CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 05/17/1999

Experimenters: Jason Marshall

ClientType: Department of Public Works

ProjectNumber: Project #1

Substrates: Aluminum, Brass, Carbon Steel, Rubber, Stainless Steel, Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Rust/Scale, Dirt, Oxides, Oil

Cleaning Methods: Manual Wipe

Analytical Methods:

Purpose: Information request

Experimental Procedure:

Results: I have enclosed some information on the three main chemicals in the Safety Kleen product. I tried to highlight some of the more important health risks associated with each chemical. If you have any questions on these, let me know and we can discuss them in more detail.

I have found a couple of the CAS#s from the few oil products at the Greenfield DPW. They have been successfully removed for similar cleaning situations. The reports on the Mass Highway testings that I gave you is one of the examples for successful cleaning. I have included eight products which I feel would be a better alternative to TCE, TCA and Benzene for cleaning the oil and grease from the parts.
Since these products have been tested before on some of the contaminants, I think it would be a good idea for me to obtain a couple of dirty parts from the DPW to evaluate the cleaners on actual parts. Ask the DPW for eight dirty parts (one for each cleaner) that they will not miss for a couple of days.
If you have any questions, feel free to give me a call at (978)934-3133.

Substitute Products		
Manufacturer	Product	Classification
WR Grace	Daraclean 282	Alkaline Aqueous
EMKAY	Safety Wash	Alkaline Aqueous
Safe CleanUp	Super-Neutral	Aqueous
Envirosolutions	SolSafe 245	Alcohol-aliphatic hydrocarbon
AG Environmental	Soy Gold 2000	Soy Methyl Ester
International Products	Micro 90	Alkaline Aqueous
Gemtek Products	SC Aircraft & Metal Cleaner	Alkaline Aqueous
Watson Technical	Formula 7300	Alkaline Aqueous

Summary:

Conclusion: