CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2026

DateRun: 08/18/2026

Experimenters: Tatyanna Moreland Junior, Evan Hebert

ClientType: Cleaner Manufacturer

ProjectNumber: Project #5

Substrates: Ceramics, Plastic, Stainless Steel

PartType: Coupon

Contaminants: Hucker's Soil

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: All purpose test utilizing GS-37 All Purpose Standard to verify the effectiveness of the DX-50 formulations compared to a market competitor.

Experimental Procedure: The coupons were selected and arranged in sets of three for each cleaner. Cleaners used were Consume Nature's Way (1:20), Ecologo DX-50 (1:16), and Green seal DX-50 (1:16). The initial weights were first taken followed by soiling each set of coupons with 1 gram of Hucker's Soil. The testing plan called for aging for 24 hours in an ambient lab environment. The following day, dirty weights were recorded. Coupons were cleaned using a Straight Line Washability unit. Two sprays of cleaner were applied to each coupon and on the towel before cleaning began. Coupons were wiped 20 times. Coupons were weighed again to determine clean weights.

Results:

Results

Product	Substrate/ Contaminant	Initial wt. of cont.	Final wt. of cont.	%Cont Removed	Average % Removal	Overall % Removal
Consume Nature's Way	Stainless Steel 304	0.6306	0.6225	1.28	0.99	3.71
		0.6292	0.6184	1.72		
		0.6229	0.6230	-0.02		
	Polycarbonate Plastic	0.6394	0.6219	2.74	4.52	
		0.5807	0.5531	4.75		
		0.6319	0.5936	6.06		
	Ceramic	0.6534	0.6156	5.79	5.63	
		0.6278	0.5894	6.12		
		0.6549	0.6223	4.98		
E DX-50	Stainless Steel 304	0.6282	0.6098	2.93	6.29	5.91
		0.6475	0.5893	8.99		
		0.6164	0.5736	6.94		
	Polycarbonate Plastic	0.6199	0.5987	3.42	5.72	
		0.6213	0.5803	6.60		
		0.6202	0.5759	7.14		
	Ceramic	0.6485	0.6154	5.10	5.72	
		0.6512	0.5992	7.99		
		0.6352	0.6093	4.08		
GS DX-50	Stainless Steel 304	0.6339	0.5929	6.47	10.14	10.44
		0.6503	0.5094	21.67		
		0.6390	0.6244	2.28		
	Polycarbonate Plastic	0.6181	0.4712	23.77	9.00	
		0.7541	0.7400	1.87		
		0.6669	0.6579	1.35		
	Ceramic	0.6173	0.5446	11.78	12.18	
		0.6104	0.5303	13.12		
		0.6237	0.5511	11.64		

Summary:

Conclusion: Green Seal DX-50 performed best with 10.44% average removal. Ecologo DX-50 performed next best with 5.91% average removal. Consume Nature's Way performed worst with 3.71% removal. In conclusion, none of the cleaners performed adequately. Further testing will require modification of test protocol.