CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 03/23/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #3

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Calcium/lime

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test Clorox Clean-up Cleaner + Bleach and its efficiency in removing bathroom soil from substrates.

Experimental Procedure: Material were gathered before running this test. Nine coupons in total were used which included: ceramic, plastic, and chrome. Initial weights of each substrate were taken and soiled with 0.5 grams of Bathroom soil. The soil was allowed 24 hours of air dry time at room temperature before dirty weights were taken. After the dirty weights were recorded, each substrate was manually wiped using the SLW machine and wypall wipes. Two sprays on each coupon along with the wypall was added before beginning the SLW machine process.

Results:

Cleaner	Substrate	Coupon	Initial	Dirty	Clean	Initial wt. of contamination	Final wt. of contamination	% Removal	Average % removal	Product removal
1	A	13	50.306	50.3844	50.3104	0.0784	0.0044	94.39	94.27	88.83
		150	54.2982	54.374	54.302	0.0758	0.0038	94.99		
		34	51.5538	51.6562	51.5605	0.1024	0.0067	93.46		
	B	16	32.197	32.2896	32.22	0.0926	0.023	75.16	79.76	
		20	34.0501	34.1388	34.0687	0.0887	0.0186	79.03		
		22	34.0519	34.1378	34.0647	0.0859	0.0128	85.10		
	C	21	22.0583	22.1269	22.0634	0.0686	0.0051	92.56	92.44	
		22	20.674	20.7536	20.6792	0.0796	0.0052	93.47		
		12	21.9361	22.021	21.9435	0.0849	0.0074	91.28		

Summary:

Conclusion: Clorox Clean-up Cleaner and Bleach was effective for overall soil removal from substrates (89%). Average percent removal of plastic was lower than ceramic and chrome, lowering overall removal rating. It should be noted that there was still residue left on a few on the coupons due to the imperfection of the SLW machine. Overall, the product does in fact remove bathroom soil from these substrates.