CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	08/19/2004
Experimenters:	Jason Marshall
ClientType:	Jewelry Mfr
ProjectNumber:	Project #1
Substrates:	Brass
PartType:	Part
Contaminants:	Buffing/Polishing Compounds
Cleaning Methods:	Ultrasonics
Analytical Methods:	Photography, Visual
Purpose:	To evaluate best cleaning product on supplied parts.
Experimental Procedure:	The Oakite product was selected based on results from the previous trials. The product was used at a 5% dilution, heated to 130F in a Crest 40 kHz ultrasonic unit and degassed for 10 minutes. One part with each contaminant was cleaned for 5 minutes using ultrasonic energy, then rinsed in tap water at 120F for 15 seconds and finally dried using air blow off for 30 seconds at room temperature. Parts were photographed before and after cleaning.
Results:	The short part that had been run through the buffing process appeared to be mostly cleaned after five minutes of ultrasonic cleaning. The longer part that had gone through the milling process still had contamination stuck in the grooved section. However the hole on the end was cleared of any contamination. An additional five minutes of cleaning was performed on the grooved end of the brass part. At the conclusion, a majority of the contamination was removed from the groove. Pictures have been included for the pre- and post cleaning of the two parts.

Summary:

Substrates:	Brass				
Contaminants:	Buffing/Polishing Compounds				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Oakite Products	Inproclean 3800	5	0.00	☑	10 minutes for the grooved part

Conclusion: The Inproclean 3800 showed signs of cleaning the supplied parts. Additional cleaning time, increased concentration or increased cleaning time appears to be needed for complete removal of the contamination from the grooved pieces.