CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2006
DateRun:	03/30/2006
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Ceramics, Fiberglass, Chrome
PartType:	Coupon
Contaminants:	Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To reevaluate supplied product at higher concentration for bathroom cleaning.
Experimental Procedure:	The supplied cleaning product was diluted to the vendor's new recommended concentrations for bathroom cleaning using DI water (3.125%). Three preweighed fiberglass, ceramic and chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: Vaseline Dry Skin Lotion 21.4%, Dial Clean Rinsing Body Wash 14.3%, Market Basket Shampoo & Conditioner (Pert)28.6%, Soft Soap Natural Liquid hand soap 21.4%, Coast Deodorant bar soap 7.2% and Water 7.1%) using a hand held swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. Three coupons were placed into a Gardner Straight Line Washability unit. A Professional Painter's Rag was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The cleaning unit was run for 20 cycles (~33 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded, efficiencies were calculated and recorded.
Results:	The product was effective on two of three substrates. The fiberglass cleaning was just under the 85% cut off. However, the overall performance was considered acceptable removing just under 90%. The table below list the amount of soil added, the amount reaming and the efficiency for each substrate.

Cleaner	Initial wt	Final wt	% Removed
Ceramic	0.3716	0.0109	97.07
	0.5033	0.0186	96.30
	0.4951	0.0387	92.18
Fiberglass	0.4254	0.0738	82.65
	0.5608	0.1127	79.90
	0.5124	0.0553	89.21
Chrome	0.3293	0.0193	94.14
	0.2221	0.0277	87.53
	0.4056	0.0428	89.45

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Perma Inc	Easy Mix Foaming Restroom Cleaner #1040	3.125	89.83	☑	

Conclusion: The Perma Easy Mix Foaming Restroom Cleaner 1040 overall cleaning average was over the 85% cut off when used at the higher concentration.