



ENGINEERED LINING SYSTEMS

IN-PLACE PIPE & STRUCTURE RESTORATION

1234 Orton Street * Jacksonville, Florida * 32205
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Lake Asbury North Dam CCTV inspection of East and West Outfall to Kettle Valves

May 13, 2021

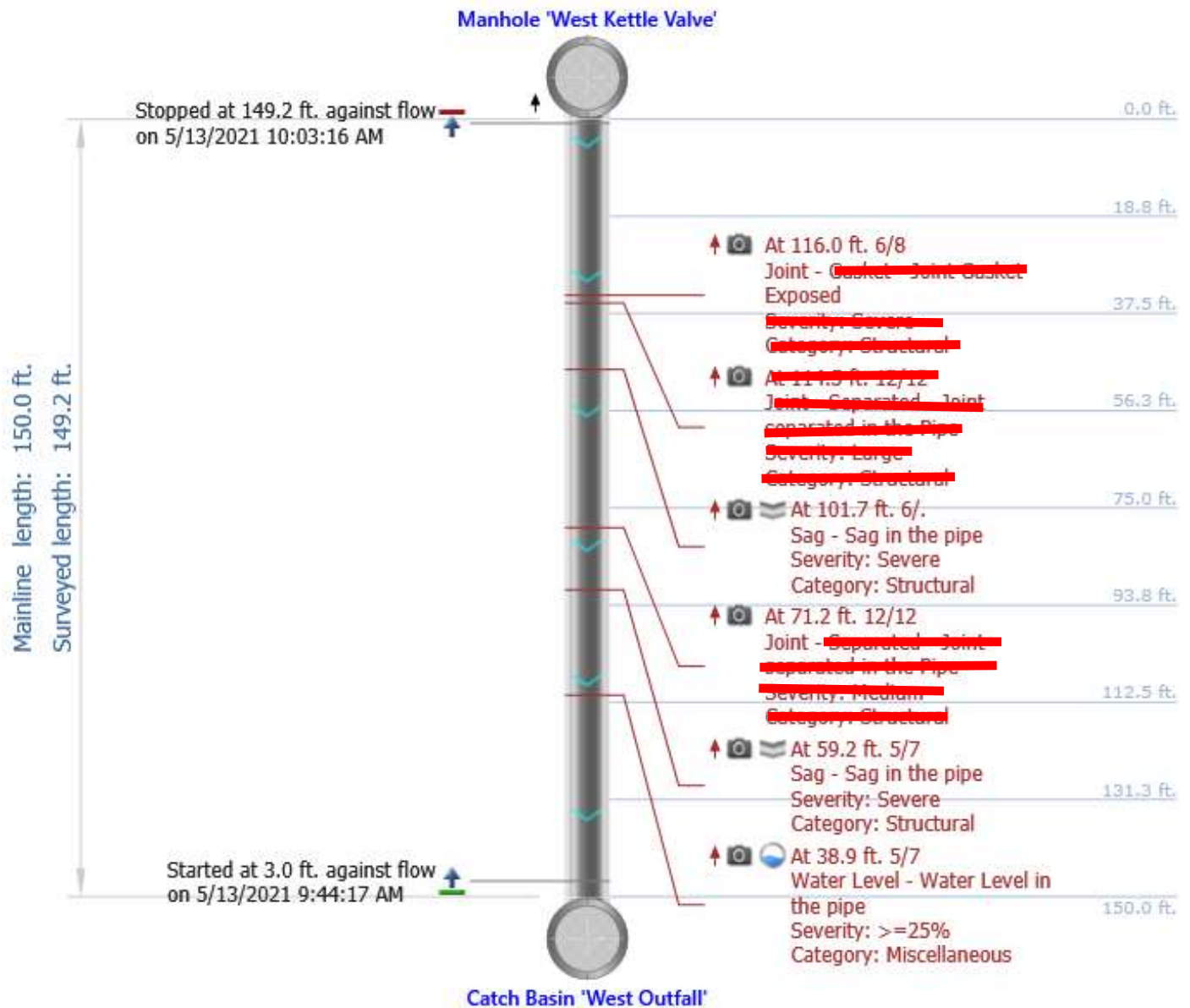


James Macko
904-449-4759

IN-SITU EPOXY LINING SYSTEMS * CIPP * STRUCTURE REHABILITATION

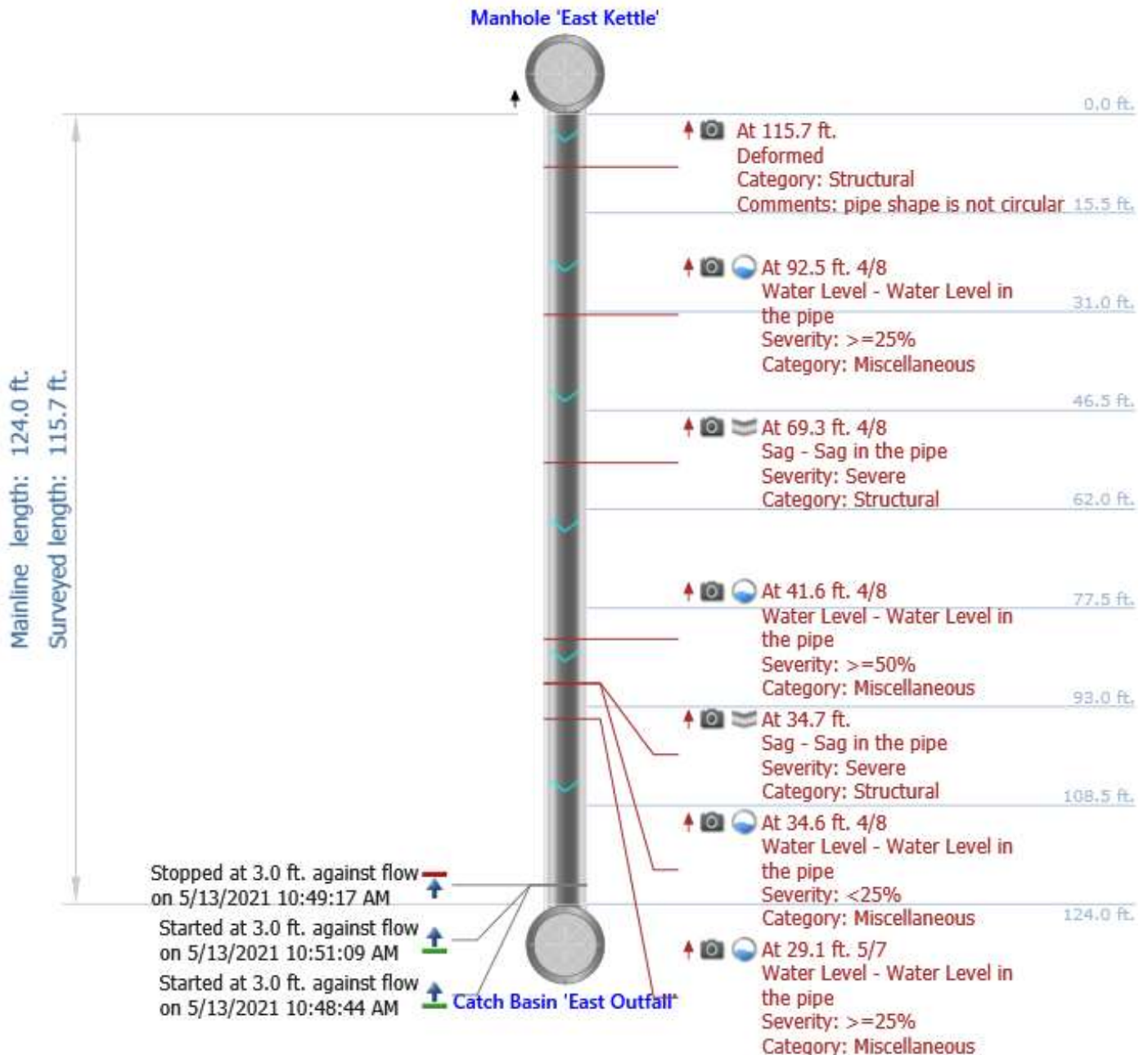
Main Inspections Pipe Run and Map

| | | | |
|---|--|---------------------------------------|--|
| Project name: 21050089_Lake_Asbury_Pipe_Investigation | Mainline ID: West Kettle Valve to West Outfall | City: Greencove Springs, FL | Address: Lake Asbury North Dam |
| Start date/time: 5/13/2021 9:44 AM | Direction: Against the flow | Weather: Dry | Surface condition: Garden |
| Pipe shape: Circular | Pipe material: Other | Pipe height: 20.0 in. | Pipe width: 20.0 in. |



Main Inspections Pipe Run and Map



| | | | |
|---|---------------------------------------|---------------------------------------|--|
| Project name: 21050089_Lake_Asbury_Pipe Investigation | Mainline ID: East Outfall | City: Greencove Springs, FL | Address: Lake Asbury North Dam |
| Start date/time: 5/13/2021 10:48 AM | Direction: Against the flow | Weather: Dry | Surface condition: Garden |
| Pipe shape: Circular | Pipe material: Other | Pipe height: 20.0 in. | Pipe width: 20.0 in. |



Some observations have distance greater than the pipe length

Weather:

Dry

Stopped at -91.4 ft. against flow 
on 5/13/2021 11:19:57 AM 

Notes after review 5/13/2021 at Engineered Linings Systems Headquarters.

1. West pipe run reports calls out joint issues. During the office review we have found minimal issues with joints. There are no visible leaks and joints appear to be fused not gasket-ed. One joint has one small section of the internal part of the fuse that has separated from joint, but looking close at joint seam, the joint appears to be in good condition. All water that is visible appears to be coming from around the valve. We cannot see any active infiltration from HDPE or existing CMP. Also, there was no active water the was visibly flowing at the outfall between the HDPE Liner and original CMP.
2. East pipe run report office review. We have found minimal issues with joints. There are no visible leaks and joints appear to be fused not gasket-ed. All water that is visible appears to be coming from around the valve. Valve is in poor condition and needs repair. We cannot see any active infiltration from HDPE or existing CMP. Also, there was no active water the was visibly flowing at the outfall between the HDPE Liner and original CMP.