Profile/Photo Observation Report



Date: 09/07/2021 Weather: Coding: PACP 7.0

Pipe Length (ft): 199.6 Owner: City of Hobart Pre Clean: Light Cleaning

P.O.#: YES502259 Surveyor: S. Bucklin PSR: M-504-110_M-504-110.1 Customer: Oity of Hobart Clean Date: 08/26/2021 Shape: C

Street: 41st Avenue Flow Control: Not Controlled

City: Hobart, IN Year Renewed: Location: Alley Tape/Media #:

Purpose:Routine AssessmentDia/Height:10"Use:Sanitary Sewage PipeMaterial:CPDrain Area:Lining:None

Category: NA

Comment:

Location Details: Direction of Survey: **Upstream**

US MH: M-504-110 DS MH: M-504-110.1 Total Length Surveyed (ft): 199.6

1.94 4134 122.00 O&M Index: O&M Quick: O&M Rating: 2.69 35.00 Structural Rating: Structural Index: Structural Quick: 2.07 4437 157.00 Overall Index: Overall Quick: Overall Rating:

	Position	Code	Observation	Video (sec)	Grade
-504-2	10.1				
	0. /	AMH	Manhole	1	NA
	0.	MWL	Miscellaneous Water Level	62	NA
	7\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CM	Crack Multiple	121	S 3
-	¬\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DAE	Deposits Attached Encrustation	144	M 2
	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FM	Fracture Multiple	212	S 4
	3.3	TB	Tap Break-in/Hammer	230	NA
	8.0	DSF(S01)	Deposits Settled Fine	262	M 2
ш	12.5	MWLS(S02)	Miscellaneous Water Level Sag	291	S 2
ш	17.1	MMC	Miscellaneous Material Change	346	NA
ш	18.3	TFD	Tap Factory Defective	375	M 3
н	√\\\\ <u>1</u> 9.3	MMC	Miscellaneous Material Change	421	NA
	_\\\\ <u>25.3</u>	DAE	Deposits Attached Encrustation	471	M 2
	28.4	DAE	Deposits Attached Encrustation	511	M 2
н	37.6	MWLS(F02)	Miscellaneous Water Level Sag	562	S 2
н	₹\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DAR	Deposits Attached Ragging	598	M 2
н	46.8	MMC	Miscellaneous Material Change	654	NA
	48.0	TF	Tap Factory	681	NA
	48.9	MMC	Miscellaneous Material Change	722	NA
	¬\\\\\52.6	CM	Crack Multiple	829	S 3

53.0	TBI	Tap Break-in Intruding	854	M 2
56.5	TBD	Tap Break-in/Hammer Defective	960	М 3
63.9	DAE	Deposits Attached Encrustation	1023	M 2
68.8	DAE	Deposits Attached Encrustation	1079	M 2
80.0	DAE	Deposits Attached Encrustation	1184	M 2
82.9	DAR	Deposits Attached Ragging	1219	M 2
101.2	MMC	Miscellaneous Material Change	1331	NA
102.3	TF	Tap Factory	1359	NA
103.2	В	Broken	1424	S 4
103.2	MMC	Miscellaneous Material Change	1492	NA
106.3	MMC	Miscellaneous Material Change	1546	NA
108.5	TF	Tap Factory	1585	NA
109.2	MMC	Miscellaneous Material Change	1628	NA
109.2	RMJ	Roots Medium Joint	1680	М 3
112.5	RFJ(S03)	Roots Fine Joint	1733	M :
113.5	MWLS(S04)	Miscellaneous Water Level Sag	1758	S 2
123.0	MWLS(F04)	Miscellaneous Water Level Sag	1806	S 2
142.4	MMC	Miscellaneous Material Change	1918	NA
142.4	DAE	Deposits Attached Encrustation	1975	M
145.7	DAE	Deposits Attached Encrustation	2049	M 2
148.0	RFJ(F03)	Roots Fine Joint	2083	M :
151.7	RFJ	Roots Fine Joint	2118	M :
151.7	СМ	Crack Multiple	2143	S 3
154.1	TF	Tap Factory	2173	NA
154.8	MMC	Miscellaneous Material Change	2221	NA
157.7	MMC	Miscellaneous Material Change	2278	NA
160.1	TFD	Tap Factory Defective	2313	М 3
160.8	В	Broken	2374	S 4
160.9	MMC	Miscellaneous Material Change	2409	NA
163.9	RFJ(S05)	Roots Fine Joint	2462	M :
169.7	RFJ(F05)	Roots Fine Joint	2509	M :
179.2	RFJ	Roots Fine Joint	2562	M :
198.5	DSF(F01)	Deposits Settled Fine	2650	M
199.6	AMH	Manhole	2718	NA

Wednesday, October 13, 2021



Code: AMH
Description: Manhole

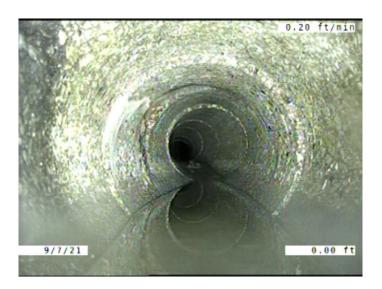
Distance (ft): .0
Structural Grade: 0
O&M Grade: 0

Clock Start/From:

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: NO

Remarks: M-504-110.1



Code: MWL

Description: Miscellaneous Water Level

Distance (ft): .0
Structural Grade: 0
O&M Grade: 0

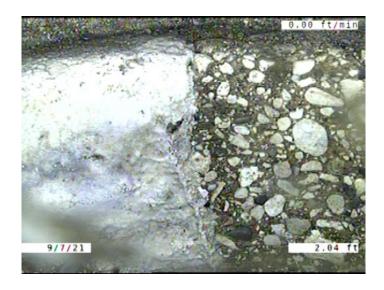
Clock Start/From:

Clock To: 1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: NO



Code: CM

Description: **Crack Multiple**

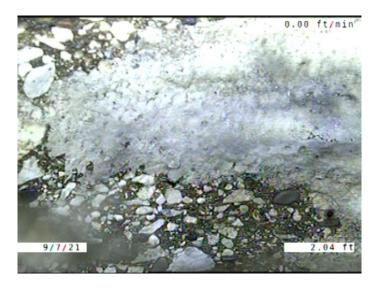
Distance (ft): 2.0 Structural Grade: 3 0 O&M Grade: Clock Start/From: 10 Clock To: 12

1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: DAE

Description: **Deposits Attached Encrustation**

Distance (ft): 2.0 Structural Grade: 0 O&M Grade: 2 Clock Start/From: 9 Clock To: 11 1st Value:

2nd Value: Value Percent:

Continuous Index:

Within 8" of Joint:

Remarks:

YES

5.000



Code: **FM**

Description: Fracture Multiple

Distance (ft): 2.9
Structural Grade: 4

O&M Grade: 0

Clock Start/From: 12

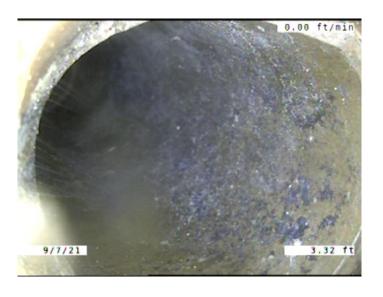
Clock To: 12

1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: **TB**

Description: Tap Break-in/Hammer

Distance (ft): 3.3
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: NO



Code: **DSF**

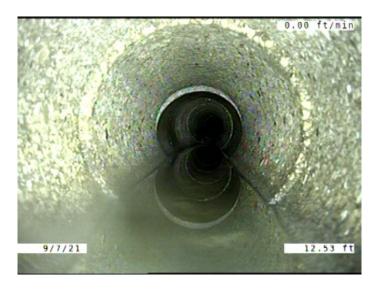
Description: Deposits Settled Fine

Distance (ft): 8.0
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 5
Clock To: 7

1st Value: 2nd Value:

Value Percent: 5.000
Continuous Index: S01
Within 8" of Joint: YES

Remarks:



Code: MWLS

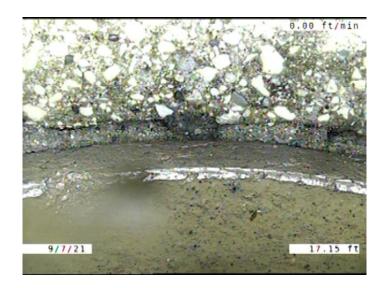
Description: Miscellaneous Water Level Sag

Distance (ft): 12.5
Structural Grade: 2
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



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 17.1
Structural Grade: 0

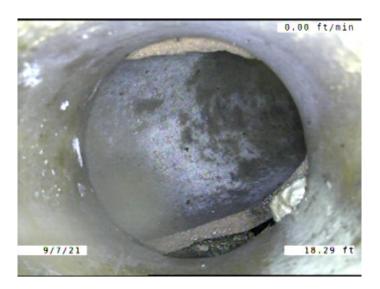
O&M Grade: 0

Clock Start/From: Clock To:

1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: NO

Remarks: CONCRETE TO VCP



Code: **TFD**

Description: Tap Factory Defective

Distance (ft): 18.3
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: **Defective**



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 19.3
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: VCP TO CONCRETE



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 25.3
Structural Grade: 0

O&M Grade: 2

Clock Start/From: 4

Clock To: 7

1st Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:

2nd Value:



Code: DAE

Description: **Deposits Attached Encrustation**

Distance (ft): 28.4 Structural Grade: 0 2 O&M Grade: Clock Start/From: 4 Clock To: 7

1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:

0.00 ft/min

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

37.6 Distance (ft): Structural Grade: 2 O&M Grade: 0

Clock Start/From:

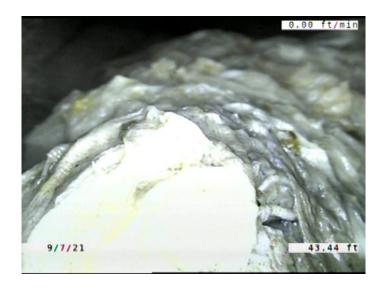
Clock To: 1st Value: 2nd Value:

Value Percent: 5.000 Continuous Index: F02 Within 8" of Joint: NO

Remarks:



9/7/21



Code: DAR

Description: Deposits Attached Ragging

Distance (ft): 43.4
Structural Grade: 0

O&M Grade: 2

Clock Start/From: 5

Clock To: 7

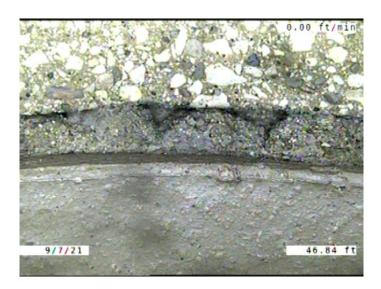
1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks: TP AND RAGS



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 46.8
Structural Grade: 0

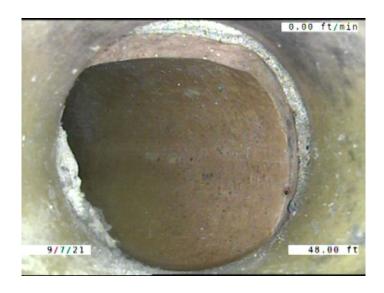
O&M Grade: 0

Clock Start/From:

Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:

Within 8" of Joint: NO

Remarks: CONCRETE TO VCP



Code: **TF**

Description: **Tap Factory**

Distance (ft): 48.0
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:

Remarks:

YES



Code: MMC

Description: Miscellaneous Material Change

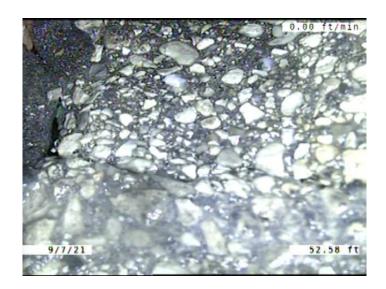
Distance (ft): 48.9
Structural Grade: 0
O&M Grade: 0

Clock Start/From:

Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:

Within 8" of Joint: NO

Remarks: VCP TO CONCRETE



Code: CM

Description: Crack Multiple

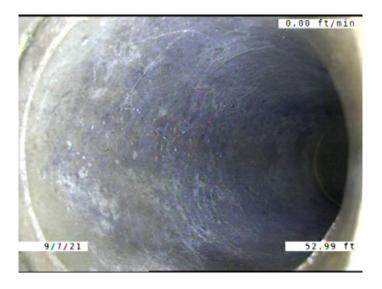
Distance (ft): 52.6
Structural Grade: 3
O&M Grade: 0
Clock Start/From: 3
Clock To: 9

1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

NO



Code: TBI

Description: Tap Break-in Intruding

Distance (ft): 53.0
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 10

Clock To:

 1st Value:
 4.000

 2nd Value:
 2.000

Value Percent: Continuous Index:

Within 8" of Joint: NO



Code: TBD

Description: Tap Break-in/Hammer Defective

Distance (ft): 56.5
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 12

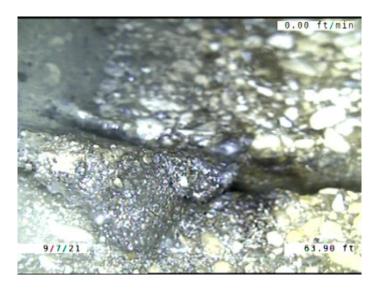
Clock To:

1st Value: **4.000**

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks: **Defective**



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 63.9
Structural Grade: 0

O&M Grade: 2

Clock Start/From: 4

Clock To: 8

1st Value:

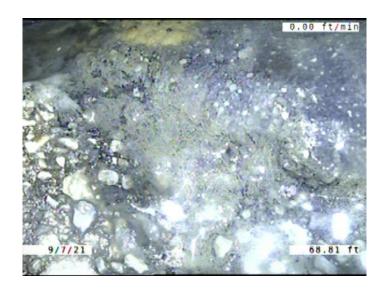
Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:

2nd Value:



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 68.8
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 5
Clock To: 7

1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 80.0
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: YES



Code: DAR

Description: Deposits Attached Ragging

Distance (ft): 82.9
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 6
Clock To: 7

1st Value:

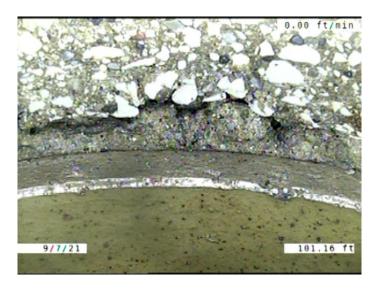
2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks: TP AND RAGS



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 101.2
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: CONCRETE TO VCP



Code: **TF**

Description: Tap Factory

Distance (ft): 102.3
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:

Remarks:

YES



Code: **B**

Description: Broken

Distance (ft): 103.2
Structural Grade: 4

O&M Grade: 0

Clock Start/From: 9

Clock To: 2

1st Value:

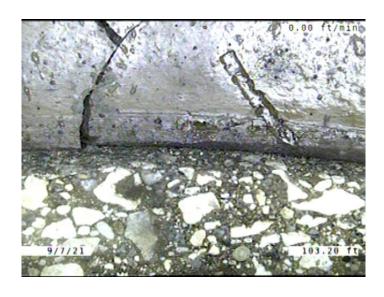
2nd Value:

Value Percent:

Continuous Index: Within 8" of Joint:

Remarks:

YES



Code: MMC

Description: Miscellaneous Material Change

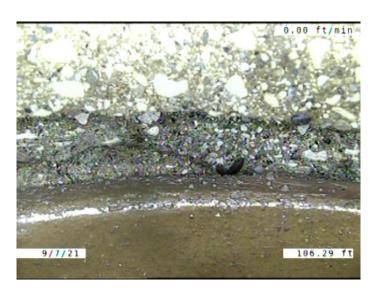
Distance (ft): 103.2
Structural Grade: 0
O&M Grade: 0

Clock Start/From:

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: NO

Remarks: VCP TO CONCRETE



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 106.3
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: CONCRETE TO VCP



Code: **TF**

Description: **Tap Factory**

Distance (ft): 108.5
Structural Grade: 0
O&M Grade: 0
Clock Start/From: 12

Clock To:

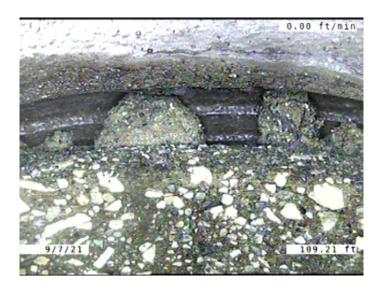
1st Value: **4.000**

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 109.2
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 CONCRETE



Code: RMJ

Description: Roots Medium Joint

Distance (ft): 109.2
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 7
Clock To: 4

1st Value: 2nd Value:

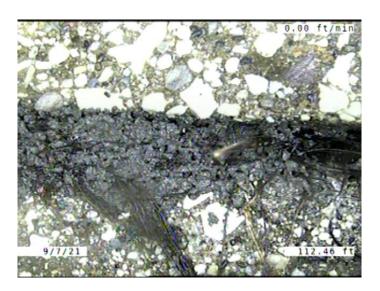
Value Percent: 5.000

Continuous Index:

Within 8" of Joint:

Remarks:

YES

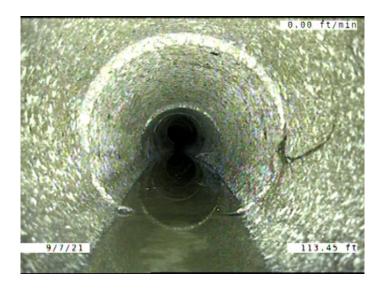


Code: RFJ

Description: Roots Fine Joint

Distance (ft): 112.5
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 2
Clock To: 9
1st Value:
2nd Value:
Value Percent:

Continuous Index: **S03**Within 8" of Joint: **YES**



Code: **MWLS**

Description: **Miscellaneous Water Level Sag**

Distance (ft): 113.5 Structural Grade: 2 0 O&M Grade:

Clock Start/From:

Clock To: 1st Value: 2nd Value:

Value Percent: 5.000 Continuous Index: **S04** Within 8" of Joint: NO

Remarks:

0.00 ft/min

Code: **MWLS**

Description: **Miscellaneous Water Level Sag**

Distance (ft): 123.0 Structural Grade: 2 O&M Grade: 0

Clock Start/From:

Clock To: 1st Value: 2nd Value:

Value Percent: 5.000 Continuous Index: F04 Within 8" of Joint: NO





Code: MMC

Description: Miscellaneous Material Change

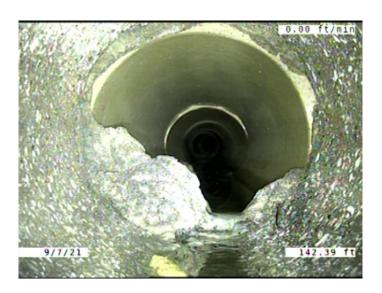
Distance (ft): 142.4
Structural Grade: 0
O&M Grade: 0

Clock Start/From:

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: NO

Remarks: CONCRETE TO VCP



Code: DAE

Description: Deposits Attached Encrustation

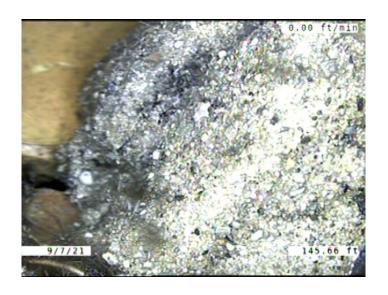
Distance (ft): 142.4
Structural Grade: 0
O&M Grade: 4
Clock Start/From: 4
Clock To: 9
1st Value:

2nd Value:

Value Percent: 25.000

Continuous Index:

Within 8" of Joint: YES



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 145.7
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 6
Clock To: 8

1st Value: 2nd Value:

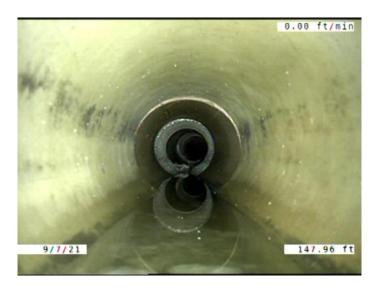
Value Percent: 10.000

Continuous Index:

Within 8" of Joint:

Remarks:

YES

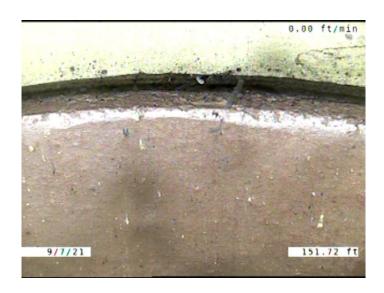


Code: RFJ

Description: Roots Fine Joint

Distance (ft): 148.0
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 2
Clock To: 9
1st Value:
2nd Value:
Value Percent:

Continuous Index: F03
Within 8" of Joint: YES



Code: RFJ

Description: **Roots Fine Joint**

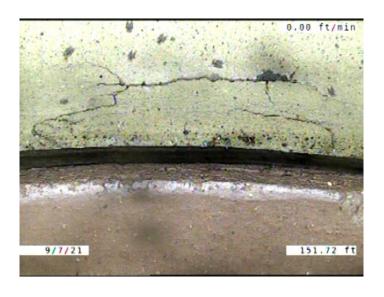
Distance (ft): 151.7 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 11

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



CM Code:

Description: **Crack Multiple**

Distance (ft): 151.7 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:

Remarks:

YES



Code: **TF**

Description: **Tap Factory**

Distance (ft): 154.1
Structural Grade: 0
O&M Grade: 0
Clock Start/From: 11

Clock To:

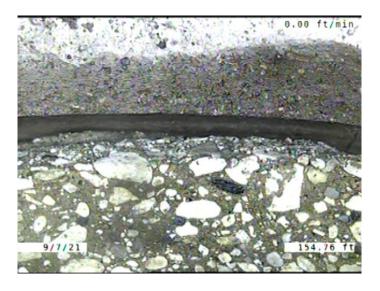
1st Value: **4.000**

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: MMC

Description: Miscellaneous Material Change

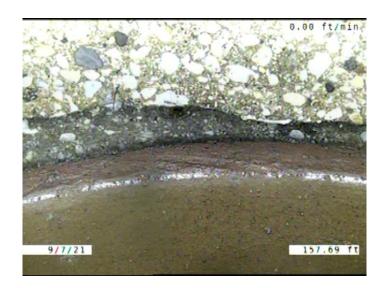
Distance (ft): 154.8
Structural Grade: 0
O&M Grade: 0

Clock Start/From:

Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:

Within 8" of Joint: NO

Remarks: VCP TO CONCRETE



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 157.7
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: CONCRETE TO VCP



Code: **TFD**

Description: Tap Factory Defective

Distance (ft): 160.1
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 1

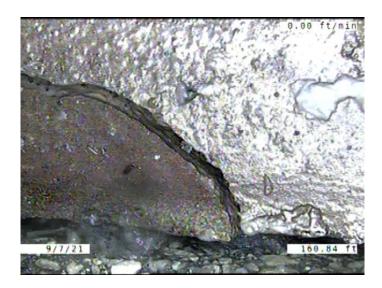
Clock To:

1st Value: **4.000**

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks: **Defective**



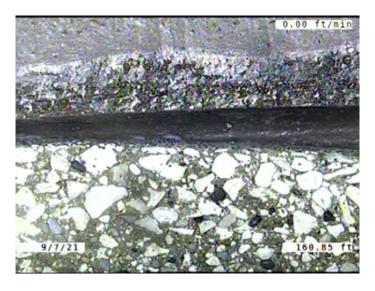
Code: B
Description: Broken

Distance (ft): 160.8
Structural Grade: 4
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:



Code: MMC

Description: Miscellaneous Material Change

Distance (ft): 160.9
Structural Grade: 0

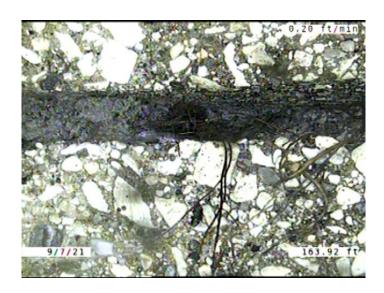
O&M Grade: 0

Clock Start/From:

Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:

Within 8" of Joint: NO

Remarks: VCP TO CONCRETE



Code: RFJ

Description: Roots Fine Joint

Distance (ft): 163.9
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 3
Clock To: 9

1st Value: 2nd Value: Value Percent:

Continuous Index: S05
Within 8" of Joint: YES

Remarks:



Code: RFJ

Description: Roots Fine Joint

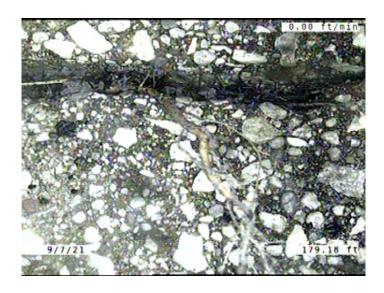
F05

YES

Distance (ft): 169.7
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 3
Clock To: 9
1st Value:
2nd Value:
Value Percent:

Within 8" of Joint:

Continuous Index:



Code: RFJ

Description: **Roots Fine Joint**

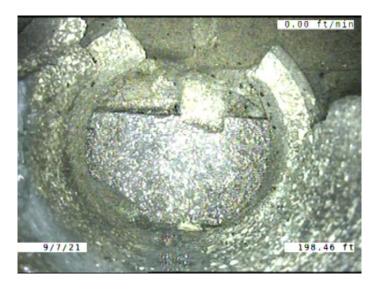
Distance (ft): 179.2 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 8

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



DSF Code:

Description: **Deposits Settled Fine**

Distance (ft): 198.5 Structural Grade: 0 O&M Grade: 2 Clock Start/From: 5 7 Clock To: 1st Value:

Value Percent: 5.000 Continuous Index: F01 Within 8" of Joint: YES

Remarks:

2nd Value:



Code: AMH
Description: Manhole

Distance (ft): 199.6
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-504-110