COASTAL
DOCK CONCEPTS

1060 Gulf Blvd., Clearwater, FL. 33767

Inspection Report

Dive inspection was performed and completed on August 4, 2021.

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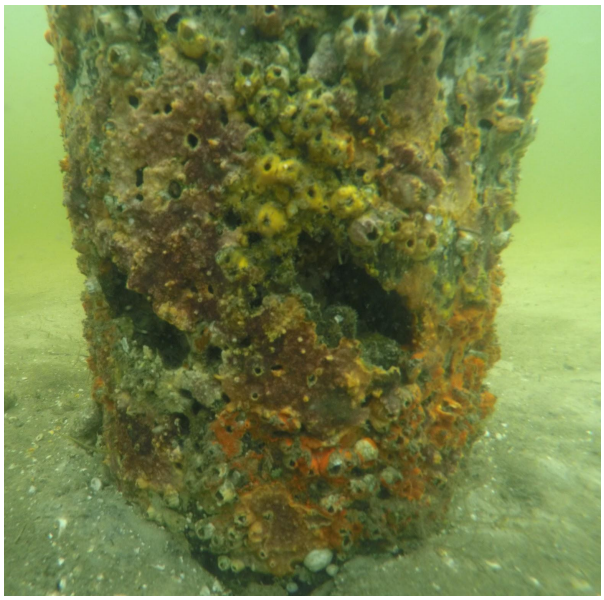
Structural Integrity

The dock is in operable but not good condition. All framing, hardware, and pilings have damage and are rotting. Both docks are recommended for complete replacement.

Background

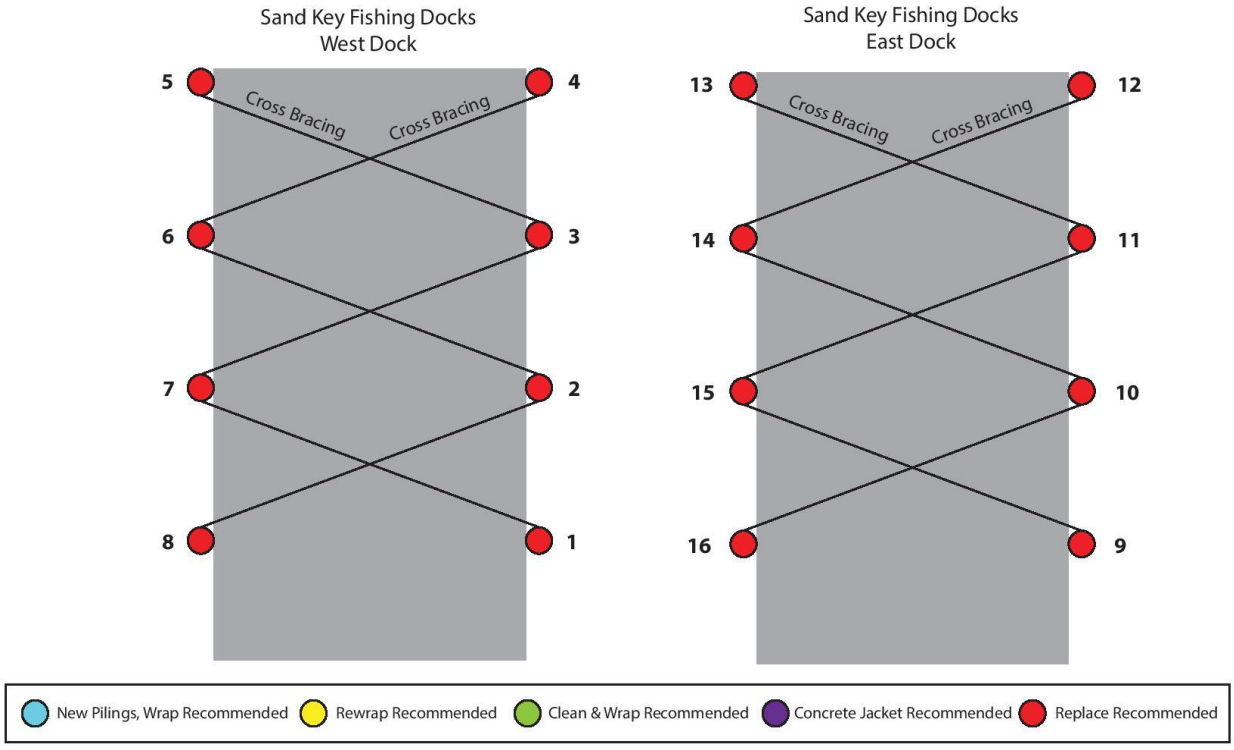
Boring and ship worms are crustaceans that use their shells as a “drill” to burrow into wood pilings and framing. Due to their ability to infest a piling in as short as five weeks (from the time of initial contact), they have become a major problem in the Tampa Bay area costing millions of dollars of damage each year. Once the worms have made their way into the piling, they continue to burrow paths through eating as much of the inside of the piling as they can before exiting and moving onto the next wood food source. The proper way to prevent this is by wrapping the pilings with a multilayer system



Above are example images of worm damage to in-water pilings.

Piling Inspection Report

Upon completion of our dive inspection, we found that all of the pilings have evidence of worm infestation and damage to the piling. Videos correlate to the number on each piling in the following diagrams.



*Inspections are recommendations made dependent on visual condition of pilings on date of inspection. Recommendations are subject to change once all growth is removed from piling. Inspection will be honored for 90 days from 8.4.2021.

Image 1.

There are two pile caps on each parallel set of pilings. One is holding the stringers and floaters to support the dock. The other is helping support the cross braces. Most of the support framing boards and stanchions are cracked.

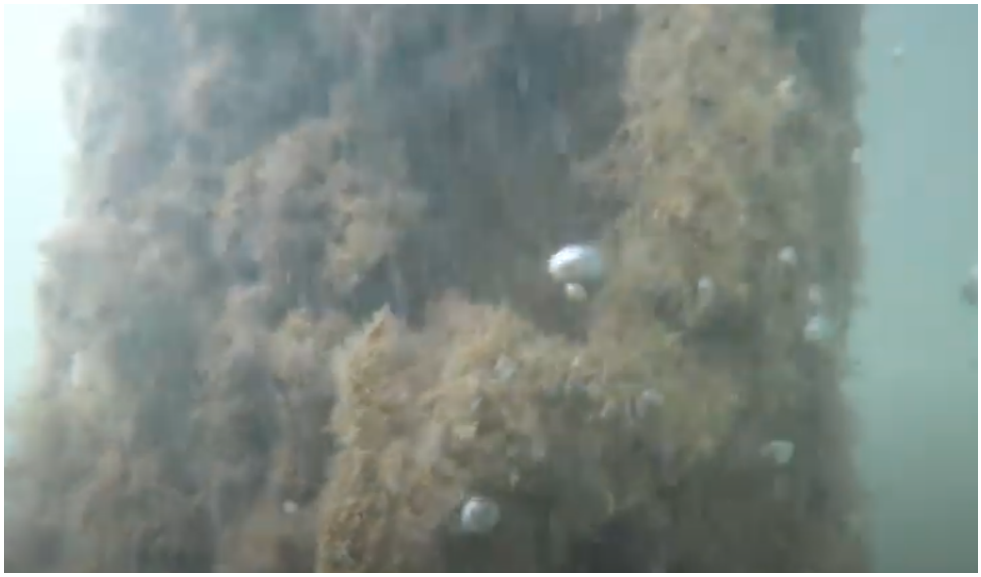


Image 2.

There is extensive worm damage on most of the pilings.

Hardware

All hardware on the docks are stainless steel.

Decking

Older composite decking is on the dock. Framing issues over time has caused the decking to dip and pop up screws.

Utilities

There is no water or electricity on either dock.

Conclusion

Some of the pilings are cracked through and missing mass at the top. Galvanized hardware that is bolted through the pilings are causing the hole to rot the piling and will prevent the pilings from being able to support new hardware in the future. Support framing boards are cracking/split and rotting due to rusting galvanized hardware and direct exposure to salt water.

Once replaced, pilings should be properly wrapped with a multi-layer system that is sunk into the mudline to prevent worm infestation and future damage.

There is high current in this area in particular which will make it difficult to rebuild.

Disclaimer: Due to silt kick up and low visibility underwater photos and videos of piling damage is limited.