CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2024
DateRun:	04/03/2024
Experimenters:	Amelia Wagner
ClientType:	Manufacturing
ProjectNumber:	Project #1
Substrates:	Laminate
PartType:	Coupon
Contaminants:	Adhesive
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric, Timing
Purpose:	To evaluate the ears of removal of adhesive using a variety of scrubbing tools
Experimental Procedure:	Five scrubbing tools were tested. A total of fifteen laminate coupons were used, three per tool. The initial weights of the coupons were recorded. The coupons were then soiled with Roberts Vinyl Composition Floor Adhesive by heating the adhesive with a heat gun for 5 seconds, and then scraping the melted adhesive onto the center of the coupons. The dirty weights of the coupons were then recorded. Each coupon was cleaned with the correct scrubbing tool with Krud Kutter until all of the adhesive was removed. Each coupon received 2 sprays of the Krud Kutter and each tool received 2 sprays of the Krud Kutter, meaning that for each coupon about 3 ml of the cleaning agent was used. The time it took for all of the adhesive to be removed was recorded.

Results:

Tool	Wt of cont.	Time cleaned (secs)	Time required per gram of cont.	AVG Time (secs)
Handle Brush	0.9612	25	25	38
	0.7585	37	49	
	0.3553	14	39	
White Flat Drill Attachment	0.9759	9	9	35
	0.4984	24	48	
	0.5414	26	47	
White Round Drill Attachment	1.2993	23	28	31
	1.2145	9	7	
	0.3397	20	58	
Yellow Flat Drill Attachment	0.8326	8	9	20
	0.8052	24	30	
	1.1488	24	21	
Yellow Round Drill Attachment	1.3179	13	10	23
	0.4255	15	34	
	0.5496	13	24	

Summary:

Conclusion: They Yellow Drill Attachments worked the quickest, between 20 and 23 seconds per gram of soil.