CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 04/10/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Inks

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.

Cleaning: 5 min Immersion cleaning with stir-bar agitation @ 120 F
Rinsing: 1/2 min, manual, in 102 F water (tap)
Drying: 1 min with heat gun @ 500F
Contaminant: Cerdec magenta Ink CAS# 119-64-2, 65997-18-4, 1345-24-0, 20667-12-3

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Inks				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Florida Chemical Company	Citrus Burst 7	100	34.96	☐	
Florida Chemical Company	D-Limonene	100	52.79	☐	
Brulin Corporation	Nature Sol 100	100	97.90	☑	
Twin Rivers Technologies	Methyl Ester 1618	100	7.49	☐	
AG Environmental Products	Canola Gold CE110	100	-50.58	☐	
AG Environmental Products	Soy Gold 1000	100	-56.64	☐	
AG Environmental Products	Soy Gold 2000	100	4.97	☐	
AG Environmental Products	Soy Clear 1500	100	96.76	☑	
United Laboratories International	United 2002 Harvest Gold	100	-31.45	☐	
Vertec BioSolvents	VertecBio Gold Unscented Part Cleaner	100	-59.38	☐	
EcoLink	Vortex	100	39.23	☐	
Finger Lakes Chemical	2-22 D Limonene Industrial Cleaner	100	-54.97	☐	

Conclusion: Many coupons look as if they would be significantly cleaned with just wipe. The ink has been softened, lifted or dissolved to enhance removal. See trial 236A for follow-up.