

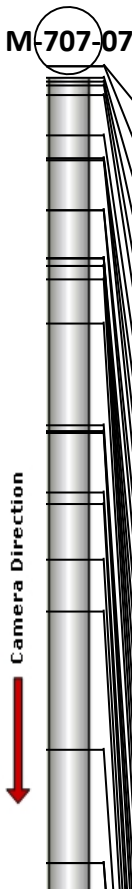
Profile/Photo Observation Report



| | | | | | |
|-------------------|----------------|-------------|----------------|------------|----------------|
| Date: | 02/17/2022 | Weather: | | Coding: | PACP 7.0 |
| Pipe Length (ft): | 224.3 | Owner: | City of Hobart | Pre Clean: | Heavy Cleaning |
| P.O.#: | YES502259 | Surveyor: | S. Bucklin | PSR: | P-707-072-071 |
| Customer: | City of Hobart | Clean Date: | 02/14/2022 | Shape: | C |

| | | | |
|-------------------|---|-----------------------------|----------------|
| Street: | East 11th Place | Flow Control: | Not Controlled |
| City: | Hobart, IN | Year Renewed: | |
| Location: | Local rural streets with light traffic, t | Tape/Media #: | |
| Purpose: | Routine Assessment | Dia/Height: | 10" |
| Use: | Sanitary Sewage Pipe | Material: | CP |
| Drain Area: | | Lining: | None |
| Category: | NA | | |
| Comment: | | | |
| Location Details: | | Direction of Survey: | Upstream |
| US MH: | M-707-072 | DS MH: | M-707-071 |
| | | Total Length Surveyed (ft): | 224.3 |

| | | | | | |
|-------------------|------|-------------------|------|--------------------|--------|
| O&M Index: | 1.27 | O&M Quick: | 4133 | O&M Rating: | 65.00 |
| Structural Index: | 2.97 | Structural Quick: | 534D | Structural Rating: | 199.00 |
| Overall Index: | 2.24 | Overall Quick: | 534D | Overall Rating: | 264.00 |

| Position | Code | Observation | Video (sec) | Grade |
|---|-----------|-----------------------------------|-------------|-------|
|  | | | | |
| .0 | AMH | Manhole | 1 | NA |
| .0 | MWL | Miscellaneous Water Level | 10 | NA |
| 1.5 | MGO | Miscellaneous General Observation | 18 | NA |
| 2.0 | CS | Crack Spiral | 45 | S 2 |
| 2.3 | JOM(S01) | Joint Offset Medium | 65 | S 3 |
| 4.4 | MWLS(S02) | Miscellaneous Water Level Sag | 91 | S 2 |
| 8.5 | RFJ | Roots Fine Joint | 132 | M 1 |
| 11.3 | JOMD | Joint Offset Medium Defective | 165 | S 3 |
| 11.3 | CL | Crack Longitudinal | 177 | S 2 |
| 11.6 | IWB | Infiltration Weeper Barrel | 226 | M 2 |
| 17.8 | RFJ | Roots Fine Joint | 359 | M 1 |
| 17.8 | MMC | Miscellaneous Material Change | 373 | NA |
| 23.8 | RFJ(S03) | Roots Fine Joint | 477 | M 1 |
| 23.8 | JOM(F01) | Joint Offset Medium | 501 | S 3 |
| 23.8 | MWLS(F02) | Miscellaneous Water Level Sag | 509 | S 2 |
| 24.8 | CM | Crack Multiple | 575 | S 3 |
| 24.8 | RFB | Roots Fine Barrel | 585 | M 2 |
| 26.5 | MWLS(S04) | Miscellaneous Water Level Sag | 610 | S 2 |
| 32.5 | RMJ | Roots Medium Joint | 660 | M 3 |

| | | | | |
|-------|-----------|--------------------------------|------|-----|
| 44.5 | RMJ | Roots Medium Joint | 759 | M 3 |
| 45.3 | RTC | Roots Tap Connection | 801 | M 2 |
| 45.4 | TB | Tap Break-in/Hammer | 817 | NA |
| 52.9 | MWLS(F04) | Miscellaneous Water Level Sag | 873 | S 2 |
| 54.2 | MWLS(S05) | Miscellaneous Water Level Sag | 891 | S 2 |
| 61.1 | CL | Crack Longitudinal | 934 | S 2 |
| 67.5 | MWLS(F05) | Miscellaneous Water Level Sag | 968 | S 2 |
| 84.7 | TBI | Tap Break-in Intruding | 1080 | M 2 |
| 98.7 | SMW | Surface Damage Missing Wall | 1206 | S 5 |
| 98.7 | B(S06) | Broken | 1265 | S 4 |
| 131.1 | MWLS(S07) | Miscellaneous Water Level Sag | 1430 | S 2 |
| 134.6 | SMW | Surface Damage Missing Wall | 1491 | S 5 |
| 137.6 | SMW | Surface Damage Missing Wall | 1528 | S 5 |
| 151.0 | MWLS(F07) | Miscellaneous Water Level Sag | 1630 | S 2 |
| 153.4 | MWLS(S08) | Miscellaneous Water Level Sag | 1659 | S 2 |
| 158.7 | IRC | Infiltration Runner Connection | 1718 | M 4 |
| 159.2 | TBI | Tap Break-in Intruding | 1754 | M 2 |
| 221.5 | RMJ | Roots Medium Joint | 2198 | M 3 |
| 224.1 | B(F06) | Broken | 2278 | S 4 |
| 224.1 | RFJ(F03) | Roots Fine Joint | 2287 | M 1 |
| 224.1 | MWLS(F08) | Miscellaneous Water Level Sag | 2294 | S 2 |
| 224.3 | AMH | Manhole | 2332 | NA |

M-707-072



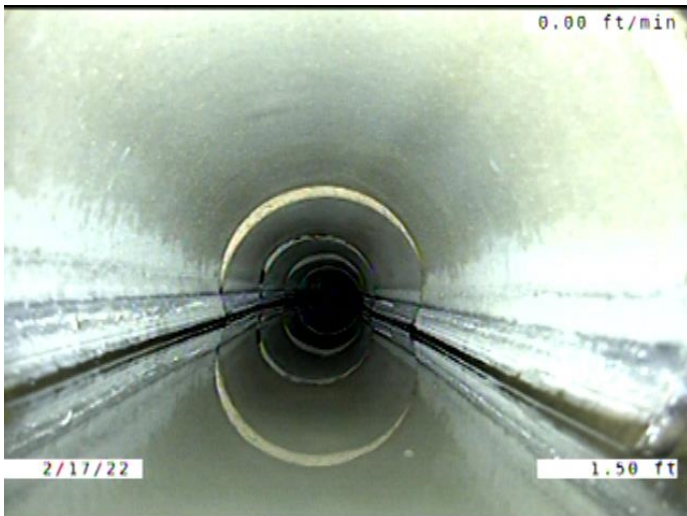
Code: **AMH**
Description: **Manhole**

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-707-071**



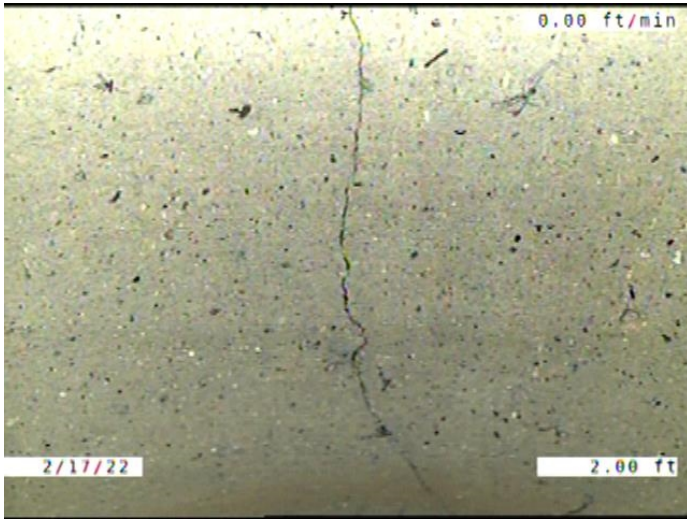
Code: **MWL**
 Description: **Miscellaneous Water Level**

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



Code: **MGO**
 Description: **Miscellaneous General Observation**

Distance (ft): **1.5**
 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: **TIGHT ACCESS IN THE MANHOLE DUE TO ROOTS. ALSO PIPE IS BROKEN AT**



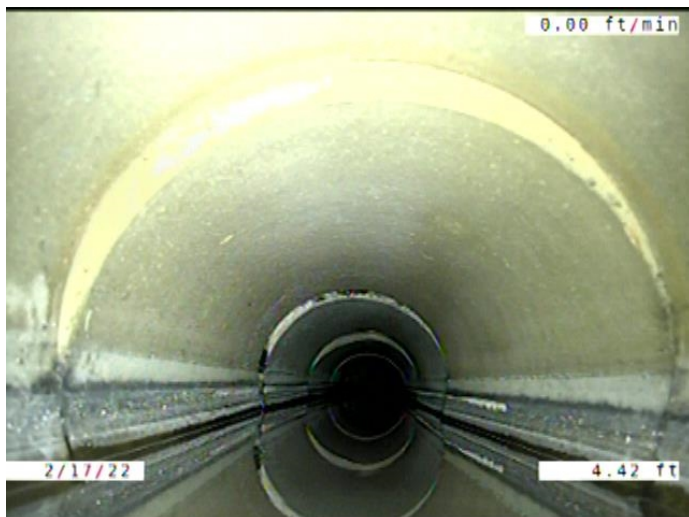
Code: **CS**
Description: **Crack Spiral**

Distance (ft): **2.0**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **11**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



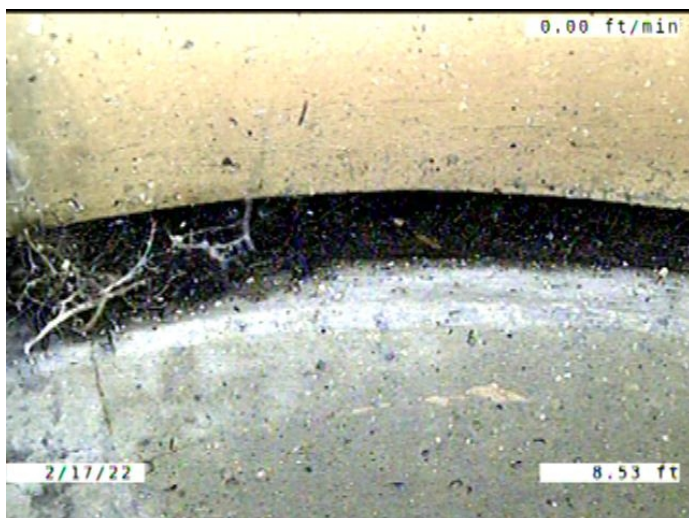
Code: **JOM**
Description: **Joint Offset Medium**

Distance (ft): **2.3**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S01**
Within 8" of Joint: **NO**
Remarks:



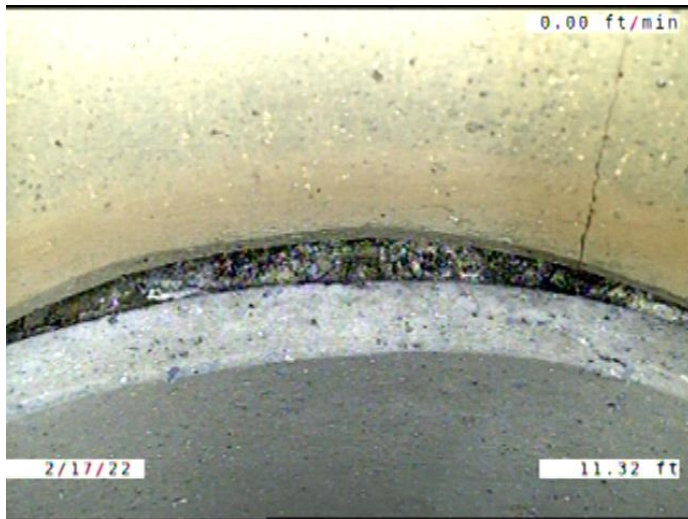
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **4.4**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **20.000**
 Continuous Index: **S02**
 Within 8" of Joint: **NO**
 Remarks:



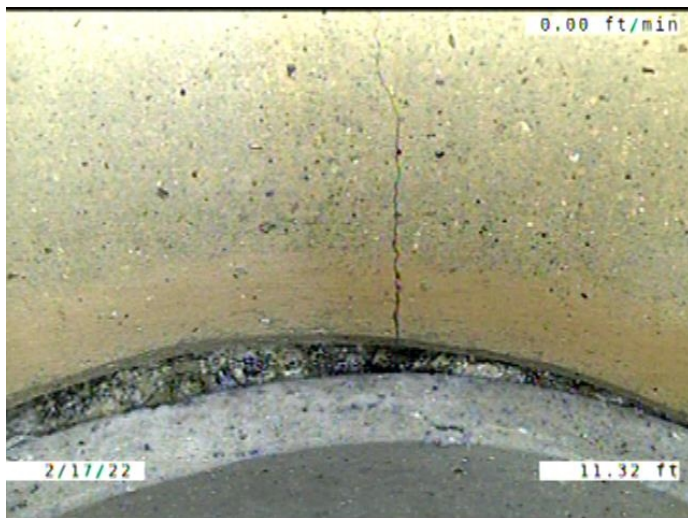
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **8.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



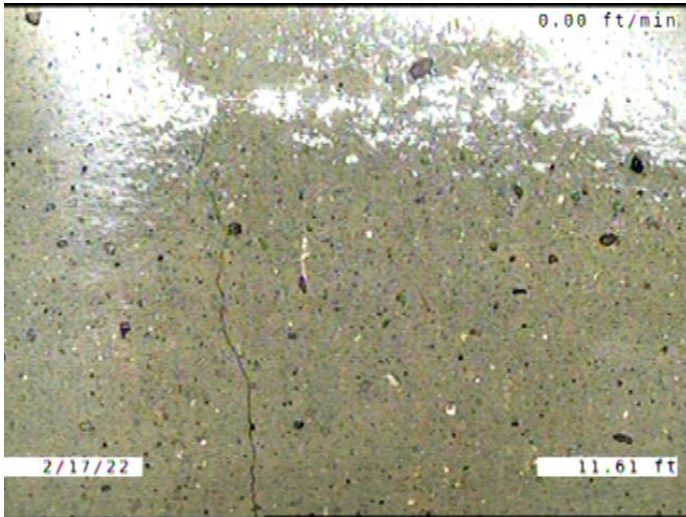
Code: **JOMD**
 Description: **Joint Offset Medium Defective**

Distance (ft): **11.3**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



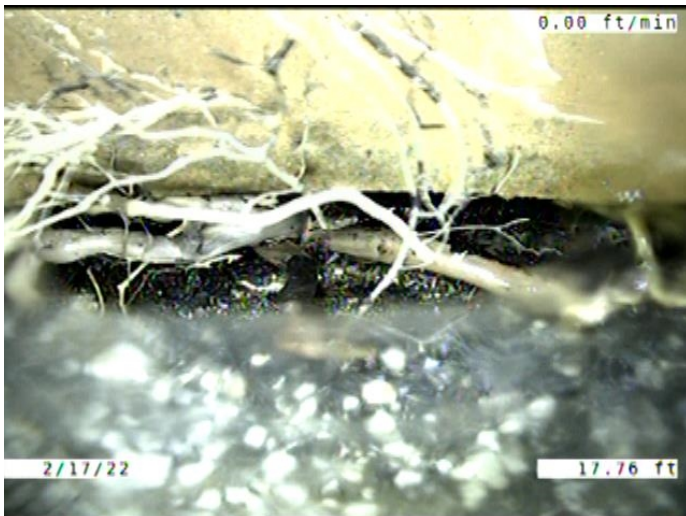
Code: **CL**
 Description: **Crack Longitudinal**

Distance (ft): **11.3**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



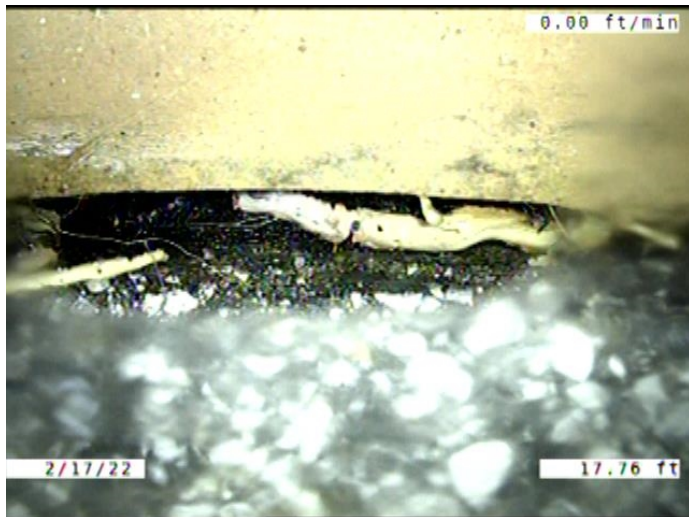
Code: **IWB**
 Description: **Infiltration Weeper Barrel**

Distance (ft): **11.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



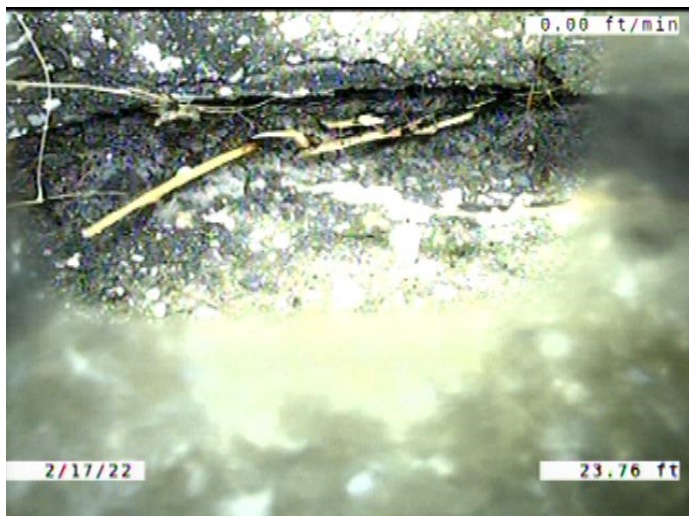
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **17.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



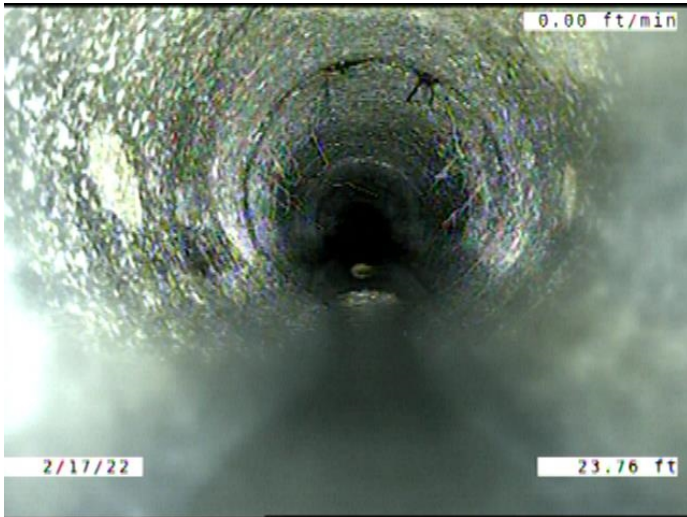
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **17.8**
 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**



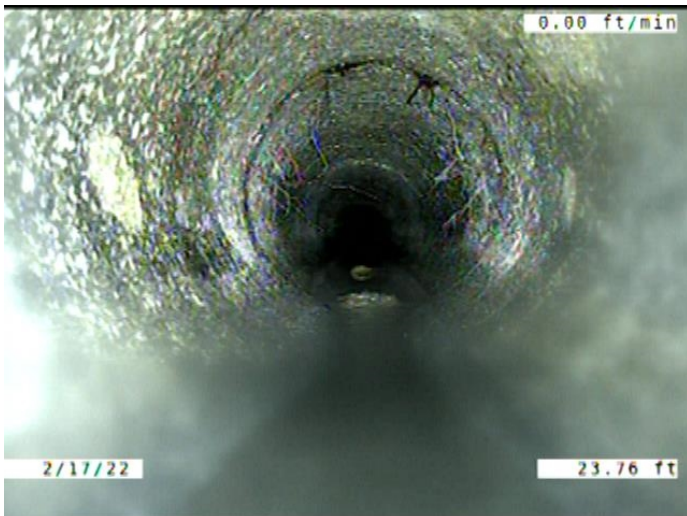
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **23.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S03**
 Within 8" of Joint: **YES**
 Remarks:



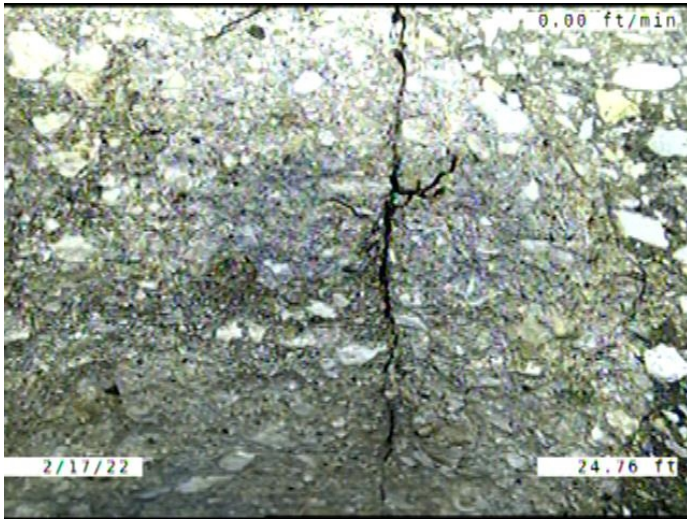
Code: **JOM**
Description: **Joint Offset Medium**

Distance (ft): **23.8**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F01**
Within 8" of Joint: **NO**
Remarks:



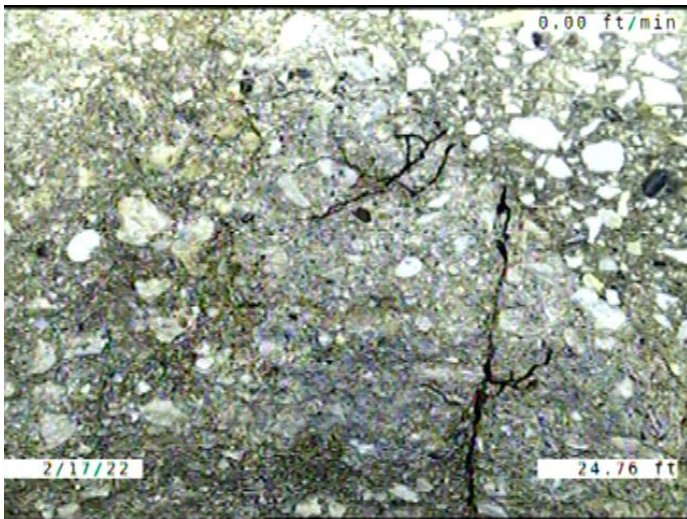
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **23.8**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **20.000**
Continuous Index: **F02**
Within 8" of Joint: **NO**
Remarks:



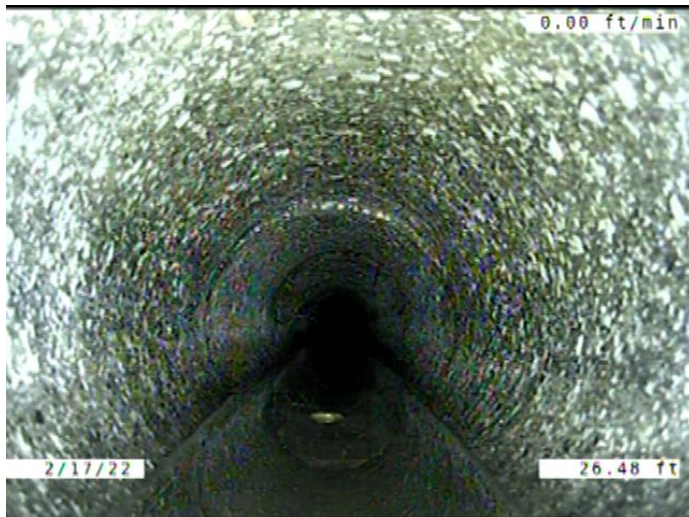
Code: **CM**
Description: **Crack Multiple**

Distance (ft): **24.8**
Structural Grade: **3**
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:



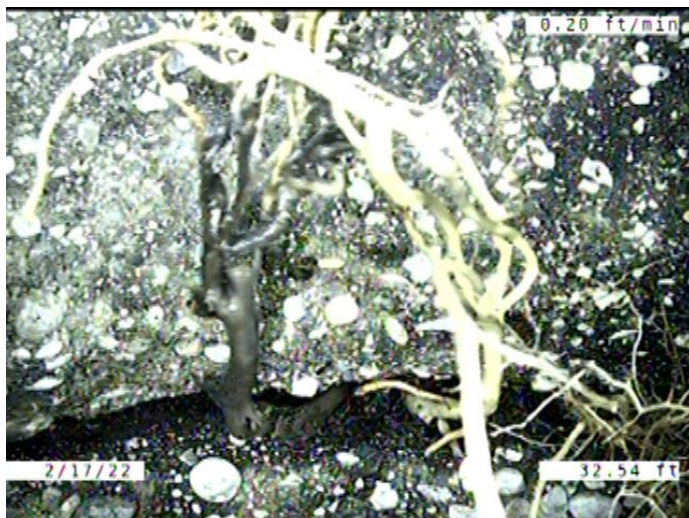
Code: **RFB**
Description: **Roots Fine Barrel**

Distance (ft): **24.8**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **10**
Clock To: **2**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



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

Distance (ft): **26.5**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **S04**
 Within 8" of Joint: **NO**
 Remarks:



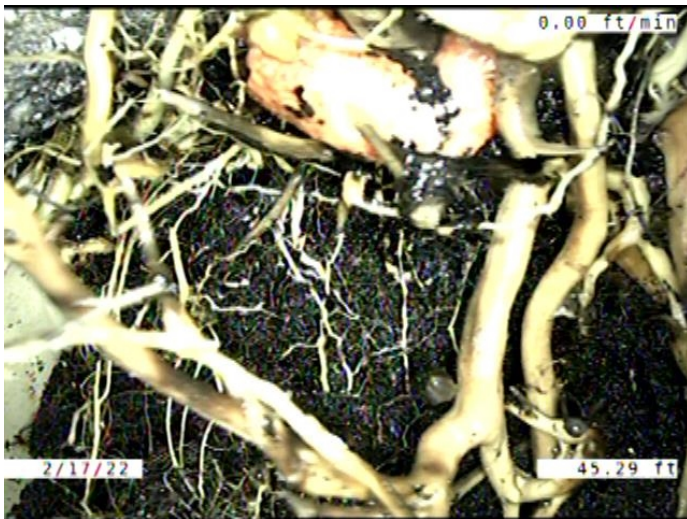
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **32.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



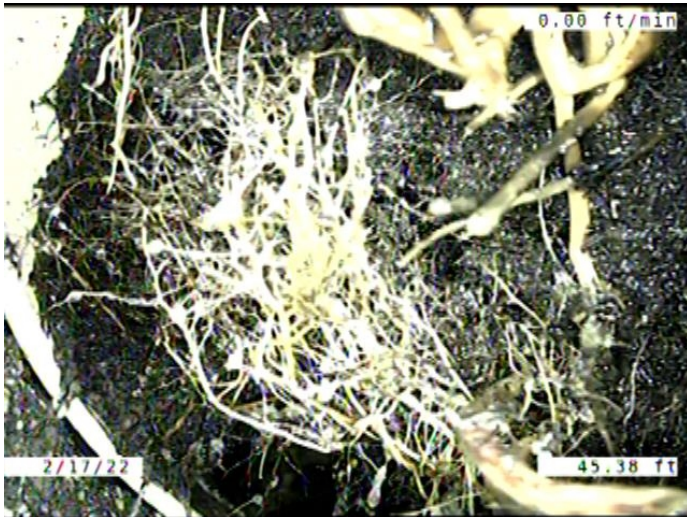
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **44.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **10**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent: **20.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



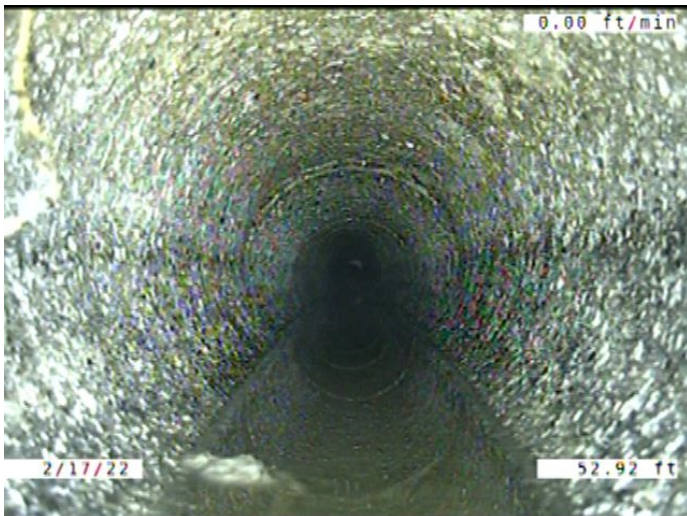
Code: **RTC**
 Description: **Roots Tap Connection**

Distance (ft): **45.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **10**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



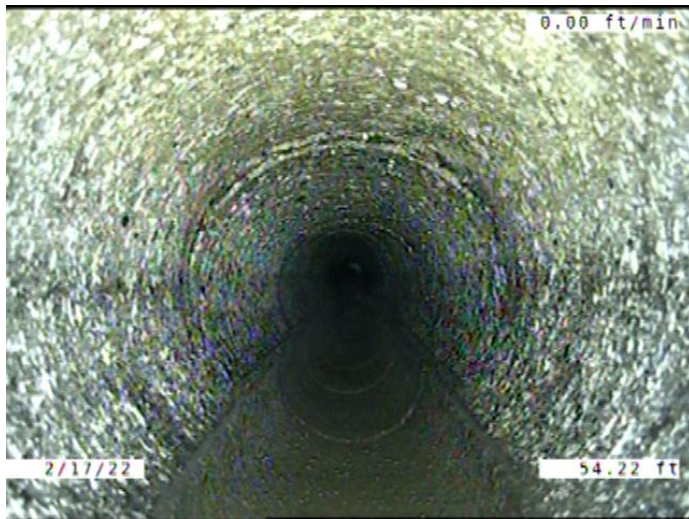
Code: **TB**
 Description: **Tap Break-in/Hammer**

Distance (ft): **45.4**
 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: **CONSTANTLY RUNNING WATER.**



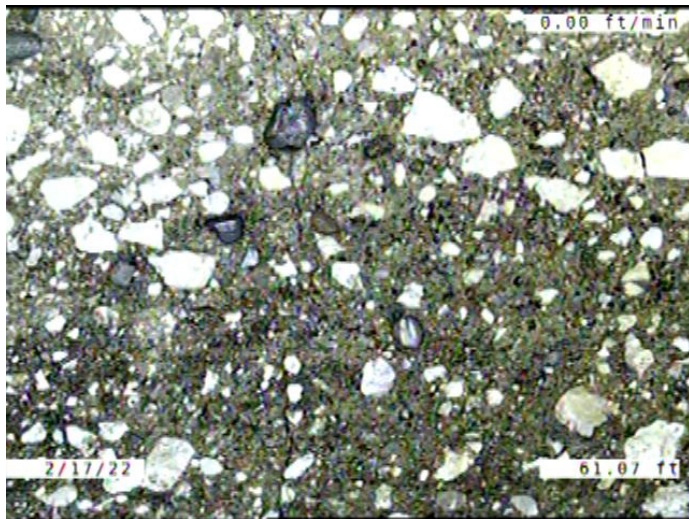
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **52.9**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **F04**
 Within 8" of Joint: **NO**
 Remarks:



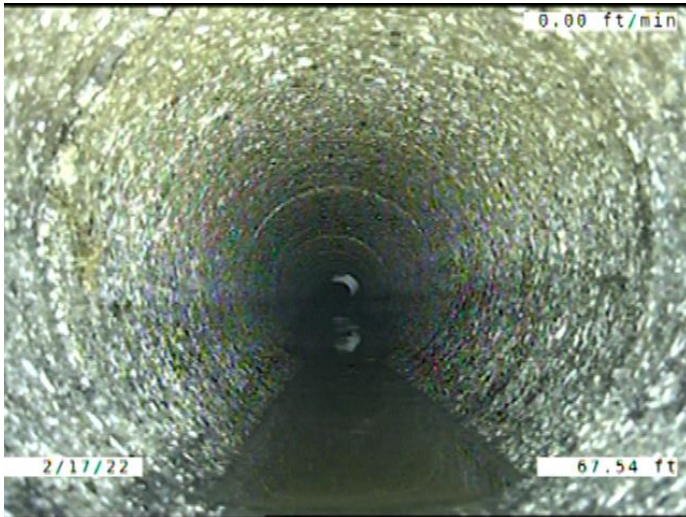
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **54.2**
 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:

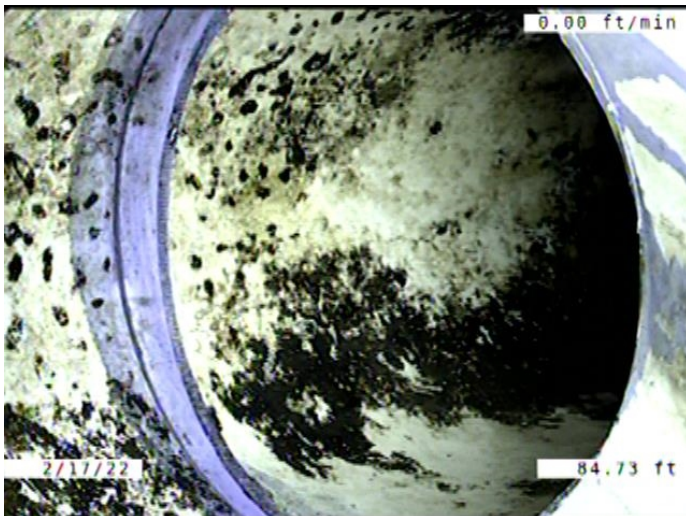


Code: **CL**
 Description: **Crack Longitudinal**

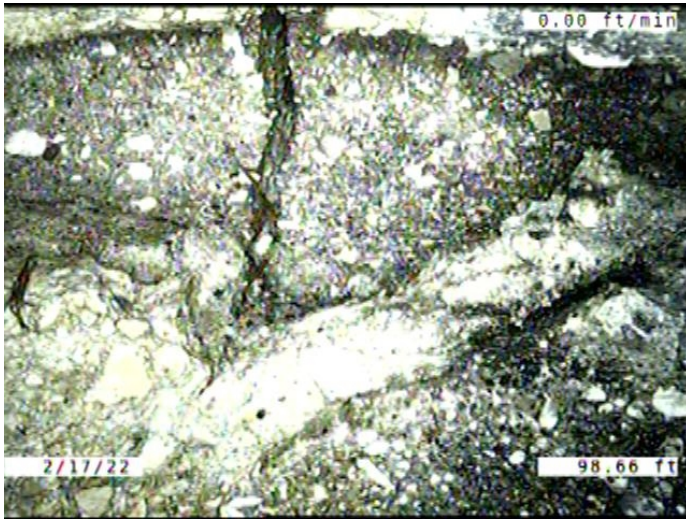
Distance (ft): **61.1**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **11**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



| | |
|---------------------|--------------------------------------|
| Code: | MWLS |
| Description: | Miscellaneous Water Level Sag |
| Distance (ft): | 67.5 |
| 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: | |

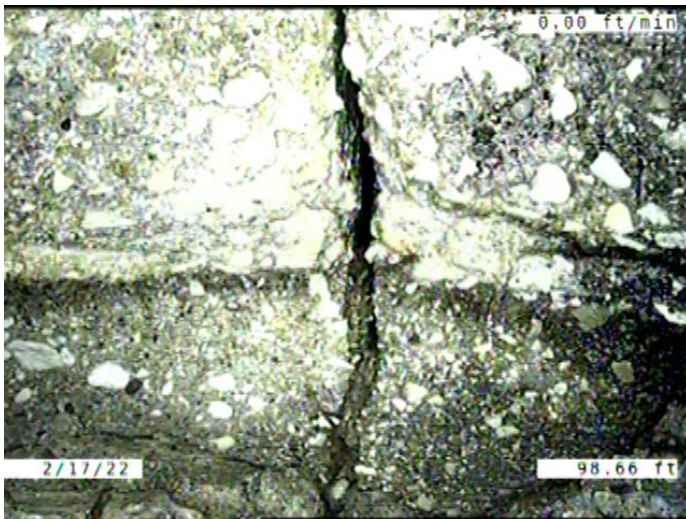


| | |
|---------------------|-------------------------------|
| Code: | TBI |
| Description: | Tap Break-in Intruding |
| Distance (ft): | 84.7 |
| Structural Grade: | 0 |
| O&M Grade: | 2 |
| Clock Start/From: | 2 |
| Clock To: | |
| 1st Value: | 4.000 |
| 2nd Value: | 3.000 |
| Value Percent: | |
| Continuous Index: | |
| Within 8" of Joint: | NO |
| Remarks: | |



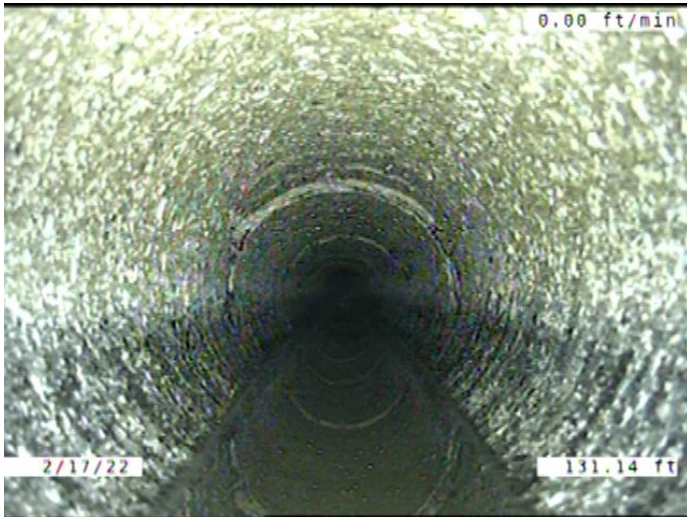
Code: **SMW**
 Description: **Surface Damage Missing Wall**

Distance (ft): **98.7**
 Structural Grade: **5**
 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:

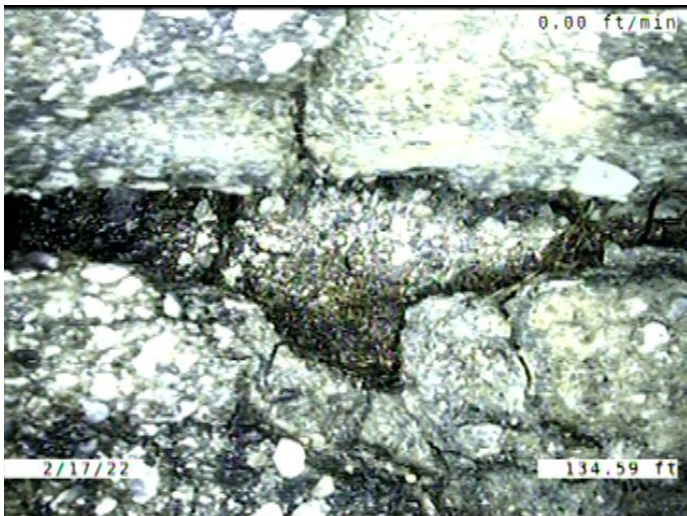


Code: **B**
 Description: **Broken**

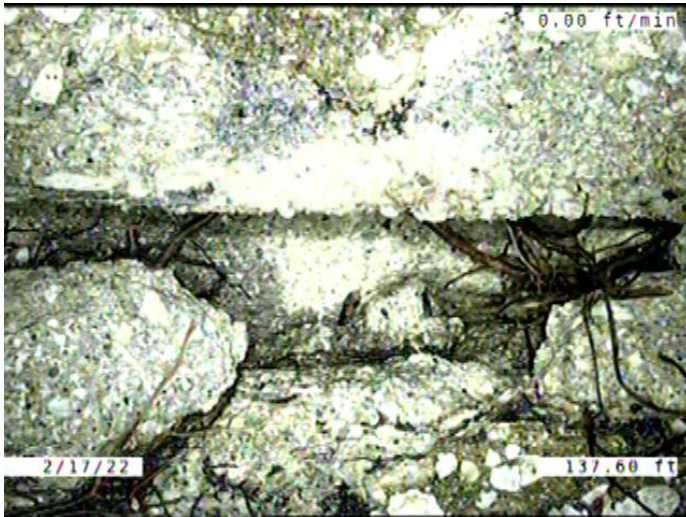
Distance (ft): **98.7**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S06**
 Within 8" of Joint: **YES**
 Remarks:



| | |
|---------------------|--------------------------------------|
| Code: | MWLS |
| Description: | Miscellaneous Water Level Sag |
| Distance (ft): | 131.1 |
| Structural Grade: | 2 |
| O&M Grade: | 0 |
| Clock Start/From: | |
| Clock To: | |
| 1st Value: | |
| 2nd Value: | |
| Value Percent: | 15.000 |
| Continuous Index: | S07 |
| Within 8" of Joint: | NO |
| Remarks: | |



| | |
|---------------------|------------------------------------|
| Code: | SMW |
| Description: | Surface Damage Missing Wall |
| Distance (ft): | 134.6 |
| Structural Grade: | 5 |
| O&M Grade: | 0 |
| Clock Start/From: | 8 |
| Clock To: | 10 |
| 1st Value: | |
| 2nd Value: | |
| Value Percent: | |
| Continuous Index: | |
| Within 8" of Joint: | YES |
| Remarks: | |



Code: **SMW**
 Description: **Surface Damage Missing Wall**

Distance (ft): **137.6**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **10**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



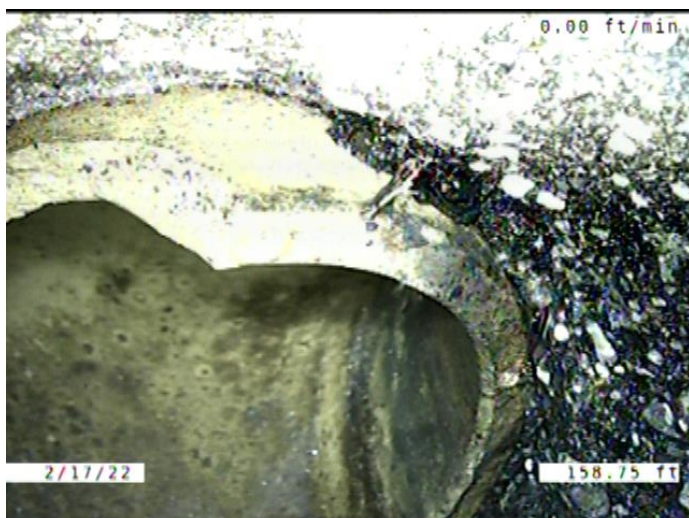
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **151.0**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **F07**
 Within 8" of Joint: **NO**
 Remarks:



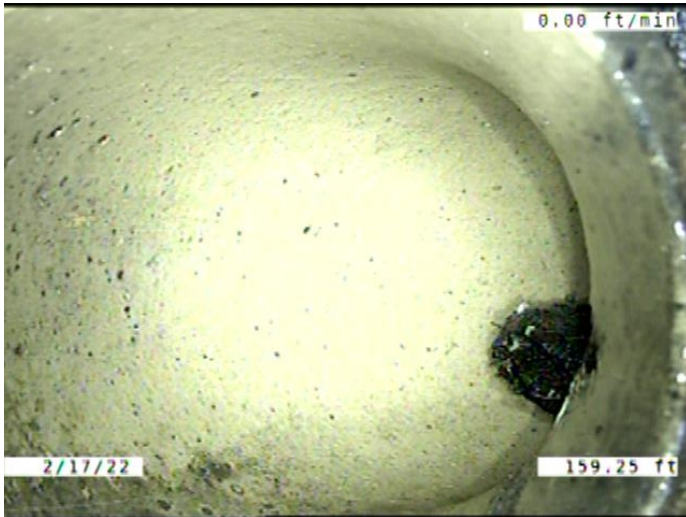
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **153.4**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **20.000**
 Continuous Index: **S08**
 Within 8" of Joint: **NO**
 Remarks:



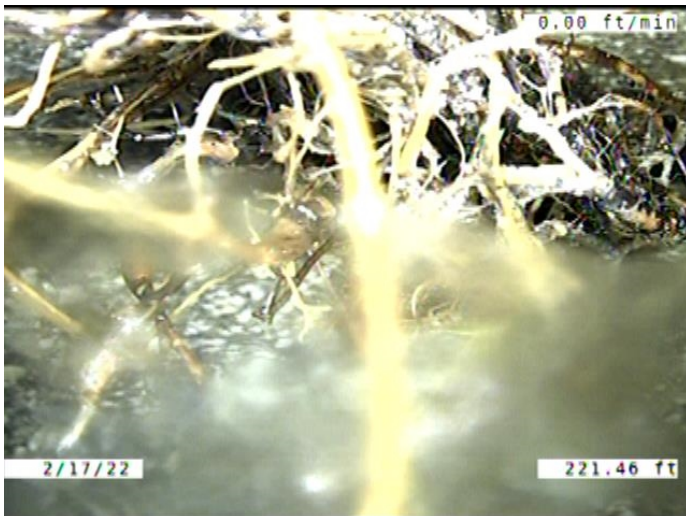
Code: **IRC**
 Description: **Infiltration Runner Connection**

Distance (ft): **158.7**
 Structural Grade: **0**
 O&M Grade: **4**
 Clock Start/From: **1**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



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

Distance (ft): **159.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value: **6.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



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

Distance (ft): **221.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **8**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **B**
Description: **Broken**

Distance (ft): **224.1**
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:



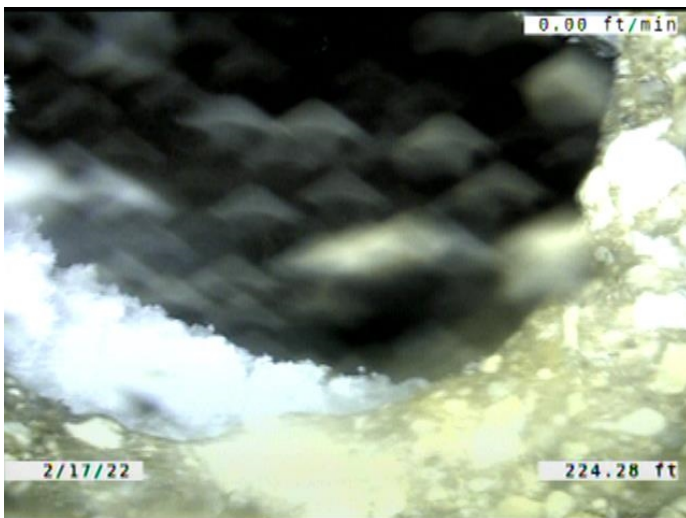
Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **224.1**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **9**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F03**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **224.1**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **20.000**
 Continuous Index: **F08**
 Within 8" of Joint: **NO**
 Remarks:



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

Distance (ft): **224.3**
 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: **M-707-072**