## **Profile/Photo Observation Report**



Date: 11/11/2021 **PACP 7.0** Weather: Coding: **City of Hobart** Pipe Length (ft): 175.7 Owner: Pre Clean: **Heavy Cleaning** P.O.#: Surveyor: Steven Bucklin PSR: P-605-023-021 YES502259

Customer: City of Hobart, IN (Red Clean Date: 11/10/2021 Shape: C

Street: Henry Street Flow Control: Not Controlled

City: City of Hobart Year Renewed:
Location: Local rural streets with light traffic, t Tape/Media #:

Purpose:Routine AssessmentDia/Height:12"Use:Sanitary Sewage PipeMaterial:VCPDrain Area:Lining:None

Category: NA

Comment:

Location Details: Direction of Survey: **Downstream** 

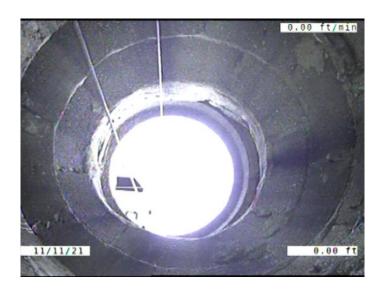
US MH: M-605-021 DS MH: M-605-023 Total Length Surveyed (ft): 175.7

2.07 3A2D 87.00 O&M Index: O&M Quick: O&M Rating: 2.44 44.00 Structural Rating: Structural Index: Structural Quick: 2.18 131.00 Overall Quick: Overall Rating: Overall Index:

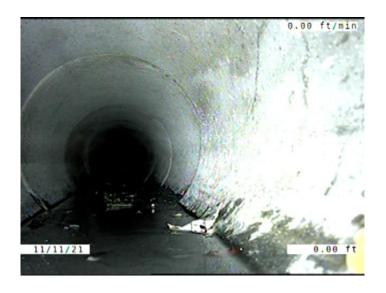
	Position	Code	Observation	Video (sec)	Grade
M(605-)	021				
	0.	AMH	Manhole	1	NA
- 11	0.	MWL	Miscellaneous Water Level	61	NA
- 11	<u>.0</u>	DSF(S01)	Deposits Settled Fine	70	M 2
- 11	\\3.6	SSS	Surface Damage Surface Spalling	112	S 2
- 11	\3.7	FM	Fracture Multiple	159	S 4
- 11	24.3	FM	Fracture Multiple	281	S 4
	26.4	CM	Crack Multiple	344	S 3
	41.1	CL	Crack Longitudinal	412	S 2
- 11	42.8	CC	Crack Circumferential	419	S 1
5	//50.6	RFJ	Roots Fine Joint	464	M 1
Camera Direction	// 52.9	RFJ	Roots Fine Joint	497	M 1
	/ // 56.9	FM	Fracture Multiple	529	S 4
nera	///59.8	CL	Crack Longitudinal	548	S 2
Ça	/// <u>61.7</u>	CC	Crack Circumferential	553	S 1
	/// 70.9	FM	Fracture Multiple	591	S 4
	// 72.4	ТВІ	Tap Break-in Intruding	619	M 2
1	73.5	RTJ	Roots Tap Joint	669	M 2
	// <del>76.4</del>	TFD	Tap Factory Defective	705	M 3
	// <del>76.4</del>	CC	Crack Circumferential	719	S 1

	98.0	RMJ	Roots Medium Joint	869	M 3
ш	98.4	CC	Crack Circumferential	963	S 1
	98.8	CL	Crack Longitudinal	968	S 2
	99.6	RMJ	Roots Medium Joint	991	M 3
	101.9	CL	Crack Longitudinal	1030	S 2
	101.9	RMJ	Roots Medium Joint	1037	M 3
	101.9	RFJ	Roots Fine Joint	1054	M 1
	103.4	DSF(F01)	Deposits Settled Fine	1081	M 2
	105.8	SZ(S04)	Surface Damage Other	1105	NA
	112.5	SZ(F04)	Surface Damage Other	1200	NA
	117.1	TFD	Tap Factory Defective	1175	M 3
	117.4	SSS	Surface Damage Surface Spalling	1200	S 2
	117.8	TBD	Tap Break-in/Hammer Defective	1242	M 3
ш	140.9	MWLS	Miscellaneous Water Level Sag	1350	S 2
ш	145.6	FM	Fracture Multiple	1386	S 4
	147.3	DAE	Deposits Attached Encrustation	1405	M 2
	147.3	DAE	Deposits Attached Encrustation	1434	M 2
	147.4	RFJ	Roots Fine Joint	1446	M 1
	153.5	CM	Crack Multiple	1513	S 3
	153.5	RFJ	Roots Fine Joint	1529	M 1
	156.5	TF	Tap Factory	1565	NA
	157.5	RMJ(S03)	Roots Medium Joint	1622	M 3
	168.0	RFJ	Roots Fine Joint	1705	M 1
	173.9	RFJ	Roots Fine Joint	1800	M 1
	175.2	RMJ(F03)	Roots Medium Joint	1835	M 3
	175.7	AMH	Manhole	1917	NA

M 605-023



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-605-021



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: **DSF** 

Description: Deposits Settled Fine

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

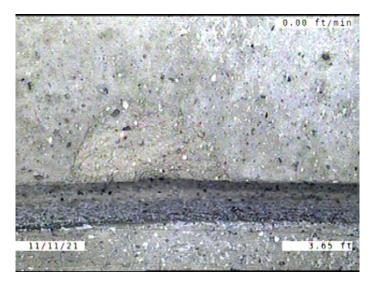
2nd Value: Value Percent:

5.000 S01

Continuous Index: Within 8" of Joint:

YES

Remarks:



Code: SSS

Description: Surface Damage Surface Spalling

Distance (ft): 3.6

Structural Grade: 2

O&M Grade: 0

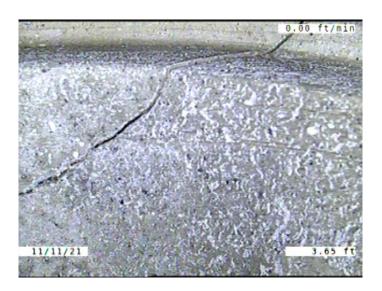
Clock Start/From: 10

11

YES

Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint:

Remarks:



Code: FM

Description: Fracture Multiple

Distance (ft): 3.7
Structural Grade: 4

O&M Grade: 0

Clock Start/From: 8

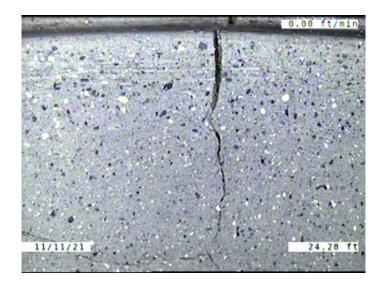
Clock To: 3

1st Value: 2

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks:

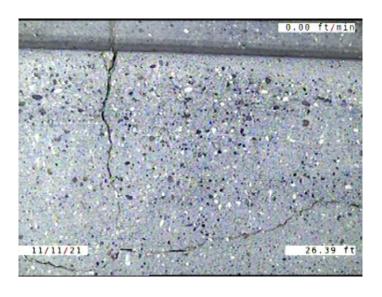


Code: FΜ Description: **Fracture Multiple** 

Distance (ft): 24.3 Structural Grade: 4 O&M Grade: 0 Clock Start/From: 10 Clock To: 1 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:

Remarks:

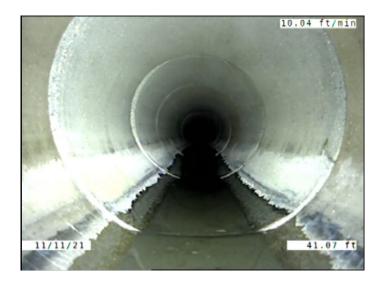
YES



Code: CM Description: **Crack Multiple** Distance (ft): 26.4

Structural Grade: 3 O&M Grade: 0 Clock Start/From: 9 3 Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES

Remarks:



Code: CL

Description: Crack Longitudinal

Distance (ft): 41.1
Structural Grade: 2
O&M Grade: 0
Clock Start/From: 4

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

Within 8" of Joint:

Remarks:

YES



Code: CC

Description: Crack Circumferential

Distance (ft): 42.8
Structural Grade: 1

O&M Grade: 0

Clock Start/From: 1

Clock To: 3

1st Value:

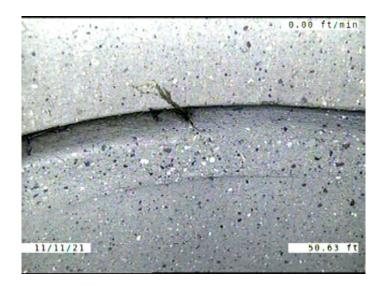
2nd Value:

Value Percent:

Within 8" of Joint: YES

Remarks:

Continuous Index:



Code: RFJ

Description: **Roots Fine Joint** 

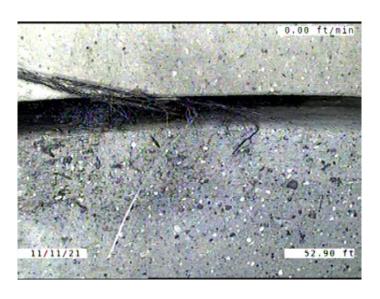
Distance (ft): 50.6 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 10

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

Within 8" of Joint:

Remarks:

YES



Code: RFJ

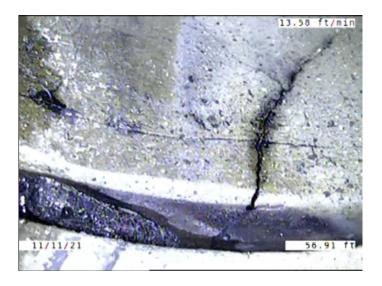
Description: **Roots Fine Joint** 

Distance (ft): 52.9 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 8 9 Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:

Within 8" of Joint:

Remarks:

YES



Code: FΜ Description: **Fracture Multiple** 

Distance (ft): 56.9 Structural Grade: 4 O&M Grade: 0 Clock Start/From: 4 Clock To: 5

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

Within 8" of Joint: YES

Remarks:



Code: CL

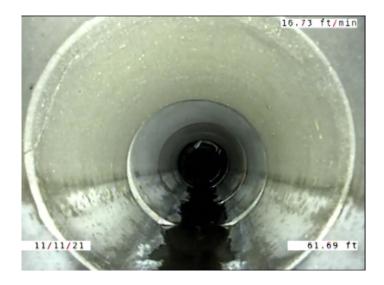
Description: **Crack Longitudinal** 

Distance (ft): 59.8 Structural Grade: 2 O&M Grade: 0 Clock Start/From: 3 Clock To:

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

Within 8" of Joint: YES

Remarks:



Code: CC

Description: **Crack Circumferential** 

Distance (ft): 61.7 Structural Grade: 1 O&M Grade: 0 Clock Start/From: 9 Clock To: 12

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

Within 8" of Joint:

Remarks:

YES



Code: FΜ

Description: **Fracture Multiple** 

70.9 Distance (ft): Structural Grade: 4 O&M Grade: 0 Clock Start/From: 12 2 Clock To: 1st Value:

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks:



Code: TBI

Description: **Tap Break-in Intruding** 

Distance (ft): 72.4 Structural Grade: 0 2 O&M Grade: Clock Start/From: 1

Clock To:

1st Value: 4.000 2.000 2nd Value:

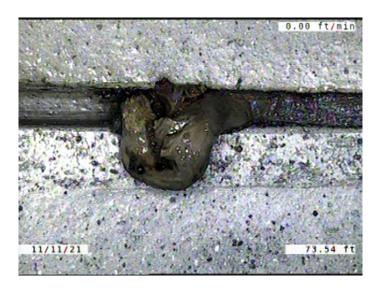
Value Percent:

Continuous Index:

Within 8" of Joint:

Remarks:

YES



RTJ Code:

Description: **Roots Tap Joint** 

Distance (ft): 73.5 Structural Grade: 0 O&M Grade: 2 Clock Start/From: 10 Clock To: 1 1st Value:

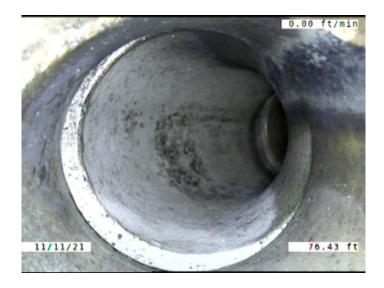
2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:



Code: **TFD** 

Description: Tap Factory Defective

Distance (ft): 76.4
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: Cracked



Code: CC

Description: Crack Circumferential

Distance (ft): 76.4
Structural Grade: 1

O&M Grade: 0

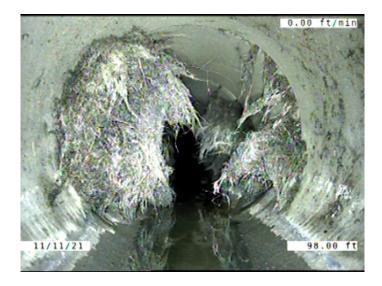
Clock Start/From: 10

Clock To: 2

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

Within 8" of Joint: YES

Remarks:



Code: RMJ

Description: Roots Medium Joint

Distance (ft): 98.0
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 7
Clock To: 4

1st Value: 2nd Value:

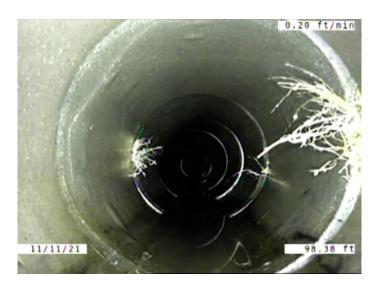
Value Percent: 50.000

Continuous Index:

Within 8" of Joint:

Remarks:

YES



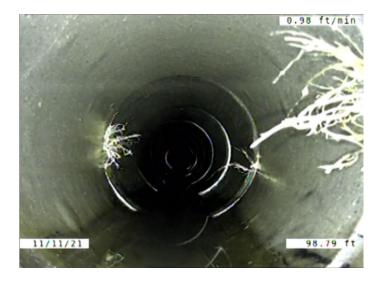
Code: CC

Description: Crack Circumferential

Distance (ft): 98.4
Structural Grade: 1
O&M Grade: 0
Clock Start/From: 9
Clock To: 12
1st Value:
2nd Value:
Value Percent:
Continuous Index:

Within 8" of Joint: YES

Remarks:



Code: CL

Description: **Crack Longitudinal** 

Distance (ft): 98.8 Structural Grade: 2 O&M Grade: 0 Clock Start/From: 4

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

Within 8" of Joint:

Remarks:

YES



Code: RMJ

Description: **Roots Medium Joint** 

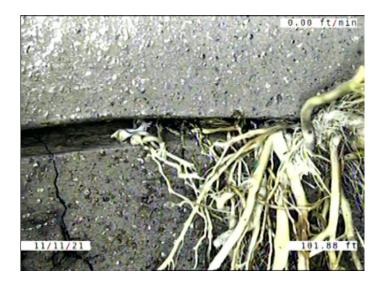
Distance (ft): 99.6 Structural Grade: 0 O&M Grade: 3 Clock Start/From: 1 Clock To: 4 1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:



Code: CL

Description: **Crack Longitudinal** 

Distance (ft): 101.9 Structural Grade: 2 O&M Grade: 0 Clock Start/From: 8

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

Within 8" of Joint:

Remarks:

NO



Code: RMJ

Description: **Roots Medium Joint** 

Distance (ft): 101.9 Structural Grade: 0 O&M Grade: 3 Clock Start/From: 9 Clock To: 10 1st Value:

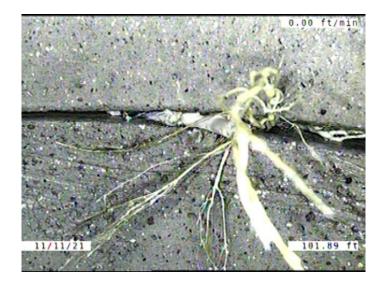
2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:



11/11/21

Code: RFJ

Description: Roots Fine Joint

Distance (ft): 101.9
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 2

Clock To: 3
1st Value:
2nd Value:

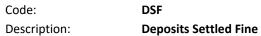
Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks:

0.00 ft/min

103.38 ft



Distance (ft): 103.4
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 5
Clock To: 7

1st Value: 2nd Value:

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

Remarks:



Code: SZ

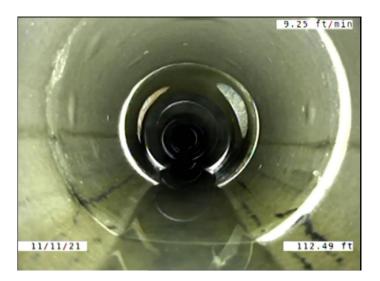
Description: Surface Damage Other

Distance (ft): 105.8
Structural Grade: 0
O&M Grade: 0
Clock Start/From: 9
Clock To: 3

1st Value: 2nd Value: Value Percent:

Continuous Index: **S04**Within 8" of Joint: **NO** 

Remarks: Indentations. Factory defect.



Code: SZ

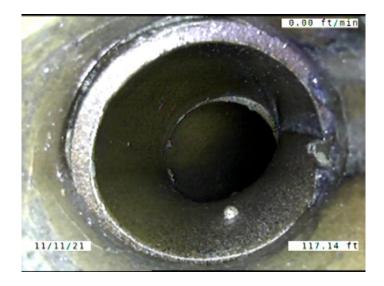
Description: Surface Damage Other

Distance (ft): 112.5
Structural Grade: 0
O&M Grade: 0
Clock Start/From: 9
Clock To: 3
1st Value:

2nd Value: Value Percent:

Continuous Index: F04
Within 8" of Joint: NO

Remarks: Indentations. Factory defect.



Code: **TFD** 

Description: Tap Factory Defective

Distance (ft): 117.1
Structural Grade: 0
O&M Grade: 3
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: SSS

Description: Surface Damage Surface Spalling

Distance (ft): 117.4
Structural Grade: 2
O&M Grade: 0
Clock Start/From: 9
Clock To: 11
1st Value:

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: NO

Remarks:



Code: TBD

Description: Tap Break-in/Hammer Defective

Distance (ft): 117.8
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 10

Clock To:

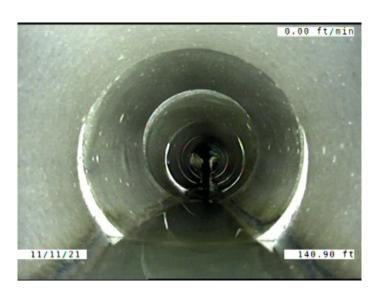
1st Value: **4.000** 

2nd Value: Value Percent: Continuous Index:

Within 8" of Joint: YES

Remarks: ROOTS GROWING FROM THE

CONNECTION



Code: MWLS

Description: Miscellaneous Water Level Sag

Distance (ft): 140.9
Structural Grade: 2
O&M Grade: 0

Clock Start/From:

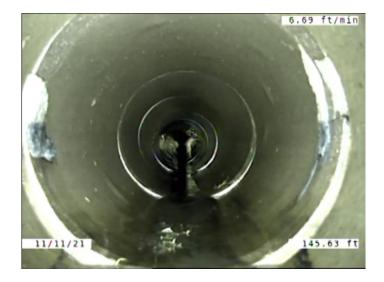
Clock To: 1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: NO

Remarks:



Code: FM

Description: Fracture Multiple

Distance (ft): 145.6
Structural Grade: 4
O&M Grade: 0

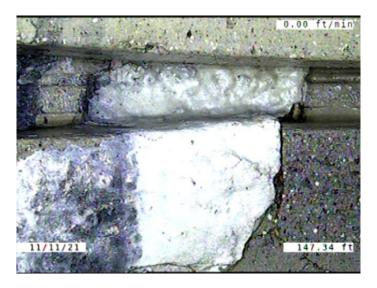
Clock Start/From: 8
Clock To: 4

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

Within 8" of Joint:

Remarks:

YES



Code: DAE

Description: Deposits Attached Encrustation

Distance (ft): 147.3
Structural Grade: 0
O&M Grade: 2
Clock Start/From: 9
Clock To: 10
1st Value:

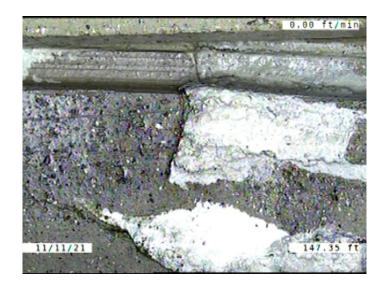
2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:



Code: DAE

Description: **Deposits Attached Encrustation** 

Distance (ft): 147.3 Structural Grade: 0 2 O&M Grade: Clock Start/From: 1 Clock To: 3

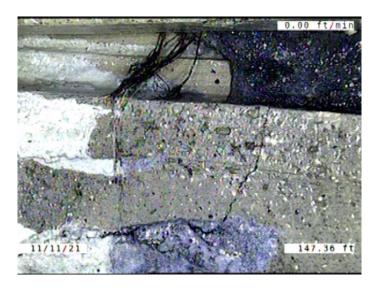
1st Value: 2nd Value:

Value Percent: 5.000

Continuous Index:

Within 8" of Joint: YES

Remarks:



RFJ Code:

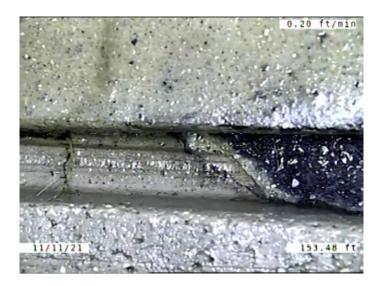
Description: **Roots Fine Joint** 

Distance (ft): 147.4 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 3

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

Within 8" of Joint: YES

Remarks:



Code: CM
Description: Crack Multiple

Distance (ft): 153.5 Structural Grade: 3 O&M Grade: 0 Clock Start/From: 7 Clock To: 5 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES

Remarks:

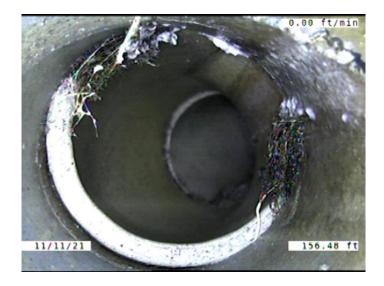
Remarks:



Code: RFJ

Description: Roots Fine Joint

Distance (ft): 153.5 Structural Grade: 0 O&M Grade: 1 Clock Start/From: 9 2 Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES



Code: TF

Description: **Tap Factory** 

Distance (ft): 156.5 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 THROUGH THE** 

**JOINTS** 



Code: RMJ

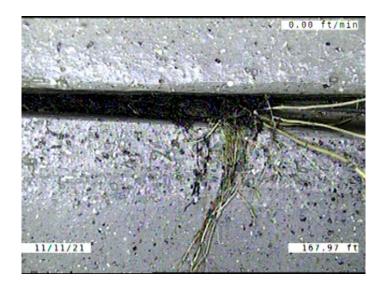
Description: **Roots Medium Joint** 

Distance (ft): 157.5 Structural Grade: 0 O&M Grade: 3 Clock Start/From: 9 3 Clock To:

1st Value: 2nd Value:

Value Percent: 10.000 Continuous Index: **S03** Within 8" of Joint: YES

Remarks:



Code: RFJ

Description: Roots Fine Joint

Distance (ft): 168.0
Structural Grade: 0
O&M Grade: 1
Clock Start/From: 10
Clock To: 11

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

Within 8" of Joint:

Remarks:

YES



Code: RFJ

Description: Roots Fine Joint

Distance (ft): 173.9

Structural Grade: 0

O&M Grade: 1

Clock Start/From: 2

Clock To: 4

1st Value: 2

2nd Value: Value Percent:

Within 8" of Joint:

Continuous Index:

Remarks:

YES



Code: RMJ

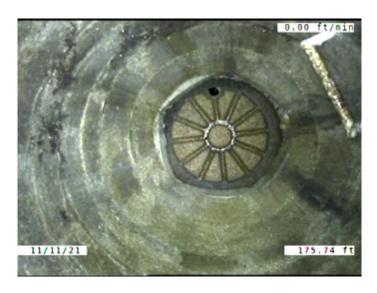
Description: Roots Medium Joint

Distance (ft): 175.2
Structural Grade: 0
O&M Grade: 3
Clock Start/From: 9
Clock To: 3

1st Value: 2nd Value:

Value Percent: 10.000
Continuous Index: F03
Within 8" of Joint: YES

Remarks:



Code: AMH
Description: Manhole

Distance (ft): 175.7
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: M-605-023