

The following samples were collected  
from JFK Library rooms:

- Upper Level
- Middle Level

Date, April 16<sup>th</sup>

LABORATORY REPORT

**TO:** Chad Johnson  
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**PHONE:** (509) 359-6455 **FAX:** (509) 359-4690 **E-MAIL:** djohnson@ewu.edu  
**SUBJECT:** Particle Identification  
**SPECIMEN:** Four Set 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>
M23C1	Windowsill	PI 4/16/19
M23C2	Top of R Mont Looking @ Front	
M23C3	Top of Docking Station	
M23D1	Windowsill	PI 4/16/19
M23D2	Keyboard	
M23D3	Face of Phone Display	
M23B-1	Top of Phone	PI 4/16/19
M23B2	Top of L Mont	
M23B3	Trough of Back Side of White Board	
U05-1	Windowsill	PI 4/16/19
U05-2	Back Corner of Summer Table	
U05-3	Bookshelf 2 <sup>nd</sup> From Top R Side	

MONIT = MONITOR

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**

Sample ID	Description	Glass Fibers	Particle Summary
M23C1	Windowsill	1	Skin Flakes, Clothing Fibers, Starch, Fungal Spores, Natural Minerals
M23C2	Top of R Mont Looking @ Front	2	Skin Flakes, Clothing Fibers, Natural Minerals, Paper Fibers
M23C3	Top of Docking Station	0	Skin Flakes, Clothing Fibers, Natural Minerals, Plant Debris
M23D1	Windowsill	14	Skin Flakes, Natural Minerals, Plant Debris, Pollen, Feather Barbules <i>Short Glass fibers 13, Long Glass Fibers 1</i>
M23D2	Keyboard	5	Skin Flakes, Starch, Clothing Fibers
M23D3	Face of Phone Display	13	Skin Flakes, Clothing Fibers, Spores, Insect Debris, Feather Barbules, Silica Phytoliths, Cosmetics
M23B-1	Top of Phone	2	Skin Flakes, Clothing Fibers, Paper Fibers, Shoe Wear, Cosmetics, Starch, Plant Debris
M23B2	Top of L Mont	2	Metal Flake, Skin Flakes, Starch, Clothing Fibers, Spores, Paper Fibers, Pollen
M23B3	Trough of Back Side of White Board	3	Skin Flakes, Clothing Fibers, Paper Fibers, Mites, Starch, Shoe Wear
U05-1	Windowsill	4	Skin Flakes, Silica Phytoliths, Natural Minerals (Low Particle Loading)
U05-2	Back Corner of <sup>Corner</sup> Summer Table	0	Skin Flakes, Clothing Fibers, Paper Fibers, Plant Debris
U05-3	Bookshelf 2 <sup>nd</sup> From Top R Side	0	Skin Flakes, Clothing Fibers (Low Particle Loading)

The 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, insect debris, cosmetics, feather barbules, wear metals, silica phytoliths, and glass fiber.

Nine out of the twelve samples contained a total 45 short glass fibers (less than 50microns in length) and 1 long glass fiber. Samples M23D1, M23D2, M23D3, M23B3 and U05-1 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**

Nine out of the twelve samples contained a total 45 short glass fibers (less than 50microns in length) and 1 long glass fiber. Samples M23D1, M23D2, M23D3, M23B3 and U05-1 did not meet the 2 glass fibers per square inch clearance requirement. 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: ERC  
 E. R. Crutcher, Consultant

# CHAIN OF CUSTODY RECORD



**Microlab Northwest**  
 7609 140th PL NE, Redmond, WA 98052  
 Phone: (425) 885-9419

MLNW LOG # 119-19

Company: Eastern Washington University  
 Contact: Chad Johnson  
 Address: FAO 202 on campus Pullman  
Cheney WA 99004

Phone: 509 359 6455 FAX: \_\_\_\_\_  
 E-Mail: DJohnson@EWU.EDU  
 PO#: \_\_\_\_\_ Job Reference: IFK

PRIORITY: 24 hour

One Week  
 (CIRCLE ONE)

Four Weeks

SAMPLE ID	DESCRIPTION	ANALYSIS REQUESTED	Collected	
			Date	Time
M23C1	Window sill	Particulate	4/16	
M23C2	Top of R mount looking East	Particulate	4/16	
M23C3	Top of Ducting station	Particulate	4/16	
M23D1	Window sill	Particulate	4/16	
M23D2	Key board	Particulate	4/16	
M23D3	Face of phone display	Particulate	4/16	
M23B-1	Top of phone	Particulate	4/16	
M23B-2	Top of L mount	Particulate	4/16	
M23B-3	Trough at back side of white board	Particulate	4/16	
M05-1	Window sill	Particulate	4/16	
M05-2	back corner of corner table	Particulate	4/16	
M05-3	back shelf end from top R side	Particulate	4/16	

Relinquished By: Chad Johnson Date/Time: 4/18/19  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_