

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021  
 DateRun: 12/15/2021  
 Experimenters: Zoe Lawson  
 ClientType: Lab  
 ProjectNumber: Project #7  
 Substrates: Ceramics, Plastic, Chrome  
 PartType: Coupon  
 Contaminants: SSL Soil 1 Bathroom Soap Scum  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Gravimetric

Purpose: Control testing to monitor bathroom soil consistency.

Experimental Procedure: Nine pre-weighed coupons, three of each substrate per cleaner, were each contaminated with ~0.5 gram of bathroom soil (28.6% All-in-one shampoo and conditioner, 21.4% Dry skin lotion, 21.4% Liquid Hand Soap, 14.3% Liquid body wash, 7.2% Deodorant bar soap, 7.1% Water). The dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68 F). Three coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with The Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with the cleaner and then allowed to soak for 30 seconds. Afterwards the Single Line Washing Unit (SLW) was activated and cleaned for 20 cycles. The clean coupons were all then allowed to dry overnight at room temperature before the final weights were recorded.

| Results: | Cleaner | Substrate | Initial<br>wt of<br>cont. | Final<br>wt of<br>cont. | %Cont<br>Removed | %<br>AVG | %<br>Overall |
|----------|---------|-----------|---------------------------|-------------------------|------------------|----------|--------------|
|          | Water   | Chrome    | 0.5220                    | 0.0840                  | 83.91            | 84.97    | 85.83        |
|          |         |           | 0.8444                    | 0.1341                  | 84.12            |          |              |
|          |         |           | 0.4601                    | 0.0604                  | 86.87            |          |              |
|          |         | Ceramic   | 0.5715                    | 0.0834                  | 85.41            | 85.85    |              |
|          |         |           | 0.5232                    | 0.0776                  | 85.17            |          |              |
|          |         |           | 0.5299                    | 0.0690                  | 86.98            |          |              |
|          |         | Plastic   | 0.6144                    | 0.0802                  | 86.95            | 86.67    |              |
|          |         |           | 0.5535                    | 0.0590                  | 89.34            |          |              |
|          |         |           | 0.5220                    | 0.0850                  | 83.72            |          |              |

Summary:

Conclusion: The overall removal percentage for this control test was 85.83%.