CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	04/01/2008
Experimenters:	Heidi Wilcox
ClientType:	Electronics Manufacturer
ProjectNumber:	Project #1
Substrates:	Alloys, Aluminum, Brass, Copper, Plastic, Stainless Steel
PartType:	Part
Contaminants:	Cutting/Tapping Fluids
Cleaning Methods:	Mechanical Agitation
Analytical Methods:	Visual
Purpose:	To evaluate top cleaning products on client supplied parts for their inspection
Experimental Procedure:	Four of the top products previously used in testing to clean the two client supplied soils were chosen to clean client supplied parts with. All four cleaners had a removal efficiency of well over 99% for both the Trimsol and the Hard Cut. The parts were taken out of the client supplied bags, sectioned in to 4 groups so all 8 types of parts would be cleaned in each cleaner. Each cleaner was put in a bowl and a metal mesh basket was used to dunk and swirl the parts in the solutions. The parts were then put on a tray and when done were bagged for transport to the client. There was no rinse or drying involved. The process was done to as closely replicate the process used on site as possible.
Results:	All four products removed oils from the parts and could be seen in the bowls of cleaners. Some oil or residual solvent was seen on the plastic when parts were put in the bag. This may not be an issue since parts receive a second cleaning either by degreaser or aqueous washer later in the process. Metal fine removal seemed very important at this step.

Summary:

Substrates:	Alloys, Aluminum, Brass, Copper, Plastic, Stainless Steel				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Kyzen Corporation	Metalnox M6381	100	0.00	☑	
Gemtek Products	SC Actisolv Safety Solvent	100	0.00	☑	
1st Envirosafety Inc. - No Longer Exists	Organic Cleaner/Degreaser - For Comparison Purposes Only	100	0.00	☑	
Dysol	DS 800 Solvent	100	0.00	☑	

Conclusion: The client supplied parts will be brought back to the client for QA/QC inspection to see if any of the cleaners can be used as a substitute to their current cleaning process.