Report #: 227-19 **Date:** August 10, 2019

LABORATORY REPORT

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SUBJECT: Particle Identification **SPECIMEN:** Three Sets of Tapelifts

REFERENCE: JFK

INTRODUCTION

Three sets of three tapelifts each was received for analysis.

Sample ID	Description	Analysis/Date		
		Collected		
U04	Top of Samsung Proj.	PI 7/31/19		
U05	Desktop of Computer Desk Toward Back of Will			
U08	Top of Mont			
U02L	Keyboard Tray Behind Keyboard			
U02	Keyboard			
U06	R TV Stand Leg			
U18	Top of Paper Towel Holder			
U11	Sink Countertop			
U12K	Top R Corner of			

The tapelifts were placed on clean microscope slides and immersed in acetone for about two hours and then removed. The slides with the tapelifts were rinsed with clean acetone as they were removed from the immersion tank. The tapelifts were allowed to dry for twenty minutes in a laminar flow Clean Work Station and then mounted using a synthetic resin (Shurmount). The completed mounts were analyzed using analytical light microscopy. The materials identified are listed in decreasing order of frequency, the most common materials first. The significance of a material's location in the list is not necessarily related to its health impact because some materials have a greater health impact at low levels than other materials do at high levels.

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RESULTS

Sample	Description	Glass	Particle Summary
ID		Fibers	
U04	Top of Samsung Proj.	0	Skin Flakes, Clothing Fibers, Soot, Algae, Starch
U05	Desktop of Computer Desk Toward Back of Will	4	Skin Flakes, Clothing Fibers, Spores, Paper Fiber, Mold Spores, Starch
U08	Top of Mont	2	Skin Flakes, Clothing Fibers, Metal Flake, Ink, Fungal Spores, Pollen, Bird Feather Barbules, Cosmetics, Charred Wood
U02L	Keyboard Tray Behind Keyboard	0	Skin Flakes, Pollen, Bird Feather Barbules, Clothing fibers, Cosmetics
U02	Keyboard	2	Skin Flakes, Clothing Fibers, Fungal Spores, Pollen, Metal Flakes, Minerals, Paper Fibers
U06	R TV Stand Leg	4	Skin Flakes, Paper Fibers, Clothing Fibers
U18	Top of Paper Towel Holder	0	Paper Fibers, Clothing Fibers, Skin Flakes, Cosmetics
U11	Sink Countertop	0	Skin Flakes, Paint, Clothing Fibers (Low Loading)
U12K	Top R Corner of	0	Rubber Wear, Clothing Fibers (Low Loading)

particles typically seen on these tapelifts included skin flakes, paper fiber, clothing fiber, natural minerals, plant parts, tire wear, starch, pollen, plant material, fungal spores, cosmetics, feather barbules, wear metals, silica phytoliths, and glass fiber.

Four out of the nine samples contained a total 12 short glass fibers (less then 50microns in length). Samples U06 and U05 did not meet the 2 glass fibers per square inch clearance requirement. 13 short glass fibers and 4 long glass fibers per square inch is associated with health complaint. All the samples contained normal to low particle loading.

CONCLUSION

Four out of the nine samples contained a total 12 short glass fibers (less then 50microns in length). Samples U06 and U05 did not meet the 2 glass fibers per square inch clearance requirement. The glass fiber in these samples are consistent with fibers found in acoustic ceiling tile. All the samples contained normal to low particle loading.

Thank you for this opportunity to be of service. If I can provide any further assistance, please contact me.

Signed: Heidie Crutcher, Analyst Signed: E. R. Crutcher, Consultant