CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2019

DateRun: 07/02/2019

Experimenters: Lily Green

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Vinyl Composite Tiles

PartType: Coupon

Contaminants: Carbon Deposits, Food

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To compare the effectiveness of two cleaners on removing DCC 17 soil from painted VCT coupons.

Experimental Procedure: Three pre-weighed and L value measured coupons per cleaner were contaminated with 0.5g of DCC-17 soil (33 wt.% vegetable shortening, 33 wt.% lard, 33 wt.% vegetable oil, and 1 wt.% carbon lampblack) and air dried at room temperature (68˚F) for 24 hours. Contaminated weights and L values were recorded before placing three coupons per cleaner into the Gardner Straight Line Washability (SLW) unit. A Kimberly-Clark Wypal reinforced paper towel was attached to the cleaning sled. The Wypall and each coupon were treated with two sprays and cleaned for 20 cycles (~30 seconds of cleaning). Cleaned coupons were wiped once with a dry paper towel before final weights were taken.

Results:

Better Life Floor

Initial wt. of cont.	Final wt. of cont.	% Cont. Removed	% Average
0.3124	0.0198	93.66	95.02
0.2867	0.0233	91.87	
0.3138	0.0015	99.52	

Better Life L Values

Initial L	Cont. L	Clean L	% DET	% Average
94.75	35.40	79.97	75.10	77.95
95.65	25.78	80.15	77.82	
96.78	27.93	83.66	80.94	

Method Floor

Initial wt. of cont.	Final wt. of cont.	% Cont. Removed	% Average
0.3024	0.0148	95.11	95.75
0.2805	0.0040	98.57	
0.3074	0.0198	93.56	

Method L Values

Initial L	Cont. L	Clean L	% DET	% Average
96.46	23.44	82.77	81.25	83.96
96.79	19.92	84.22	83.65	
97.38	22.98	87.69	86.98	

Summary:

Substrates:	Vinyl Composite Tiles				
Contaminants:	Carbon Deposits, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Better Life	Floor Cleaner Citrus Mint	100%	95.02	☑	
Method	Method Squirt and Mop Floor Cleaner	100%	95.75	☑	

Conclusion: Both cleaners were considered effective at removing the DCC-17, but Method Floor had more effective stain removal.