

# Testing Summary

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Recent Independent Cleaning Efficiency Testing\* by Nilfisk-Advance

## Testing Facilities

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Professional Testing Laboratory, Inc. (PTL), 714 Glenwood Place, Dalton, Georgia 30721  
Environ Laboratories LLC, 9725 Girard Avenue South, Minneapolis, MN 55431

## Testing Summary

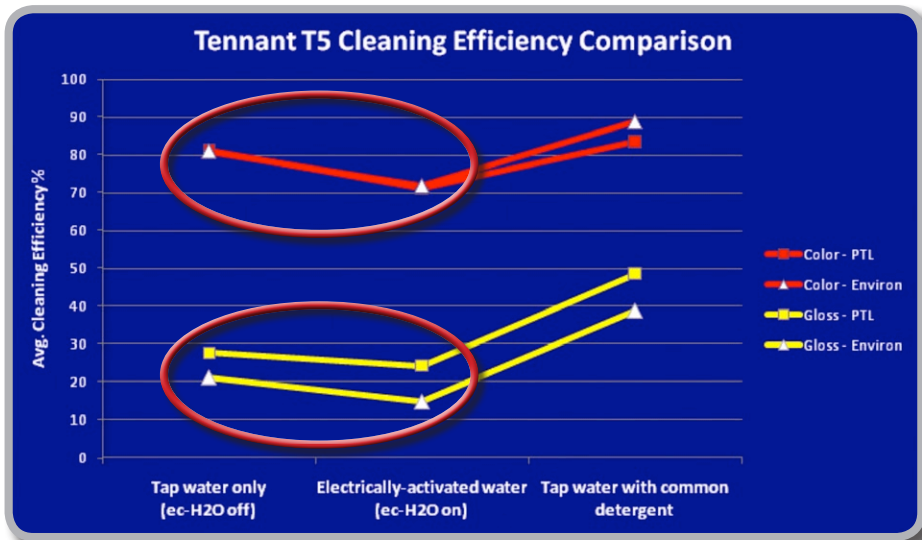
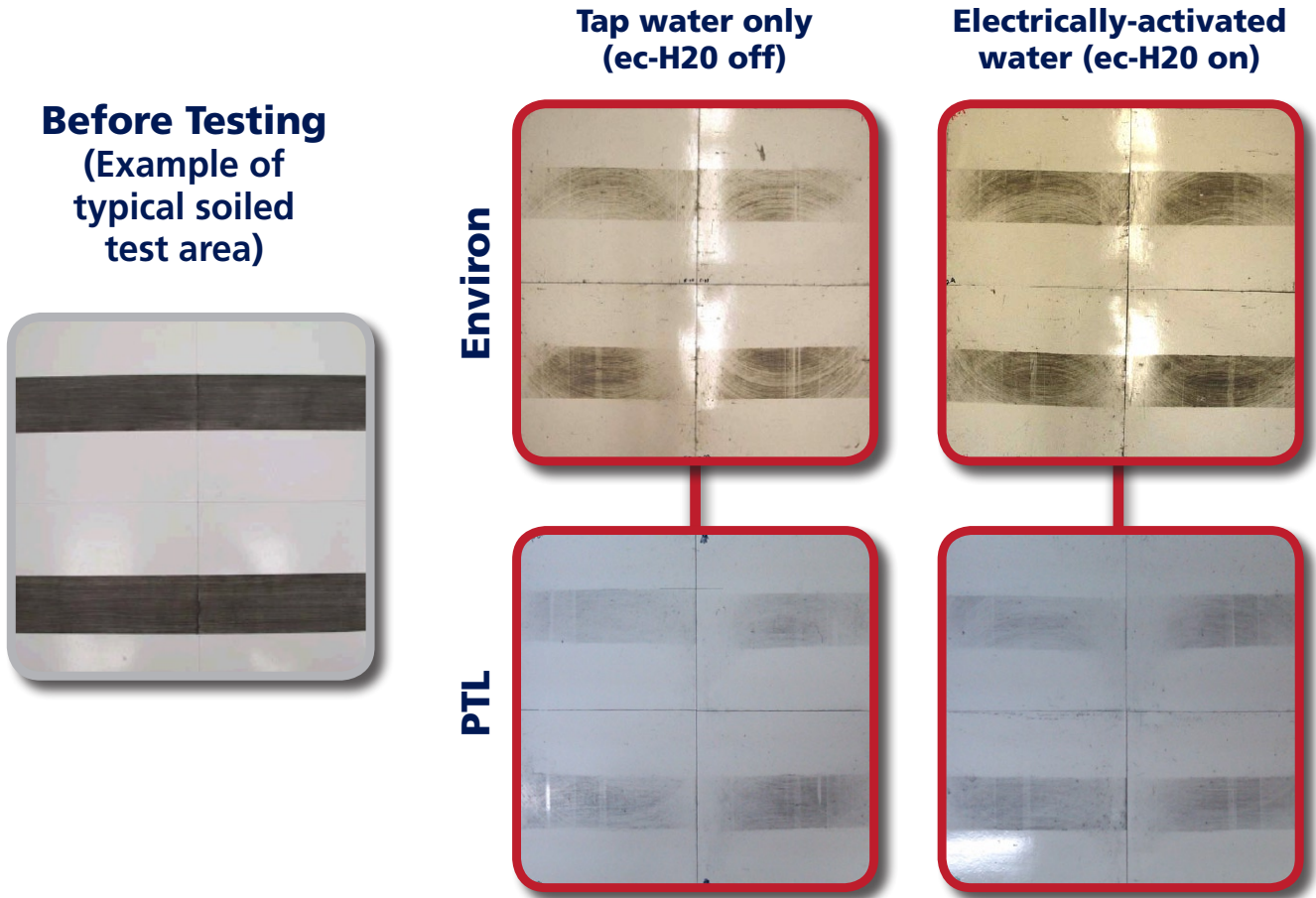
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- Each lab directly purchased a new Tennant T5 automatic scrubber with the ec-H2O system.
- The labs independently measured the cleaning efficiency of a new Tennant T5 using three different cleaning solutions:
  - *with plain tap water (ec-H2O off)*
  - *with electrically-activated water (ec-H2O on)*
  - *with tap water and detergent*
- Each test consisted of six sample areas placed one at a time, each cleaned by a single pass of the scrubber.
- Measurements used for evaluation include both gloss meter readings and spectrophotometer (grayscale) readings taken at 20 points per sample area.
- Cleaning efficiencies were calculated using the formula from ASTM D 4488 section A5:  
$$\% \text{ cleaning efficiency} = \frac{(\text{data value of cleaned tile}) - (\text{data value of soiled tile})}{(\text{data value of tile before soiling}) - (\text{data value of soiled tile})}$$

# Results Summary

## Electrically-activated water performed no better than plain tap water.

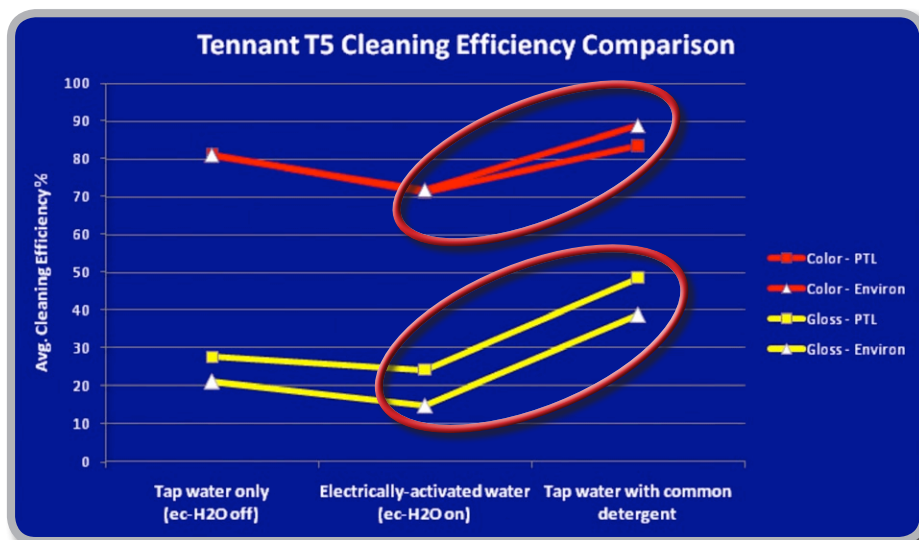
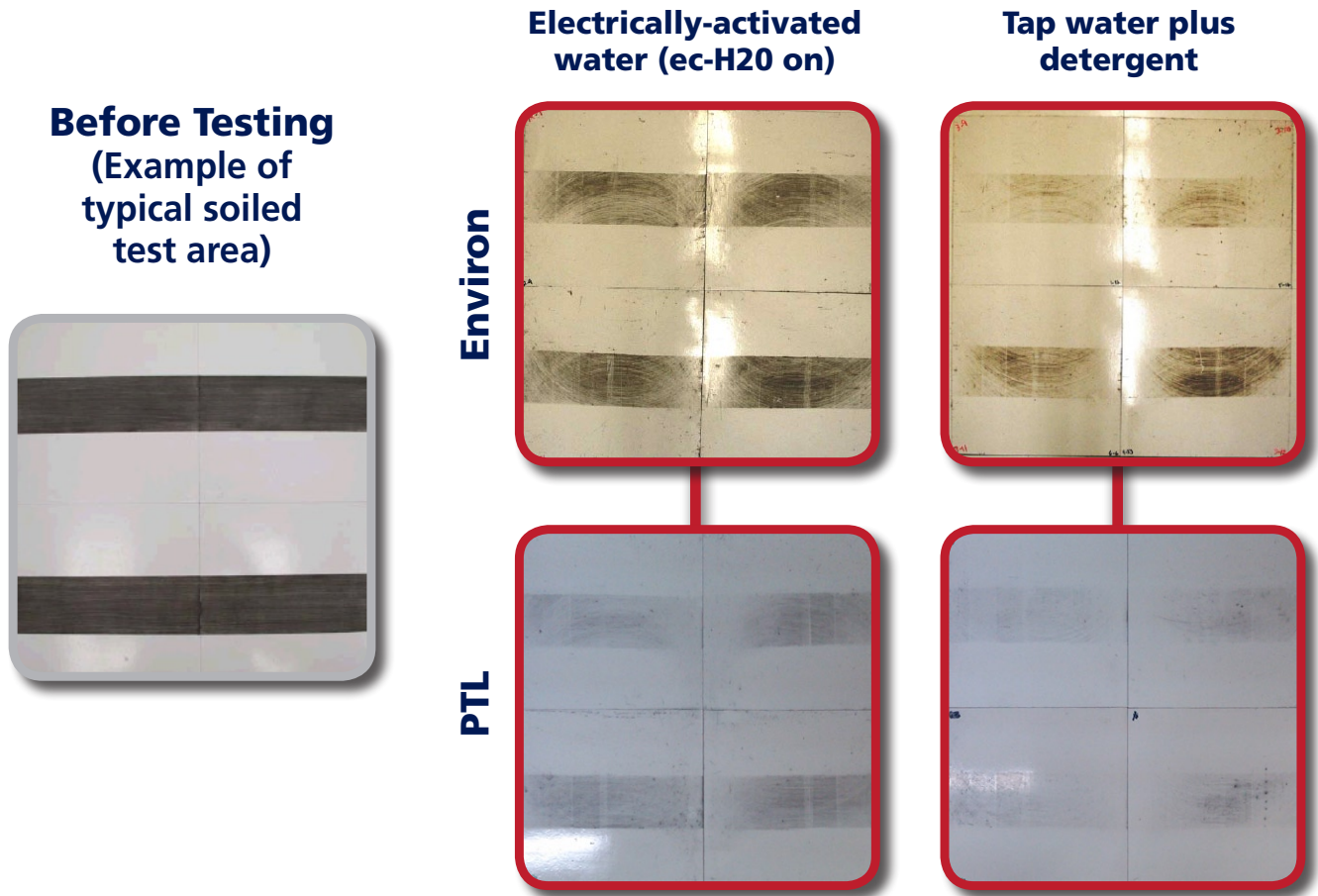
Statistically significant testing results from the two independent, accredited labs consistently show that a Tennant T5 floor scrubber using electrically-activated water performed no better than when that scrubber cleaned with only tap water.



# Results Summary

**Electrically-activated water did not clean as effectively as tap water plus detergent.**

The results also indicate that when cleaning with electrically-activated water, the scrubber did not clean as effectively as when the scrubber cleaned with tap water plus detergent.



*\* Professional Testing Laboratory, Inc. Test Report Number 133904 and Environ Laboratories LLC Engineering Report 42841-2 describe the complete test procedure and results.*

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