

LABORATORY REPORT

TO: Chad Johnson
 EWU, EH+S
 002 Martin Hall
 Cheney, WA 99004

PHONE: (509) 359-6455 **FAX:** (509) 359-4690 **E-MAIL:** djohnson@ewu.edu
SUBJECT: Particle Identification
SPECIMEN: Four Sets of Tapelifts
REFERENCE: JFK

INTRODUCTION

Four sets of three tapelifts each was received for analysis.

<i>Sample ID</i>	<i>Description</i>	<i>Analysis/Date Collected</i>
Ser-1	On Counter Next to Beam	PI 7/29/19
Ser-2	On Counter in Front of Mont	
Ser-3	On Tabletop in Front of Lower Student 2 Mount	
AXL Class-1	Podium	PI 7/29/19
AXL Class-2	Windowsill	
AXL Class-3	R Side 3 rd Table from Back Looking Front	
L 27-3	On 2 Person Table Center Wood Clock Side	PI 7/29/19
L 27-2	Windowsill	
L 27-1	On 2 Person Table Center Wood Off ent Side	
L 23	Podium in Front of Computer	PI 7/29/19
L03	On Logtech Countertop	
L08	On Sink Countertop	

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.

RESULTS

<i>Sample ID</i>	<i>Description</i>	<i>Glass Fibers</i>	<i>Particle Summary</i>
Ser-1	On Counter Next to Beam	0	Clothing Fibers (Low Particle Loading)
Ser-2	On Counter in Front of Mont	0	Clothing Fibers, Natural Minerals, Phytoliths, Fungal Spores, Plant Debris
Ser-3	On Tabletop in Front of Lower Student 2 Mount	0	Skin Flakes, Starch, Ink, Clothing Fibers
AXL Class-1	Podium	0	Skin Flakes, Clothing Fibers, Ink, Minerals, Plant Debris
AXL Class-2	Windowsill	0	Natural Minerals
AXL Class-3	R Side 3 rd Table from Back Looking Front	0	Skin Flakes, Clothing Fibers, Spores, Insect Debris, Feather Barbules, Silica Phytoliths
L 27-3	On 2 Person Table Center Wood Clock Side	0	Skin Flakes, Clothing Fibers, Fungal Spores
L 27-2	Windowsill	0	Skin Flakes, Starch, Clothing Fibers, Natural Minerals, Fungal Spores, Plant Hair, Phytoliths, Pollen
L 27-1	On 2 Person Table Center Wood Off ent Side	2	Skin Flakes, Clothing Fibers, Paper Fibers, Plant Debris, Starch
L 23	Podium in Front of Computer	0	Paper Fibers, Skin Flakes, Cosmetics, Clothing Fibers, Natural Minerals, Paint
L03	On Logtech Countertop	3	Clothing Fibers, Shoe Wear, Skin Flakes, Paper Fibers, Starch
L08	On Sink Countertop	0	Paper Fibers, Clothing Fibers, Minerals

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

Two out of the twelve samples contained a total 5 short glass fibers (less then 50microns in length). Sample L03 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

Two out of the twelve samples contained a total 5 short glass fibers (less then 50microns in length). Sample L03 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
 Heidie Crutcher, Analyst

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