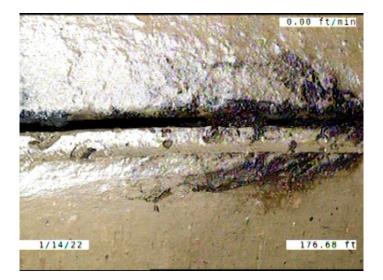
Code: Description:	DSF Deposits Settled Fine
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	127.6 0 2 5 7 5.000 \$06 YES
Remarks:	



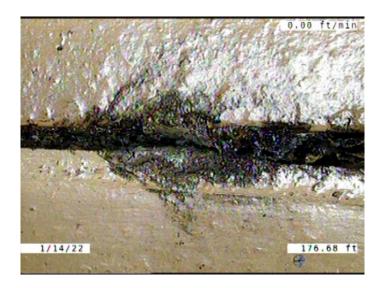
MWLS Miscellaneous Water Level Sag
151.6
2
0
10.000
F05
NO



Code: Description:	DSF Deposits Settled Fine
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:	151.6 0 2 5 7 5.000 F06 YES



Code: Description:	ISJ Infiltration Stain Joint
Distance (ft):	176.7
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	176.7 0 2 2 4
Value Percent: Continuous Index:	5.000
Within 8" of Joint: Remarks:	YES



Code:	TF
Description:	Tap Factory
Distance (ft):	197.9
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:	LARGE OFFSET ON THE FIRST JOINT
	ВАСК



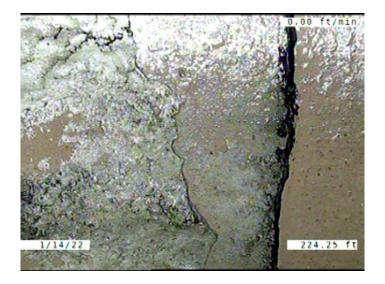
Code: Description:	B Broken
Distance (ft):	203.6
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	FS
Description:	Fracture Spiral
Distance (ft):	208.9
Distance (ft):	200.9
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	12
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



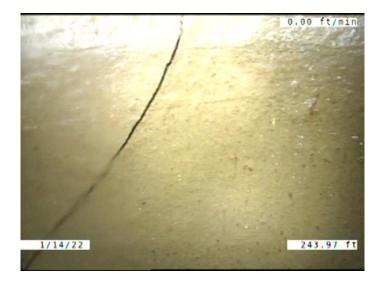
Code: Description:	B Broken
Distance (ft):	224.0
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



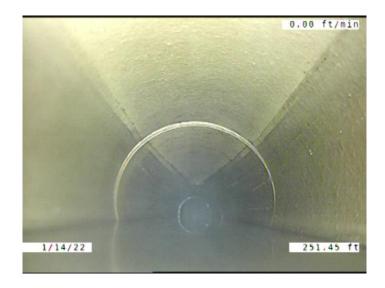
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	224.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



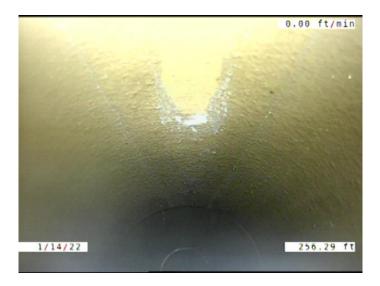
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	241.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	25.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



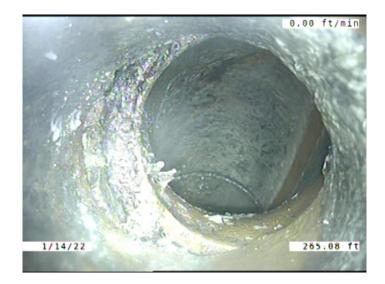
Code:	FS
Description:	Fracture Spiral
Distance (ft):	244.0
Distance (ft):	244.0
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	251.4
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:	



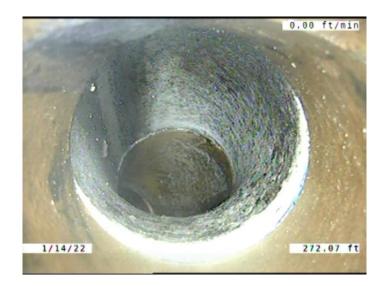
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	256.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	25.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



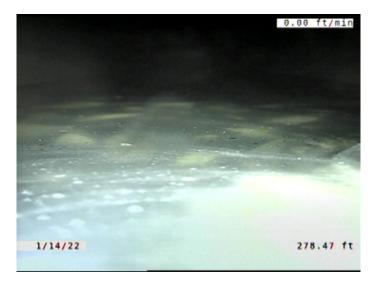
Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	265.1
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	2
Clock To: 1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES CONSTANTLY RUNNING WATER. MAIN TO SERVICE CONNECTION BR



Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	270.1
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:	TF Tap Factory
Distance (ft): Structural Grade:	272.1 0
O&M Grade: Clock Start/From: Clock To:	0 11
1st Value: 2nd Value: Value Percent:	4.000
Continuous Index: Within 8" of Joint: Remarks:	YES



## Code:

Description:

DSC Deposits Settled Hard/Compacted

Distance (ft):	278.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	AMH Manhole
Distance (ft):	285.0
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-505-087