

### Project Information

|                               |               |                           |                                |
|-------------------------------|---------------|---------------------------|--------------------------------|
| <b>Surveyor Name</b>          | BUENO_R       | <b>Certificate Number</b> | P0043820-082023                |
| <b>Owner</b>                  |               | <b>Customer</b>           | RIVERBEND OF NAPLES MOBILE HOA |
| <b>Drainage Area</b>          |               | <b>PO Number</b>          | 231753                         |
| <b>Pipe Segment Reference</b> | MH-3 - MH-4B  | <b>Date</b>               | 11/30/2023 15:01               |
| <b>Street</b>                 | WALKERBILT RD | <b>City</b>               | NAPLES                         |
| <b>Comments</b>               |               |                           |                                |

### Manhole

|                            |          |                            |            |
|----------------------------|----------|----------------------------|------------|
| <b>Upstream MH</b>         | 3        | <b>Rim to Invert (U)</b>   |            |
| <b>Grade to Invert (U)</b> |          | <b>Rim to Grade (U)</b>    |            |
| <b>Downstream MH</b>       | 4B       | <b>Rim to Invert (D)</b>   |            |
| <b>Grade to Invert (D)</b> |          | <b>Rim to Grade (D)</b>    |            |
| <b>Sewer Use</b>           | Sanitary | <b>Direction of Survey</b> | Downstream |

### Pipe

|                          |          |                          |                     |
|--------------------------|----------|--------------------------|---------------------|
| <b>Height (Diameter)</b> | 6        | <b>Width</b>             |                     |
| <b>Shape</b>             | Circular | <b>Material</b>          | Vitrified Clay Pipe |
| <b>Lining Method</b>     |          | <b>Pipe Joint Length</b> |                     |
| <b>Total Length</b>      |          | <b>Length Surveyed</b>   | 198.8               |
| <b>Year Laid</b>         |          | <b>Year Renewed</b>      |                     |

### Misc

|                     |                    |                       |                               |
|---------------------|--------------------|-----------------------|-------------------------------|
| <b>Flow Control</b> | Not Controlled     | <b>Media Label</b>    | DVD                           |
| <b>Purpose</b>      | Routine Assessment | <b>Sewer Category</b> |                               |
| <b>Pre-Cleaning</b> | Jetting            | <b>Date Cleaned</b>   | 11/30/2023 14:59              |
| <b>Weather</b>      | Dry                | <b>Location Code</b>  | Main Highway - Suburban/Rural |

**Additional Info** **Location Details**

### Custom

|                               |  |  |  |
|-------------------------------|--|--|--|
| <b>Number of Taps</b>         |  | <b>Number of Roots</b>                     |  |
| <b>Num Cracks / Fractures</b> |  | <b>Number of Broken / Holes / Collapse</b> |  |
| <b>Number of Deposits</b>     |  | <b>Custom6</b>                             |  |
| <b>Custom7</b>                |  | <b>Struct Grade</b>                        |  |
| <b>OM Grade</b>               |  | <b>Overall Grade</b>                       |  |

### Pacp 6




|                            |      |                             |   |
|----------------------------|------|-----------------------------|---|
| <b>Reverse Setup ID</b>    |      | <b>Sheet (Group) Number</b> |   |
| <b>Imperial Units (US)</b> | True | <b>Pressure Value</b>       |   |
| <b>Work Order</b>          |      | <b>Project</b>              | RIVERBEND OF NAPLES SANITARY 11.30.2023 |
|                            |      | <b>Completed</b>            | Yes                                     |

# Project: RIVERBEND OF NAPLES SANITARY




## 11.30.2023

**Date:** 11/30/2023 3:01:00 PM  
**Street:** WALKERBILT RD  
**Length Surveyed:** 198.8  
**Pacp Quick Overall Rating:** 5432  
**Height (Diameter):** 6  
**Street:** WALKERBILT RD




**Pipe Segment Reference:** MH-3 - MH-4B  
**Upstream MH:** 3  
**Downstream MH:** 4B  
**Direction of Survey:** Downstream  
**Material:** Vitrified Clay Pipe


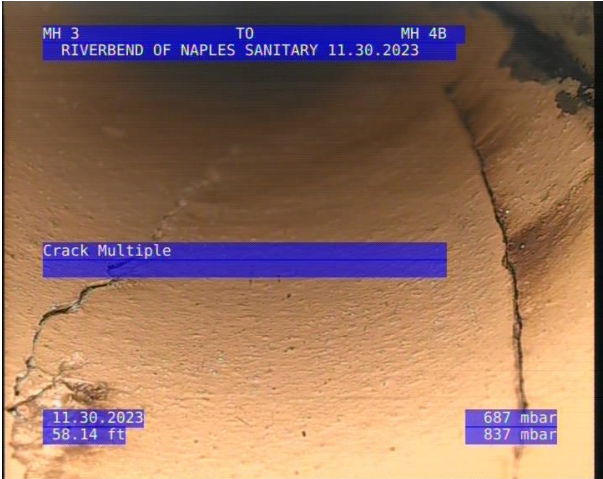

| Distance | Fault Observation  | Time  | Picture   |
|----------|--|-------|---|
| 0.0      | <b>Manhole</b><br><b>Severity: None</b><br><b>Remarks: 3</b>   | 21    |  <p>                     MH 3 TO MH 4B<br/>                     RIVERBEND OF NAPLES SANITARY 11.30.2023<br/>                     11.30.2023 0.00 ft<br/>                     685 mbar 812 mbar                 </p>                                       |
| 0.0      | <b>Water Level</b><br><b>Severity: None</b><br><b>Percent: 5</b>                                     | 30    |  <p>                     MH 3 TO MH 4B<br/>                     RIVERBEND OF NAPLES SANITARY 11.30.2023<br/>                     Water Level<br/>                     11.30.2023 0.00 ft<br/>                     685 mbar 811 mbar                 </p> |
| 0.0      | <b>Crack Longitudinal</b><br><b>Position: 12</b><br><b>Severity: None</b><br><b>Struct Weight: 2</b> | 05:37 |  <p>                     MH 3 TO MH 4B<br/>                     RIVERBEND OF NAPLES SANITARY 11.30.2023<br/>                     11.30.2023 24.48 ft<br/>                     686 mbar 824 mbar                 </p>                                    |




| Distance | Fault Observation   | Time  | Picture |
|----------|---|-------|---------|
| 4.9      | <p><b>Crack Longitudinal</b><br/> <b>Position: 11</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 02:03 |         |
| 23.4     | <p><b>Crack Longitudinal</b><br/> <b>Position: 1</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>  | 03:49 |         |
| 24.2     | <p><b>Tap Factory</b><br/> <b>Position: 12</b><br/> <b>Severity: None</b><br/> <b>Size: 6</b></p>                 | 04:15 |         |

| Distance | Fault Observation   | Time  | Picture  |
|----------|---|-------|--|
| 24.5     | <p><b>Crack Longitudinal</b><br/> <b>Position: 1</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>                              | 05:09 |     |
| 29.9     | <p><b>Fracture Circumferential</b><br/> <b>Position: 3 To 9</b><br/> <b>Severity: None</b><br/> <b>Joint</b><br/> <b>Struct Weight: 2</b></p> | 10:06 |   |
| 33.7     | <p><b>Water Level Sag</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: S01</b><br/> <b>Percent: 5</b><br/> <b>Struct Weight: 2</b></p>     | 11:25 |  |




| Distance | Fault Observation   | Time  | Picture |
|----------|---|-------|---------|
| 42.6     | <p><b>Water Level Sag</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: F01</b><br/> <b>Percent: 5</b><br/> <b>Struct Weight: 2</b></p> | 12:05 |         |
| 50.1     | <p><b>Crack Longitudinal</b><br/> <b>Position: 8</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>                          | 14:58 |         |
| 50.3     | <p><b>Crack Longitudinal</b><br/> <b>Position: 5</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>                          | 13:08 |         |




| Distance | Fault Observation  | Time  | Picture   |
|----------|--|-------|---|
| 51.6     | <p><b>Crack Longitudinal</b><br/> <b>Position: 4</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 15:44 |  <p>MH 3 TO MH 4B<br/>RIVERBEND OF NAPLES SANITARY 11.30.2023</p> <p>11.30.2023 51.55 ft</p> <p>688 mbar<br/>844 mbar</p>    |
| 54.4     | <p><b>Broken</b><br/> <b>Position: 9 To 12</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 5</b></p>       | 17:36 |  <p>MH 3 TO MH 4B<br/>RIVERBEND OF NAPLES SANITARY 11.30.2023</p> <p>11.30.2023 54.41 ft</p> <p>687 mbar<br/>848 mbar</p>  |
| 54.8     | <p><b>Tap Factory</b><br/> <b>Position: 10</b><br/> <b>Severity: None</b><br/> <b>Size: 6</b></p>                | 18:09 |  <p>MH 3 TO MH 4B<br/>RIVERBEND OF NAPLES SANITARY 11.30.2023</p> <p>11.30.2023 54.75 ft</p> <p>687 mbar<br/>849 mbar</p> |

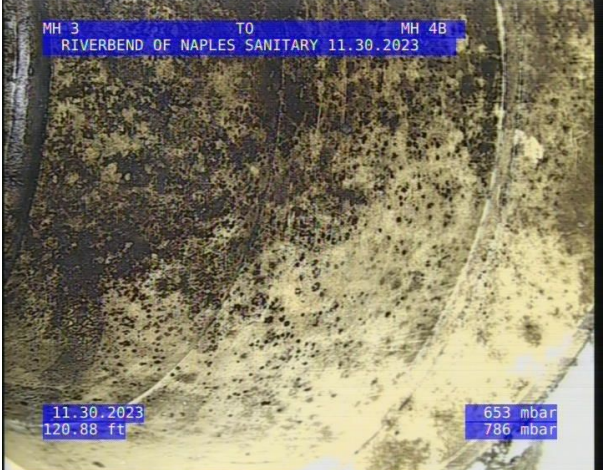


| Distance | Fault Observation  | Time  | Picture  |
|----------|--|-------|--|
| 57.9     | <p align="center"><b>Broken</b><br/> <b>Position: 12 To 12</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 5</b></p>       | 20:46 |     |
| 58.1     | <p align="center"><b>Crack Multiple</b><br/> <b>Position: 7 To 9</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 3</b></p> | 21:32 |   |
| 62.7     | <p align="center"><b>Material Change</b><br/> <b>Severity: None</b><br/> <b>Remarks: PVC</b></p>                                 | 23:14 |  |

| Distance | Fault Observation  | Time  | Picture  |
|----------|--|-------|--|
| 63.8     | <p><b>Water Level Sag</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: S02</b><br/> <b>Percent: 10</b><br/> <b>Struct Weight: 2</b></p> | 23:41 |     |
| 64.6     | <p><b>Tap Factory</b><br/> <b>Position: 12</b><br/> <b>Severity: None</b><br/> <b>Size: 6</b></p>  | 24:12 |   |
| 68.2     | <p><b>Joint Offset Large</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>   | 25:11 |  |



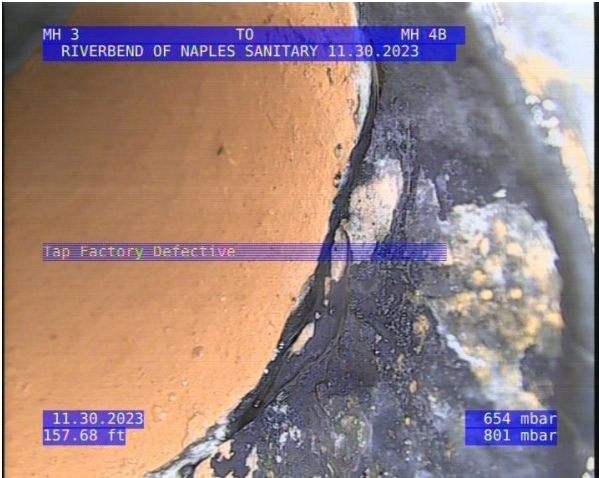





| Distance | Fault Observation  | Time  | Picture  |
|----------|--|-------|--|
| 69.0     | <p><b>Broken Soil Visible</b><br/> <b>Position: 12 To 11</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 5</b></p>                   | 26:24 |     |
| 75.8     | <p><b>Material Change</b><br/> <b>Severity: None</b><br/> <b>Remarks: VCP</b></p>  | 29:49 |   |
| 75.8     | <p><b>Water Level Sag</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: F02</b><br/> <b>Percent: 10</b><br/> <b>Struct Weight: 2</b></p> | 30:00 |  |


| Distance | Fault Observation  | Time  | Picture  |
|----------|--|-------|--|
| 86.9     | <p><b>Crack Longitudinal</b><br/> <b>Position: 8</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 31:16 |     |
| 87.0     | <p><b>Crack Longitudinal</b><br/> <b>Position: 5</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 31:53 |   |
| 111.3    | <p><b>Crack Longitudinal</b><br/> <b>Position: 8</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 35:01 |  |

| Distance | Fault Observation  | Time  | Picture  |
|----------|--|-------|--|
| 120.9    | <p style="text-align: center;"><b>Tap Factory<br/>Position: 12<br/>Severity: None<br/>Size: 6</b></p>                | 35:48 |     |
| 126.3    | <p style="text-align: center;"><b>Crack Longitudinal<br/>Position: 5<br/>Severity: None<br/>Struct Weight: 2</b></p> | 37:15 |   |
| 126.3    | <p style="text-align: center;"><b>Crack Longitudinal<br/>Position: 8<br/>Severity: None<br/>Struct Weight: 2</b></p> | 37:41 |  |

| Distance | Fault Observation  | Time  | Picture |
|----------|--|-------|---------|
| 136.0    | <p><b>Crack Circumferential</b><br/> <b>Position: 12 To 11</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 1</b></p>                   | 40:22 |         |
| 136.9    | <p><b>Broken</b><br/> <b>Position: 6 To 9</b><br/> <b>Severity: None</b><br/> <b>Joint</b><br/> <b>Struct Weight: 5</b></p>                  | 42:12 |         |
| 145.7    | <p><b>Crack Spiral</b><br/> <b>Position: 9 To 3</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: S03</b><br/> <b>Struct Weight: 2</b></p> | 43:27 |         |

| Distance | Fault Observation   | Time  | Picture  |
|----------|---|-------|--|
| 147.1    | <p style="text-align: center;"> <b>Infil Dripper</b><br/> <b>Position: 3</b><br/> <b>Severity: None</b><br/> <b>Joint</b><br/> <b>Maint Weight: 3</b> </p>  | 44:30 |     |
| 149.2    | <p style="text-align: center;"> <b>Crack Spiral</b><br/> <b>Position: 9 To 3</b><br/> <b>Severity: None</b><br/> <b>Cont Defect: F03</b><br/> <b>Struct Weight: 2</b> </p>  | 45:53 |   |
| 157.7    | <p style="text-align: center;"> <b>Tap Factory Defective</b><br/> <b>Position: 12</b><br/> <b>Severity: None</b><br/> <b>Size: 4</b><br/> <b>Remarks: CRACK AT</b><br/> <b>SERVICE AND INFIL</b><br/> <b>DRIPPER</b><br/> <b>Maint Weight: 2</b> </p> | 48:12 |  |

| Distance | Fault Observation   | Time  | Picture  |
|----------|---|-------|--|
| 173.4    | <p><b>Crack Longitudinal</b><br/> <b>Position: 10</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p> | 49:26 |     |
| 188.6    | <p><b>Crack Longitudinal</b><br/> <b>Position: 3</b><br/> <b>Severity: None</b><br/> <b>Struct Weight: 2</b></p>  | 50:56 |   |
| 193.0    | <p><b>Water Level Sag</b><br/> <b>Severity: None</b><br/> <b>Percent: 10</b><br/> <b>Struct Weight: 2</b></p>     | 51:31 |  |

| Distance | Fault Observation  | Time  | Picture   |
|----------|--|-------|---|
| 198.8    | <p style="text-align: center;"><b>Manhole</b><br/> <b>Severity: None</b><br/> <b>Remarks: 4B</b></p> | 53:55 |  |

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# Project: RIVERBEND OF NAPLES SANITARY

## 11.30.2023

Date: 11/30/2023 3:01:00 PM

Street: WALKERBILT RD

Length Surveyed: 198.8

Pacp Quick Overall Rating: 5432

Height (Diameter): 6

Street: WALKERBILT RD

Pipe Segment Reference: MH-3 - MH-4B

Upstream MH: 3

Downstream MH: 4B

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

| Severity |
|----------|
| Light    |
| Moderate |
| Average  |
| Heavy    |
| Severe   |

ID Number: 3

(0.0) AMH - Manhole Remark: 3

(0.0) MWL - Water Level

(0.0) CL - Crack Longitudinal - Position: 12

(4.9) CL - Crack Longitudinal - Position: 11

(23.4) CL - Crack Longitudinal - Position: 1

(24.2) TF - Tap Factory - Position: 12

(24.5) CL - Crack Longitudinal - Position: 1

(29.9) FC - Fracture Circumferential - Position: 3 To 9

(33.7) MWLS - Water Level Sag - Cont Def: S01

(42.6) MWLS - Water Level Sag - Cont Def: F01

(50.1) CL - Crack Longitudinal - Position: 8

(50.3) CL - Crack Longitudinal - Position: 5

(51.6) CL - Crack Longitudinal - Position: 4

(54.4) B - Broken - Position: 9 To 12

(54.8) TF - Tap Factory - Position: 10

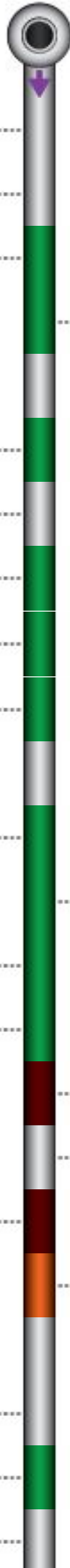
(57.9) B - Broken - Position: 12 To 12

(58.1) CM - Crack Multiple - Position: 7 To 9

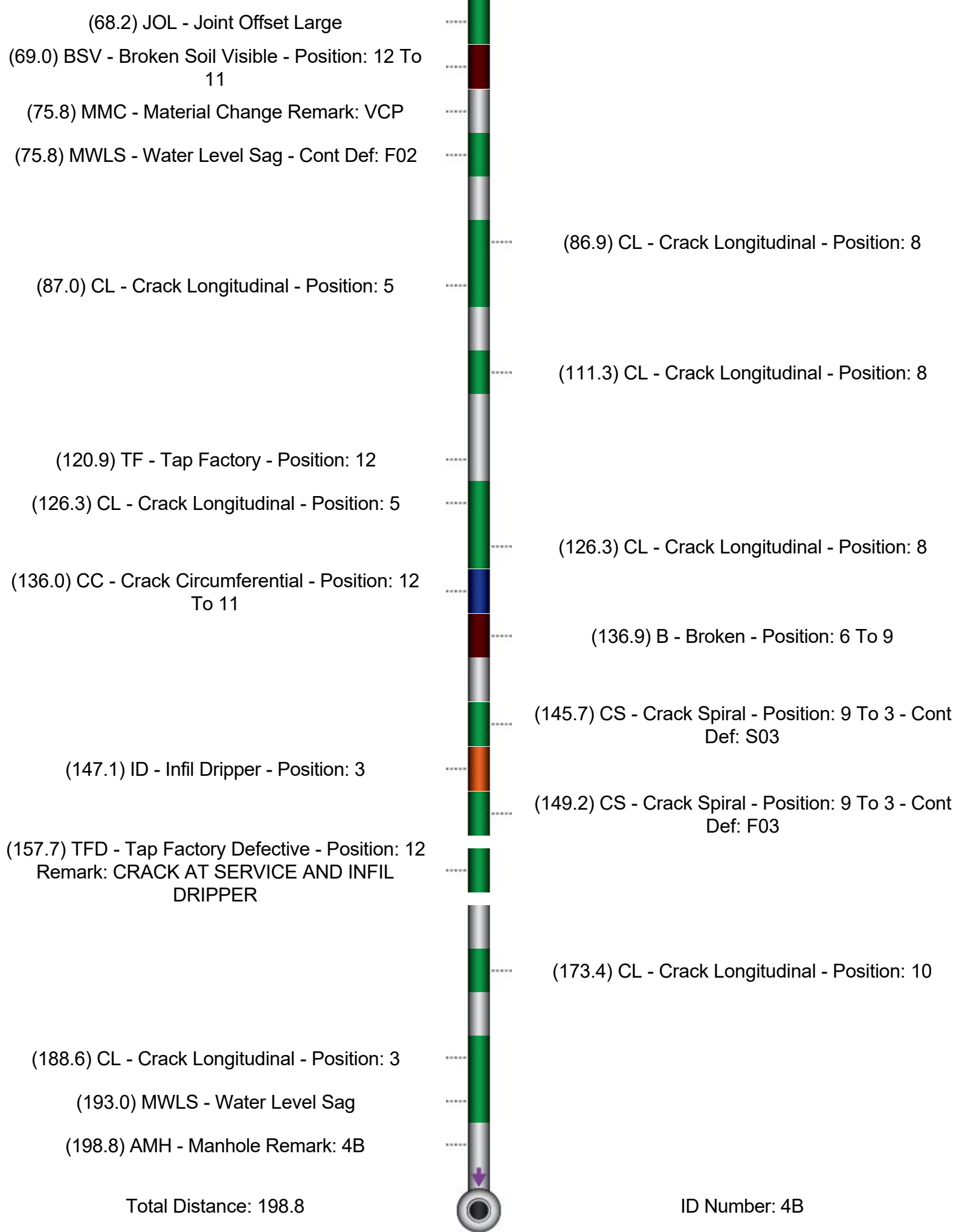
(62.7) MMC - Material Change Remark: PVC

(63.8) MWLS - Water Level Sag - Cont Def: S02

(64.6) TF - Tap Factory - Position: 12







# Nassco C.C.T.V. Defect Code Information

| Grade              | Structural | O&M  | Overall |
|--------------------|------------|------|---------|
| 5                  | 20         | 0    | 20      |
| 4                  | 0          | 0    | 0       |
| 3                  | 3          | 3    | 6       |
| 2                  | 44         | 2    | 46      |
| 1                  | 1          | 0    | 1       |
| Overall            | 68         | 5    | 73      |
| Number of Defects  | 28         | 2    | 30      |
| Pipe Rating        | 5431       | 3121 | 5432    |
| Pipe Ratings Index | 2          | 2    | 2       |

# Nassco C.C.T.V. Defect Code Information

| Distance | Video Ref | Code                          | Cont Defect | Value     |     |    | Joint | Circumferential Location |    |
|----------|-----------|-------------------------------|-------------|-----------|-----|----|-------|--------------------------|----|
|          |           |                               |             | Dimension |     | %  |       | At / From                | To |
|          |           |                               |             | 1st       | 2nd |    |       |                          |    |
| 0        | 21        | AMH - Manhole                 |             |           |     |    |       |                          |    |
|          |           | 3                             |             |           |     |    |       |                          |    |
| 0        | 30        | MWL - Water Level             |             |           |     | 5  |       |                          |    |
| 0        | 337       | CL - Crack Longitudinal       |             |           |     |    |       | 12                       |    |
| 4.9      | 123       | CL - Crack Longitudinal       |             |           |     |    |       | 11                       |    |
| 23.4     | 229       | CL - Crack Longitudinal       |             |           |     |    |       | 1                        |    |
| 24.2     | 255       | TF - Tap Factory              |             | 6         |     |    |       | 12                       |    |
| 24.5     | 309       | CL - Crack Longitudinal       |             |           |     |    |       | 1                        |    |
| 29.9     | 606       | FC - Fracture Circumferential |             |           |     |    | X     | 3 9                      |    |
| 33.7     | 685       | MWLS - Water Level Sag        | S01         |           |     | 5  |       |                          |    |
| 42.6     | 725       | MWLS - Water Level Sag        | F01         |           |     | 5  |       |                          |    |
| 50.1     | 898       | CL - Crack Longitudinal       |             |           |     |    |       | 8                        |    |
| 50.3     | 788       | CL - Crack Longitudinal       |             |           |     |    |       | 5                        |    |
| 51.6     | 944       | CL - Crack Longitudinal       |             |           |     |    |       | 4                        |    |
| 54.4     | 1056      | B - Broken                    |             |           |     |    |       | 9 12                     |    |
| 54.8     | 1089      | TF - Tap Factory              |             | 6         |     |    |       | 10                       |    |
| 57.9     | 1246      | B - Broken                    |             |           |     |    |       | 12 12                    |    |
| 58.1     | 1292      | CM - Crack Multiple           |             |           |     |    |       | 7 9                      |    |
| 62.7     | 1394      | MMC - Material Change         |             |           |     |    |       |                          |    |
|          |           | PVC                           |             |           |     |    |       |                          |    |
| 63.8     | 1421      | MWLS - Water Level Sag        | S02         |           |     | 10 |       |                          |    |
| 64.6     | 1452      | TF - Tap Factory              |             | 6         |     |    |       | 12                       |    |

|       |      |                                    |     |   |  |    |    |    |
|-------|------|------------------------------------|-----|---|--|----|----|----|
| 68.2  | 1511 | JOL - Joint Offset Large           |     |   |  |    |    |    |
| 69    | 1584 | BSV - Broken Soil Visible          |     |   |  |    | 12 | 11 |
| 75.8  | 1789 | MMC - Material Change              |     |   |  |    |    |    |
|       |      | VCP                                |     |   |  |    |    |    |
| 75.8  | 1800 | MWLS - Water Level Sag             | F02 |   |  | 10 |    |    |
| 86.9  | 1876 | CL - Crack Longitudinal            |     |   |  |    | 8  |    |
| 87    | 1913 | CL - Crack Longitudinal            |     |   |  |    | 5  |    |
| 111.3 | 2101 | CL - Crack Longitudinal            |     |   |  |    | 8  |    |
| 120.9 | 2148 | TF - Tap Factory                   |     | 6 |  |    | 12 |    |
| 126.3 | 2235 | CL - Crack Longitudinal            |     |   |  |    | 5  |    |
| 126.3 | 2261 | CL - Crack Longitudinal            |     |   |  |    | 8  |    |
| 136   | 2422 | CC - Crack Circumferential         |     |   |  |    | 12 | 11 |
| 136.9 | 2532 | B - Broken                         |     |   |  |    | X  | 6  |
| 145.7 | 2607 | CS - Crack Spiral                  | S03 |   |  |    |    | 9  |
| 147.1 | 2670 | ID - Infil Dripper                 |     |   |  |    | X  | 3  |
| 149.2 | 2753 | CS - Crack Spiral                  | F03 |   |  |    |    | 9  |
| 157.7 | 2892 | TFD - Tap Factory Defective        |     | 4 |  |    |    | 12 |
|       |      | CRACK AT SERVICE AND INFIL DRIPPER |     |   |  |    |    |    |
| 173.4 | 2966 | CL - Crack Longitudinal            |     |   |  |    |    | 10 |
| 188.6 | 3056 | CL - Crack Longitudinal            |     |   |  |    |    | 3  |
| 193   | 3091 | MWLS - Water Level Sag             |     |   |  | 10 |    |    |
| 198.8 | 3235 | AMH - Manhole                      |     |   |  |    |    |    |
|       |      | 4B                                 |     |   |  |    |    |    |

# Videos Created for Session RIVERBEND OF NAPLES SANITARY 11.30.2023

3-4B\_11302023-1501-D.mp4 Size: 1.19 GB

Your browser does not support the video tag.

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# Project: RIVERBEND OF NAPLES SANITARY

11.30.2023

Date: 11/30/2023 3:01:00 PM

Street: WALKERBILT RD

Length Surveyed: 198.8

Pacp Quick Overall Rating: 5432

Height (Diameter): 6

Street: WALKERBILT RD

Pipe Segment Reference: MH-3 - MH-4B

Upstream MH: 3

Downstream MH: 4B

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

Percent Grade Mean: -1.03

Plot Distance From: 0 To 200

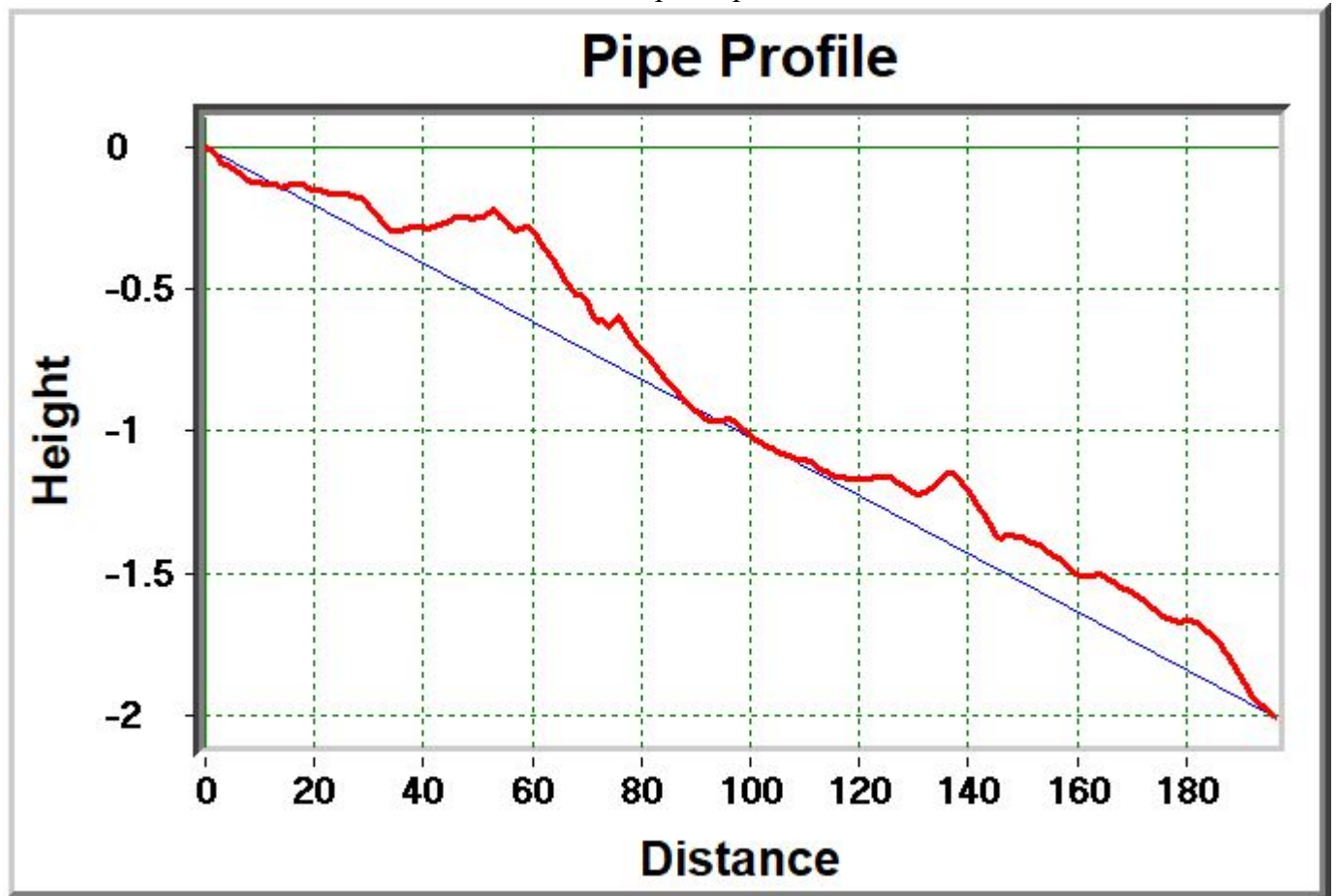
Max Percent Difference: 3

Number of Window Values: 1

Percent Difference Max for Windows Values: 60

Number of Feet to Average: 1

Final number of points plotted: 193



# Additional Reports for Session RIVERBEND OF NAPLES SANITARY 11.30.2023

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