

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 07/21/2021

Experimenters: Nicole Kebler

ClientType: Cleaner Manufacturer

ProjectNumber: Project #2

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To evaluate the effectiveness of bathroom cleaners for the removal of bathroom soil from ceramic, chrome, and plastic.

Experimental Procedure: The provided tablet was placed in the provided spray bottle and was completely dissolved in 32 oz. of warm tap water. Three coupons for each substrate were weighted for initial weights. Using the Janitorial Standard Bathroom-GS 37, the coupons were soiled on one side and were left to dry for 24 hours. After the coupons were dry, they were loaded in the Straight Line Washability Unit (SLW) three at a time by substrate. A Kimberly-Clark Wypall was attached to the cleaning sled and was sprayed twice with the cleaner. Each coupon was also sprayed two times before the SLW unit ran for 20 cycles. After the 20 cycles, the coupons were placed on a tray and were left out to dry overnight. The final weights were taken once dry.

Cleaners:

1. Amazon Aware Bathroom Cleaner
2. Clorox Bathroom

Substrates:

1. Ceramic
2. Chrome
3. Plastic

## Results:

| Cleaner | Substrate | Initial<br>wt. of<br>Cont | Final<br>wt. of<br>cont | Cont.<br>Removed | Average<br>%<br>Removal | Overall<br>%<br>Removal |       |
|---------|-----------|---------------------------|-------------------------|------------------|-------------------------|-------------------------|-------|
| A       | 1         | 0.1032                    | 0.0183                  | 82.27            | 81.70                   | 87.33                   |       |
|         |           | 0.1174                    | 0.0164                  | 86.03            |                         |                         |       |
|         |           | 0.078                     | 0.0181                  | 76.79            |                         |                         |       |
|         | 2         | 0.0676                    | 0.0047                  | 93.05            | 91.66                   |                         |       |
|         |           | 0.0631                    | 0.0056                  | 91.13            |                         |                         |       |
|         |           | 0.0565                    | 0.0052                  | 90.8             |                         |                         |       |
|         | 3         | 0.0634                    | 0.0069                  | 89.12            | 88.63                   |                         |       |
|         |           | 0.0795                    | 0.0081                  | 89.81            |                         |                         |       |
|         |           | 0.0645                    | 0.0084                  | 86.98            |                         |                         |       |
|         | B         | 1                         | 0.0795                  | 0.0126           | 84.15                   | 82.11                   | 86.00 |
|         |           |                           | 0.0606                  | 0.0114           | 81.19                   |                         |       |
|         |           |                           | 0.0584                  | 0.0111           | 80.99                   |                         |       |
| 2       |           | 0.046                     | 0.0083                  | 81.96            | 91.83                   |                         |       |
|         |           | 0.0416                    | 0.0019                  | 95.43            |                         |                         |       |
|         |           | 0.0265                    | 0.0005                  | 98.11            |                         |                         |       |
| 3       |           | 0.0542                    | 0.0072                  | 86.72            | 84.06                   |                         |       |
|         |           | 0.0756                    | 0.0085                  | 88.76            |                         |                         |       |
|         |           | 0.0395                    | 0.0092                  | 76.71            |                         |                         |       |

## Summary:

Conclusion: Amazon Aware Bathroom Cleaner with one table was more effective overall than Clorox Bathroom at removing bathroom soil from the chrome, ceramic, and plastic substrates.