



Defect Listing

| | | | | | |
|------------------------|-----------------------|-------------------|-------------------------------|----------------------|-----------------|
| Pipe Segment Refere... | City | Street | Material | Location C... | Sewer Use |
| B-19_B-18 | Oliver Springs | Cemtery Rd | Fibreglass Reinforc... | Light High... | Sanitary |
| Upstream MH | Total Length | Year Laid | Shape | Location Details | |
| B-19 | 228.6 | | Circular | | |
| DS Manhole | Length surveyed | Year Renewed | Height | Width | Pipe Joint... |
| B-18 | 228.6 | | 8 | 8 | N/A |

| | | | | | |
|-----------------|-----------------------|-------------------|-----------------|----------------------------------|------------|
| SPR | N/A | MPR | 25 | PO Number | Customer |
| SPRI | N/A | MPRI | 2.3 | 4397-03 | GRW |
| QSR | N/A | QMR | 4228 | Work Order | Purpose |
| | | | 4397-02 | Pre-Rehabilitation Survey | |
| OPR | Surveyed By | Direction | Date | Media label | |
| 25 | Charlie Gordon | Downstream | 20150908 | | |
| OPRI | Certificate Number | Pre-Cleaning | Time | Weather | |
| 2.3 | U-615-07000491 | Jetting | 08:15 | Dry | |
| Date Cleaned | | | End Time | Additional Info | |
| 20150908 | | | 08:38 | | |

| Distance | Condition | Cont. Dfct. | Values | | | Joint | Clock Position | | Grade |
|----------------------|--------------------------|-------------|--------|-----|-----|--------------------------|----------------|----|-------|
| | | | 1st | 2nd | % | | At/From | To | |
| 0.0 ft. | Access Point Manhole | | | | 0 | <input type="checkbox"/> | | | |
| Remarks: B-19 | | | | | | | | | |
| 0.0 ft. | Water Level | | | | 5 | <input type="checkbox"/> | | | |
| 61.9 ft. | Tap Factory Made | | 6 | | 0 | <input type="checkbox"/> | 3 | | |
| 139.9 ft. | Water Level Sag | | | | 15 | <input type="checkbox"/> | | | 2 |
| 142.8 ft. | Water Level Sag | S01 | | | 15 | <input type="checkbox"/> | | | 2 |
| 148.6 ft. | Alignment Down | | | | 10 | <input type="checkbox"/> | | | 1 |
| 151.6 ft. | Water Level Sag | F01 | | | 15 | <input type="checkbox"/> | | | 2 |
| 156.3 ft. | Water Level Sag | | | | 20 | <input type="checkbox"/> | | | 2 |
| 156.7 ft. | Deposits Attached Grease | | | | 5 | <input type="checkbox"/> | 9 | 3 | 2 |
| 158.7 ft. | Water Level Sag | | | | 100 | <input type="checkbox"/> | | | 4 |
| 159.8 ft. | Camera Underwater | | | | 0 | <input type="checkbox"/> | | | 4 |
| 166.7 ft. | Water Level Sag | | | | 10 | <input type="checkbox"/> | | | 2 |
| 175.3 ft. | Water Level Sag | | | | 10 | <input type="checkbox"/> | | | 2 |
| 179.9 ft. | Water Level Sag | | | | 15 | <input type="checkbox"/> | | | 2 |
| 227.0 ft. | Water Level | | | | 10 | <input type="checkbox"/> | | | |
| 228.6 ft. | Access Point Manhole | | | | 0 | <input type="checkbox"/> | | | |
| Remarks: B-18 | | | | | | | | | |

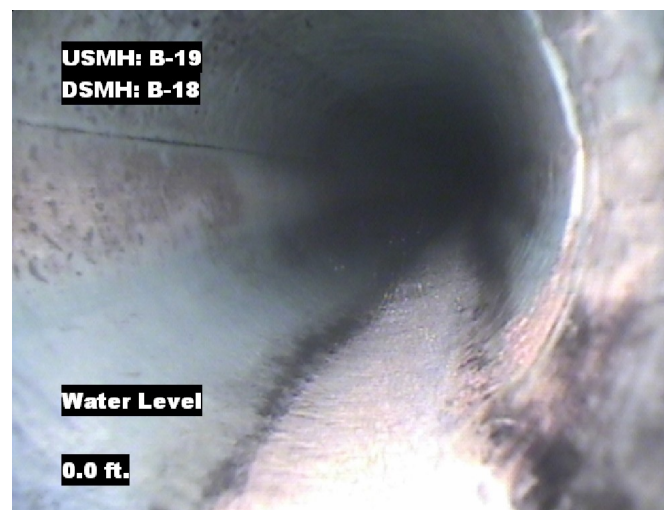


Image Report 4/Page

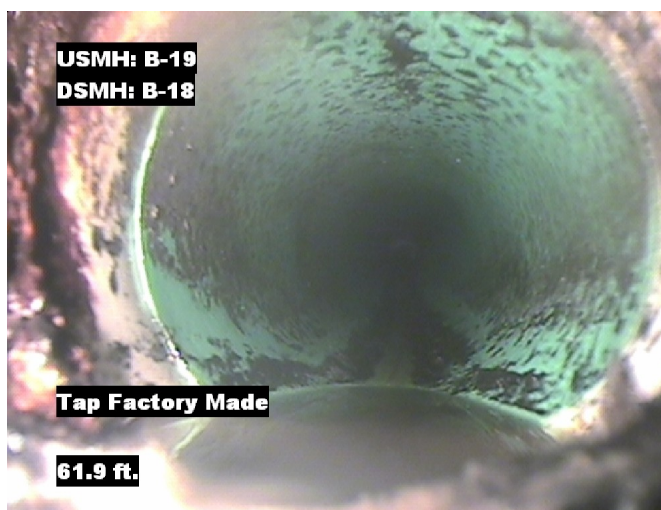
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|--|---------------------------------|-----------------------------|---|---------------------------------------|------------------------------|
| Pipe Segment Refere... B-19_B-18 | City Oliver Springs | Street Cemtery Rd | Material Fibreglass Reinforc... | Location C... Light High... | Sewer Use Sanitary |
| Upstream MH B-19 | Total Length 228.6 | Year Laid | Shape Circular | Location Details | |
| DS Manhole B-18 | Length surveyed 228.6 | Year Renewed | Height 8 | Width 8 | Pipe Joint... N/A |



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: B-19



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 61.9 ft. Grade: 0
Condition: Tap Factory Made
Remarks: N/A

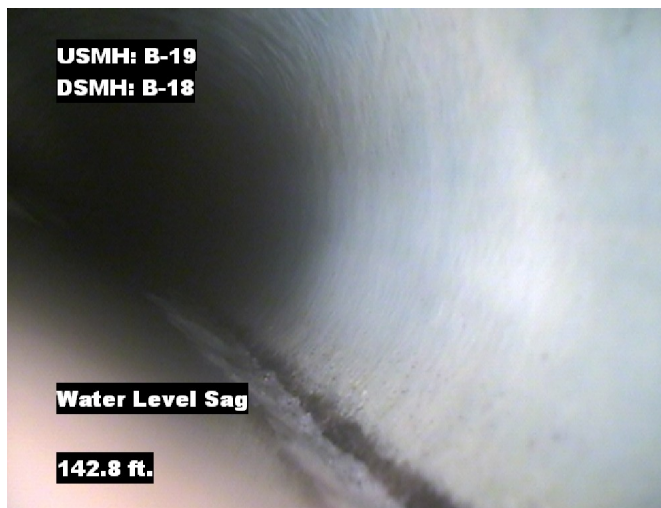


Distance: 139.9 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Image Report 4/Page

| Pipe Segment Refere... | City | Street | Material | Location C... | Sewer Use |
|------------------------|------------------------|-------------------|-------------------------------|----------------------|-----------------|
| B-19_B-18 | Oliver Springs | Cemtery Rd | Fibreglass Reinforc... | Light High... | Sanitary |
| Upstream MH | Total Length | Year Laid | Shape | Location Details | |
| B-19 | 228.6 | | Circular | | |
| DS Manhole | Length surveyed | Year Renewed | Height | Width | Pipe Joint... |
| B-18 | 228.6 | | 8 | 8 | N/A |



Distance: 142.8 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Distance: 148.6 ft. Grade: 1
Condition: Alignment Down
Remarks: N/A



Distance: 151.6 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Distance: 156.3 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Image Report 4/Page

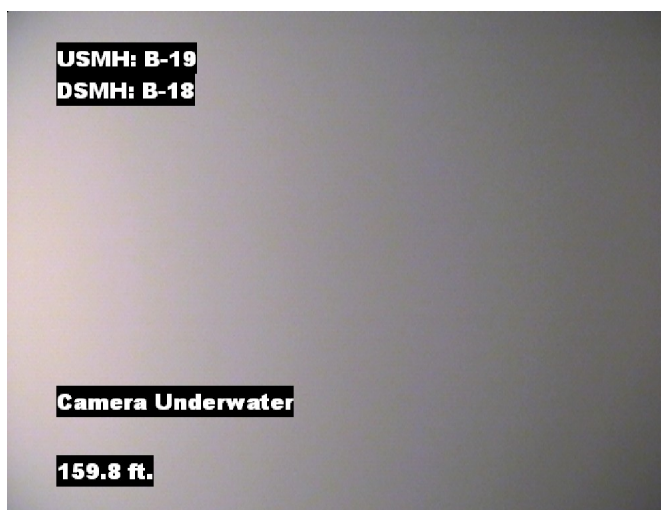
| | | | | | | |
|--|---------------------------------|-----------------------------|---|-------------------|---------------------------------------|------------------------------|
| Pipe Segment Refere... B-19_B-18 | City Oliver Springs | Street Cemtery Rd | Material Fibreglass Reinforc... | | Location C... Light High... | Sewer Use Sanitary |
| Upstream MH B-19 | Total Length 228.6 | Year Laid | Shape Circular | | Location Details | |
| DS Manhole B-18 | Length surveyed 228.6 | Year Renewed | Height 8 | Width 8 | Pipe Joint... | N/A |



Distance: 156.7 ft. Grade: 2
Condition: Deposits Attached Grease
Remarks: N/A



Distance: 158.7 ft. Grade: 4
Condition: Water Level Sag
Remarks: N/A



Distance: 159.8 ft. Grade: 4
Condition: Camera Underwater
Remarks: N/A



Distance: 166.7 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Image Report 4/Page

| Pipe Segment Refere... | City | Street | Material | Location C... | Sewer Use |
|------------------------|------------------------|-------------------|-------------------------------|----------------------|-----------------|
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| B-19 | 228.6 | | Circular | | |
| DS Manhole | Length surveyed | Year Renewed | Height | Width | Pipe Joint... |
| B-18 | 228.6 | | 8 | 8 | N/A |



Distance: 175.3 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Distance: 179.9 ft. Grade: 2
Condition: Water Level Sag
Remarks: N/A



Distance: 227.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 228.6 ft. Grade: 0
Condition: Access Point Manhole
Remarks: B-18



PACP Conditions

| | | | | | |
|--|---|--------------------------------|---|---|------------------------------|
| Pipe Segment Refere... B-19_B-18 | City Oliver Springs | Street Cemtery Rd | Material Fibreglass Reinforc... | Location C... Light High... | Sewer Use Sanitary |
| Upstream MH B-19 | Total Length 228.6 | Year Laid | Shape Circular | Location Details | |
| DS Manhole B-18 | Length surveyed 228.6 | Year Renewed | Height 8 | Width 8 | Pipe Joint... N/A |
| SPR N/A | MPR 25 | PO Number 4397-03 | | Customer GRW | |
| SPRI N/A | MPRI 2.3 | Work Order 4397-02 | | Purpose Pre-Rehabilitation Survey | |
| QSR N/A | QMR 4228 | | | | |
| OPR 25 | Surveyed By Charlie Gordon | Direction Downstream | Date 20150908 | Media label | |
| OPRI 2.3 | Certificate Number U-615-07000491 | Pre-Cleaning Jetting | Time 08:15 | Weather Dry | |
| Date Cleaned 20150908 | | | End Time 08:38 | Additional Info | |

| Normal Defects | | | | Structural Ratings | | | O & M Ratings | | | Combined Ratings | | |
|--------------------|-----|--------|---|--------------------|------------|--------|------------------|------------|--------|---------------------|------------|--------|
| | | | | Grade Rating | No. Occur. | Rating | Grade Rating | No. Occur. | Rating | Grade Rating | No. Occur. | Rating |
| Continuous Defects | | | | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | 2 | 0 | 0 | 2 | 6 | 12 | 2 | 6 | 12 |
| | | | | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 |
| | | | | 4 | 0 | 0 | 4 | 2 | 8 | 4 | 2 | 8 |
| | | | | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 |
| Code | ID | Length | 0 | 0 | 0 | 2 | 2 | 4 | 2 | 2 | 4 | |
| MWLS | F01 | 8.8 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | Subtotals | 0 | | Subtotals | 11 | | Subtotals | 11 | |
| SUMMARY | | | | Pipe Rating | | 0 | Pipe Rating | | 25 | Overall Pipe Rating | | 25 |
| | | | | Structural Index | | 0 | O&M Index | | 2.3 | Overall Index | | 2.3 |
| | | | | Str. Quick Rating | | 0000 | O&M Quick Rating | | 4228 | Ovrl. Quick Rating | | 4228 |
| | | | | | | | | | | | | |