FACS 35
Forensic Analytical Consulting Services
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January 7, 2025

TO Carey Upton
Santa Monica-Malibu School District
1717 4th St
Santa Monica, CA 90401
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Phone: 310-450-8338 ext 79383

FROM Lydia Feng, MS, CIH
Forensic Analytical Consulting Services, Inc.
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RE **Wildfire Smoke Impact Post-Remediation Assessment – Webster Elementary School (FACS# PJ84913)**

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Santa Monica-Malibu Unified School District (SMMUSD) to provide a wildfire smoke post-remediation assessment at Webster Elementary School, located at 3602 Winter Canyon Road in Malibu, California. The Franklin fire started in Malibu on December 9, 2024, and reached the edge of the Webster Elementary School campus, resulting in wildfire smoke impact to the school property. FACS provided a summary of initial assessment findings and recommendations for remediation in a report dated December 16, 2024. The district's retained remediation contractor, ATI Restoration, subsequently performed remediation in accordance with FACS recommendations. FACS performed a post-remediation assessment of accessible and representative interior areas on campus on December 27, 2024, and January 2-4, 2025. The purpose of FACS' post-remediation assessment was to document current conditions at the school and confirm that remediation efforts were adequate to ensure a safe and healthy environment for students and staff.

Assessment Findings

During the post-remediation inspection, FACS performed a visual inspection, documented sensory findings (e.g. smoke odor), and collected air quality measurements and micro-vacuum dust samples. Measurements for airborne particulates (PM10 and PM2.5) were collected using an aerosol mass concentration monitor (TSI DustTrak). Micro-vacuum dust samples were collected from carpeting and analyzed by polarized light microscopy (PLM) to determine the percentage of the visual area of dust particulate composed of various particulate types (a technique known as visual area estimation - VAE). The following is a summary of findings:

December 27, 2024

To evaluate cleaning efforts by ATI Restoration for carpet material and fabric chairs, FACS collected micro-vacuum dust samples for particle identification. Samples were collected from selected rooms as directed by ATI Restoration. Results of the micro-vacuum dust indicated either none-detected (ND) or trace amounts (<1%) of smoke related particulate (e.g., char) in the settled dust indicating cleaning efforts were adequate in removing smoke related particulate to typical background levels.

January 2, 2025

Exterior

- A mild smoke odor was present.
- Burned vegetation was visible on the hillside adjacent to the campus.

- Majority of wildfire debris had been cleared from the campus grounds. Minor debris still present on campus.

Building A—Classrooms 17, 18, 19, 20

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering devices were present in the rooms and running.
- Hydroxyl generator deodorizers were observed in the rooms; some were running.
- Results of micro-vacuum dust samples from carpeting indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.
- Inspection of a representative HVAC air handling unit confirmed that the unit had been cleaned following the wildfire, as no visible dust deposition, including smoke related particulate was identified, and filters had been changed on 12/14/24. Reportedly all other units not assessed were cleaned using similar cleaning methods and filters also changed.

Building B—Classrooms 11, 12

- Numerous bags containing contents were marked for removal/disposal.
- No observable smoke odor was present.
- Interior surfaces and remaining furnishings/contents (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering devices were present in the rooms and running.
- Hydroxyl generator deodorizers were observed in the rooms.
- Results indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.
- Inspection of a representative HVAC air handling unit confirmed that the unit had been cleaned following the wildfire, as no visible dust deposition, including smoke related particulate was identified, and filters had been changed on 12/14/24. Reportedly all other units not assessed were cleaned using similar cleaning methods and filters also changed.

Building C—Classrooms 13, 14, 15, 16, 16A

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering devices were present and most were running.
- Hydroxyl generator deodorizers were observed in the rooms; most were no longer running.
- Results of micro-vacuum dust samples from carpeting indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.

- Inspection of a representative HVAC air handling unit confirmed that the unit had been cleaned following the wildfire, as no visible dust deposition, including smoke related particulate was identified, and filters had been changed on 12/14/24. Reportedly all other units not assessed were cleaned using similar cleaning methods and filters also changed.

Building E—Classrooms 7

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3 ; PM10 <54 µg/m^3).
- Air filtering devices were present and running.
- Results of micro-vacuum dust samples from carpeting indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.
- Inspection of a representative HVAC air handling unit confirmed that the unit had been cleaned following the wildfire, as no visible dust deposition, including smoke related particulate was identified, and filters had been changed on 12/14/24. Reportedly all other units not assessed were cleaned using similar cleaning methods and filters also changed.

Building F—Classrooms 8, 9

- Various contents and garbage bags containing contents were marked for disposal, reportedly due to concern that the special education students in these classrooms might put objects in their mouths.
- No observable smoke odor was present.
- Interior surfaces and remaining furnishings/contents (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering devices were present; one in Classroom 8 was running.
- Hydroxyl generator deodorizers were present in the rooms but were not running.
- Results of micro-vacuum dust samples from carpeting indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.
- Inspection of a representative HVAC air handling unit confirmed that the unit had been cleaned following the wildfire, as no visible dust deposition, including smoke related particulate was identified, and filters had been changed on 12/14/24. Reportedly all other units not assessed were cleaned using similar cleaning methods and filters also changed.

<u>January 4, 2025</u>

Building D— Admin Building

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.

- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3 ; PM10 <54 µg/m^3).
- Air filtering devices were present and running.
- Hydroxyl generator deodorizers were present and running.
- Results of micro-vacuum dust samples from carpeting indicated only trace amounts (<1%) of the sampled dust were composed of char and ash, which is consistent with typical background levels.

Building G— Cafeteria Building

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM10 <54 µg/m^3), or "Moderate" (PM2.5 <35 µg/m^3) in areas where crews were present immediately prior to testing.
- Air filtering devices were present in the building and running.
- Inspection of the HVAC air handling unit confirmed that the unit had been cleaned, as no visible dust deposition, including smoke related particulate was identified, following the wildfire and filters had been recently changed.

Portable 21 — Girls & Boys Club

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering device was present in the room and running.
- Hydroxyl generator deodorizer was present in the room and running.
- Micro-vacuum dust sample results indicated only trace amounts (<1%) of the sampled dust was composed of char and ash, which is consistent with typical background levels.
- Inspection of the HVAC air handling unit confirmed that the unit had been cleaned, as no visible dust deposition, including smoke related particulate was identified, following the wildfire.

Portable R4 — Girls & Boys Club

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared clean. No visible smoke-related particulate (i.e., char and ash) was observed.
- Measurements for PM10 and PM2.5 within the rooms generally indicated concentrations considered to be "Good" per the EPA Air Quality Index (AQI) criteria (PM2.5 <9 µg/m^3; PM10 <54 µg/m^3).
- Air filtering device was present in the room and running.

The data collected in the course of the investigation is presented in this report as follows:

- Attachment A: Campus map
- Attachment B: Photographs (depicting inspection observations)

- Attachment C: Laboratory report and chain of custody forms

Conclusions and Recommendations

Based on assessment findings collected during the post-remediation assessments, there are no additional recommendations for the completed interior surfaces on campus noted above. However, site conditions identified and documented by FACS on the dates of the assessments may change due to environmental conditions such as wind, additional flare ups, or tracking in of debris from other locations, which may result in impact not previously identified by FACS. Additional and routine cleaning should be performed as needed; refer to general recommendations for remediation in the initial FACS report dated December 16, 2024.

Per SMMUSD representatives, remediation has not been completed at the following buildings and post-remediation inspection will be requested at a later date:

- Building H (due to direct fire damage)
- Library (part of Building E)
- Portables adjacent to Boys & Girls Club.

Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise, and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our offices at 310-668-5600 with any questions or concerns. Thank you for the opportunity to assist SMMUSD in promoting a more healthful environment.

Respectfully,

FORENSIC ANALYTICAL

Lydia Feng, MS, CIH
Senior Project Manager

Reviewed by:

FORENSIC ANALYTICAL

Michelle Rosales, MPH, CIH
Director of Environmental Health Services

ATTACHMENT A

Campus Map

ATTACHMENT B

Supporting Photographs

Photo #1: Classroom 20 - overview

Photo #2: Classroom 20 – Air filtering device (example)

Photo #3: Classroom 20 – Air filtering device (example)

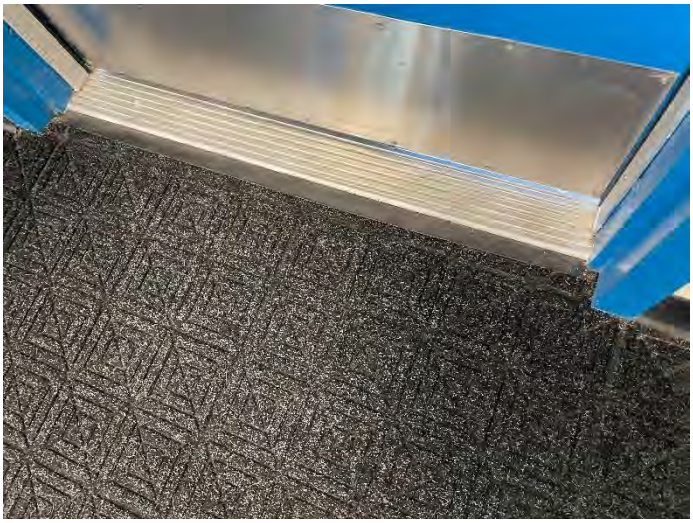

Photo #4: Classroom 20 – Floors cleaned (example)

Photo #5: Classroom 20 – Surfaces cleaned (example)

Photo #6: Classroom 20 – Contents cleaned (example)

Photo #7: Classroom 19 - overview

Photo #8: Classroom 19 – deodorizer (example)

Photo #9: Classroom 18 - overview

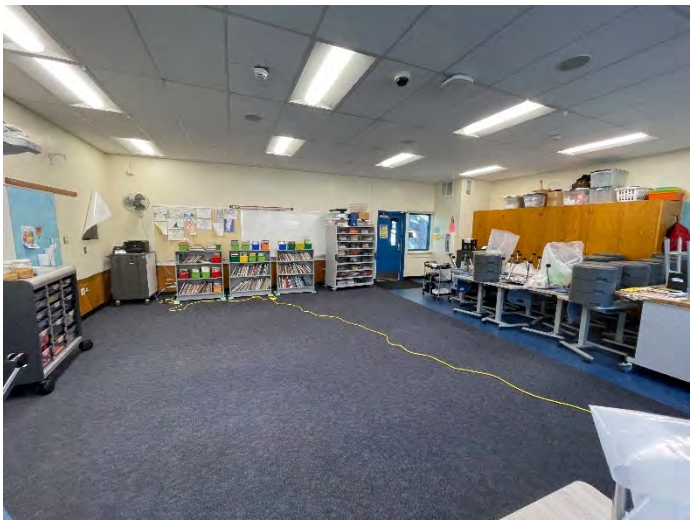

Photo #10: Classroom 17 - overview

Photo #11: Classroom 11 – overview (bags of contents marked for removal)

Photo #12: Classroom 12 – overview (bags of contents marked for removal)

Photo #13: HVAC AHU (representative/example) – Building C, Rm 13

Photo #14: HVAC AHU (representative/example) – Building C, Rm 13 – filter recently changed

Photo #15: HVAC AHU (representative/example) – Building C, Rm 13 – surfaces clean

Photo #16: HVAC AHU (representative/example) – Building C, Rm 13 – surfaces clean

Photo #17: Classroom 14 - overview

Photo #18: Classroom 13 - overview

Photo #19: Classroom 15 - overview

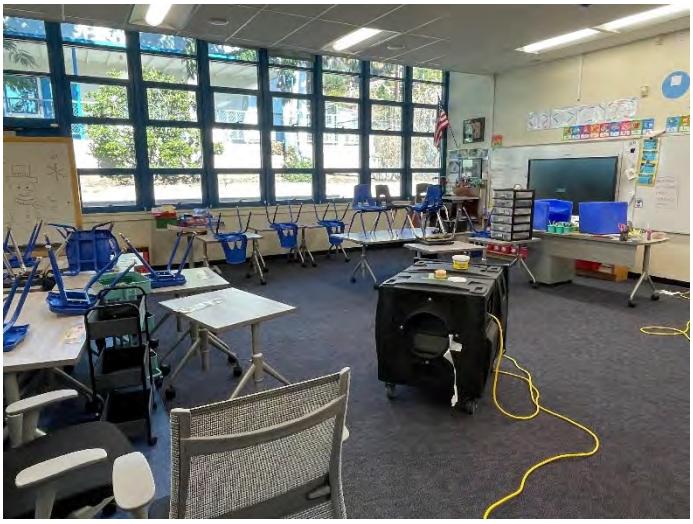

Photo #20: Classroom 16 - overview

Photo #21: Classroom 16A - overview

Photo #22: Classroom 8 - overview

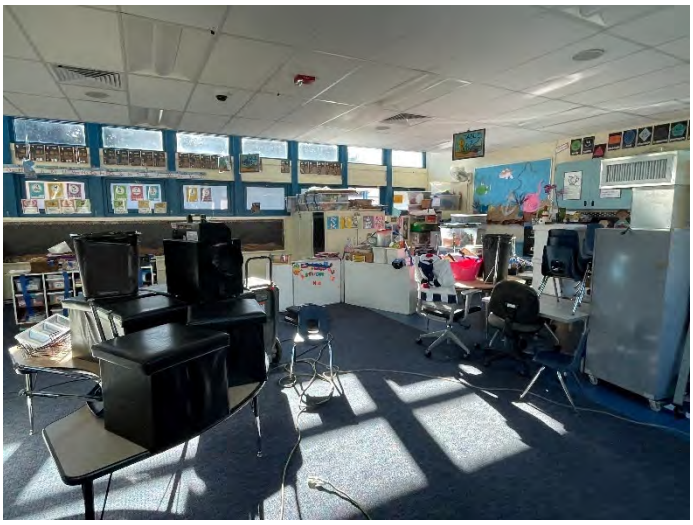

Photo #23: Classroom 9 - overview

Photo #24: Classroom 10 - overview

Photo #25: Classroom 7 - overview

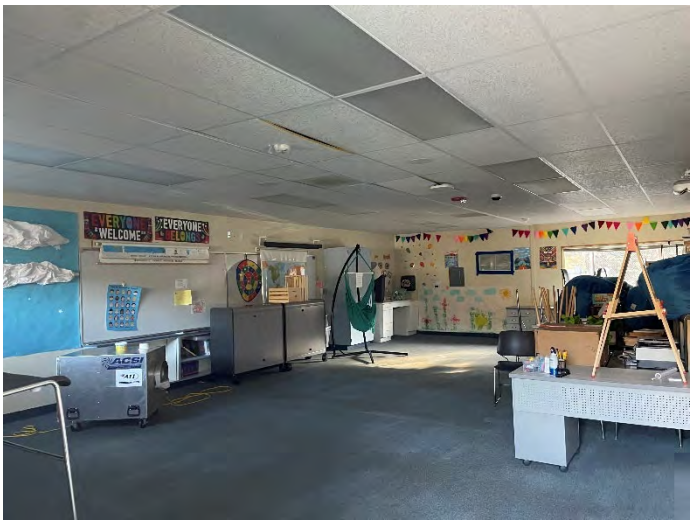

Photo #26: Portable 21 - Boys and Girls Club- overview

Photo #27: Portable R4 - Boys and Girls Club- overview

Photo #28: Admin Building (Bldg D) – Office - overview

Photo #29: Admin Building – Nurse Office - overview

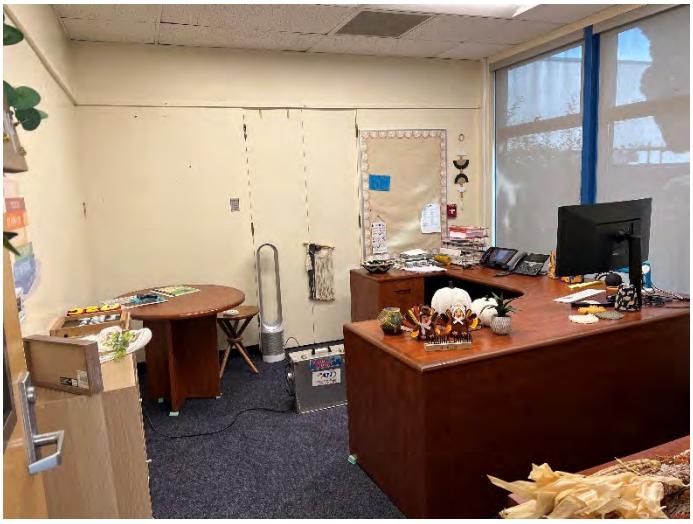

Photo #30: Admin Building – Admin Office - overview

Photo #31: Admin Building – Work Printer Area - overview

Photo #32: Cafeteria Building (Bldg G) – Storage - overview

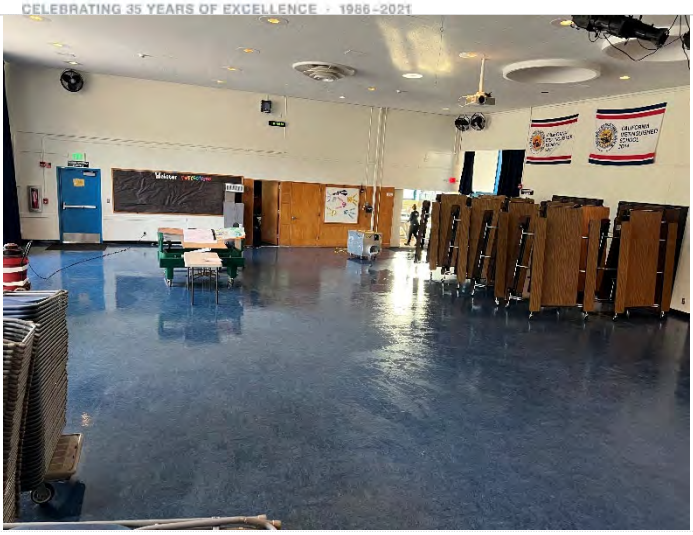

Photo #33: Cafeteria Building (Bldg G) – Cafeteria - overview

Photo #34: Cafeteria Building (Bldg G) – Supply Room - overview

Photo #35: Cafeteria Building (Bldg G) – Kitchen - overview

Photo #36: Cafeteria Building (Bldg G) – Lunch Room - overview

Photo #37: Cafeteria Building (Bldg G) – Counseling Room - overview

ATTACHMENT C

Laboratory Report and Chain of Custody Documentation

PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs
Madeleine Dangazyan
4900 Airport Plaza Suite 115

Long Beach, CA 90815

Client ID: LA05
Report Number: P020358
Date Received: 12/28/24
Date Analyzed: 12/28/24
Date Printed: 12/28/24
First Reported: 12/28/24

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265
Date(s) Collected: 12/27/2024

SGSFL Job ID: LA05
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	%	Gross Description	%
MV01	12785959		**BUILDING B - CRM 11 - CARPET FLOOR**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		15	Soil minerals	55
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	10
			Insect parts	5
			Epithelial cells	3
			Insect Frass	3
			Opaques (inconsistent with combustion products)	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	Trace
			Pyrolized plant material (char)	Trace
MV02	12785960		**BUILDING F - CRM 9 - CHAIR CUSHION**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	51
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	15
			Epithelial cells	15
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Pollen	2
			Rubber	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

3777 Depot Road, Suite 409, Hayward, CA 94545 | Phone: 510.887.8828 / 800.827.3274 Fax: 510.887.4218 | https://falaboratories.sgs.com

PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020358

Sample ID	Lab Number	%	Gross Description	%
MV03	12785961		**BUILDING C - CRM 15- CHAIR CUSHION**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	56
Cellulose		2	Epithelial cells	15
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	10
			Fungal spores	5
			Opaques (inconsistent with combustion products)	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV04	12785962		**BUILDING A - CRM 17 - CHAIR CUSHION**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	54
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	20
			Epithelial cells	10
			Insect Frass	2
			Opaques (inconsistent with combustion products)	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV05	12785963		**LIBRARY - CHAIR CUSHION**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Cellulose		3	Soil minerals	68
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	10
			Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Pollen	2
			Rubber	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

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PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020358

Sample ID	Lab Number	%	Gross Description	%
MV06	12785964		**BUILDING B - CRM 12 - CARPET FLOOR**	
Sample Type: Microvac	Sample Loading:		Light	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Cellulose		5	Soil minerals	66
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	15
			Epithelial cells	5
			Opaques (inconsistent with combustion products)	2
			Rubber	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV07	12785965		**BUILDING A - CRM 18 - CHAIR/STOOL**	
Sample Type: Microvac	Sample Loading:		Blank	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
None detected			Opaques (inconsistent with combustion products)	ND
Misc. Components, fibrous & non-fibrous:		100	Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	ND
MV08	12785966		**BUILDING F - CRM 10 - CHAIR/STOOL**	
Sample Type: Microvac	Sample Loading:		Extremely light	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Carbonate minerals	5
Misc. Components, fibrous & non-fibrous:		90	Opaques (inconsistent with combustion products)	ND
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	ND
MV09	12785967		**BUILDING F - CRM 8 - CHAIR/STOOL**	
Sample Type: Microvac	Sample Loading:		Extremely light	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Cellulose		5	Carbonate minerals	10
Misc. Components, fibrous & non-fibrous:		85	Opaques (inconsistent with combustion products)	ND
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	ND

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PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020358

Sample ID	Lab Number	%	Gross Description	%

Maria Cosper, Lead Lab Supervisor

3777 Depot Road, Suite 409, Hayward, CA 94545 | Phone: 510.887.8828 / 800.827.3274 Fax: 510.887.4218 | https://falaboratories.sgs.com

FACS
Forensic Analytical Consulting Services

Smoke Impact Assessment
Analysis Request Form (COC)

Name & Address:
Forensic Analytical Consulting Services, Inc. (LA05)
4900 Airport Plaza Dr. Suite 115
Long Beach, CA 90815

Contact: Rebecca Schiffer
Phone: (310)668-5600 **Fax:** (310)763-8684
E-mail: WFSsupport-LA@forensicanalytical.com

Site: PJ 24913 / Webster ES - WFS Clearance / 3602 Winter Canyon Rd, Malibu, CA

PO/Job#: PJ 24913 **Date:** 12/27/24

Turn Around Time:
☒ Same Day / ☐ 1 Day / ☐ 3 Day / ☒ 5 Day

Analysis Type:
☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot
☐ Particle Identification (TEM LAB) ☐ Special Project
☐ Limited Particle Identification with pH
☒ Limited Particle Identification
☐ Carbonaceous and dark opaque particles and/or ash components.

Comments: Also email results to: lydia.f@facs.com

Hold Samples: ☒ Yes ☐ No

Report Via: ☐ Fax ☒ E-mail

Sample ID	Sample Location / Description	Sample Type
MV01	Building B - CRM 11 - Carpet Floor	MV
MV02	Building F - CRM 9 - Chair Cushion	
MV03	Building C - CRM 15 - Chair Cushion	
MV04	Building A - CRM 17 - Chair Cushion	
MV05	Library - Chair cushion	
MV06	Building B - CRM 12 - Carpet Floor	
MV07	Building A - CRM 18 - Chair/Stool	
MV08	Building F - CRM 10 - Chair/Stool	
MV09	Building F - CRM 8 - Chair/Stool	

Sample Type: T = Tape, MV = Microvac, S = Swab, B = Bulk

Sampled By: Israel Jaramillo Date: 12/27/24 Time: Various

Shipped Via: ☒ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished By:	Relinquished By:	Relinquished By:
Israel Jaramillo Date / Time: 12/27/24 (15:30)	Date / Time:	Date / Time:
Received By: Cosper **Date / Time:** 12/28/24 10AM FX Condition Acceptable? ☐ Yes ☐ No	**Received By:** **Date / Time:** Condition Acceptable? ☐ Yes ☐ No	**Received By:** **Date / Time:** Condition Acceptable? ☐ Yes ☐ No

PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs
Madeleine Dangazyan
4900 Airport Plaza Suite 115

Long Beach, CA 90815

Client ID: LA05
Report Number: P020361
Date Received: 01/03/25
Date Analyzed: 01/03/25
Date Printed: 01/03/25
First Reported: 01/03/25

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265
Date(s) Collected: 01/02/2025

SGSFL Job ID: LA05
Total Samples Submitted: 13
Total Samples Analyzed: 13

Sample ID	Lab Number	%	Gross Description	%
MV01	12786486		**BLDG A - RM 20 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	58
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV02	12786487		**BLDG A - RM 19 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	56
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	Trace
			Pyrolized plant material (char)	Trace

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PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020361

Sample ID	Lab Number	%	Gross Description	%
MV03	12786488		**BLDG A - RM 18 - CARPET**	
Sample Type: Microvac	Sample Loading: Moderate			
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	51
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	Trace
			Pyrolized plant material (char)	Trace
MV04	12786489		**BLDG A - RM 17 - CARPET**	
Sample Type: Microvac	Sample Loading: Moderate			
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	51
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	Trace
			Pyrolized plant material (char)	Trace
MV05	12786490		**BLDG C - RM 14 - CARPET**	
Sample Type: Microvac	Sample Loading: Moderate			
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	60
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	15
			Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

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Forensic Analytical Consulting Svcs

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Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020361

Sample ID	Lab Number	%	Gross Description	%
MV06	12786491		**BLDG C - RM 13 - MATS**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	63
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV07	12786492		**BLDG C - RM 15 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Cellulose		5	Soil minerals	57
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	20
			Epithelial cells	10
			Opaques (inconsistent with combustion products)	3
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV08	12786493		**BLDG C - RM 16 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	51
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

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PLM Characterization

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Report Number: P020361

Sample ID	Lab Number	%	Gross Description	%
MV09	12786494		**BLDG C - RM 16A - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	51
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV10	12786495		**BLDG F - RM 8 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	41
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Organic debris	10
			Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

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PLM Characterization

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Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265

Report Number: P020361

Sample ID	Lab Number	%	Gross Description	%
MV11	12786496		**BLDG F - RM 9 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	43
Misc. Components, fibrous & non-fibrous:		5	Carbonate minerals	15
			Organic debris	10
			Epithelial cells	5
			Insect parts	5
			Opaques (inconsistent with combustion products)	3
			Insect Frass	2
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV12	12786497		**BLDG F - RM 10 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	63
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace
MV13	12786498		**BLDG E - RM 7 - CARPET**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		5	Soil minerals	63
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Fungal spores	2
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

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PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
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Report Number: P020361

Sample ID	Lab Number	%	Gross Description	%

Maria Cosper, Lead Lab Supervisor

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Forensic Analytical Laboratories, Inc.

Analysis Request Form (COC)

Client Name & Address: FACS- LA 4900 Airport Plaza Dr, Suite 115 Long Beach, CA 90815	PO / Job#: PJ84913 Date: 1/2/25 Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day ☐ PCM: ☐ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer ☐ PLM: ☐ Standard / ☐ Point Count 400 - 1000 / ☐ CARB 435
Contact: L. Feng Phone: (310) 668-5600 Fax: E-mail: lydia.f@facs.com Site: Webster Elementary School Site Location: 3602 Winter Canyon Rd, Malibu, CA 90265	☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield ☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass) ☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project ☐ Metals Analysis: Method: Matrix: Analytes:
Comments: **Limited Particle ID - Wildfire Smoke Assessment**	Report Via: ☐ Fax ☒ E-Mail ☐ Verbal

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
MV01	1/2/25	BLDG A - RM 20 - CARPET	A P C				
MV02		BLDG A - RM 19 - CARPET	A P C				
MV03		BLDG A - RM 18 - CARPET	A P C				
MV04		BLDG A - RM 17 - CARPET	A P C				
MV05		BLDG C - RM 14 - CARPET	A P C				
MV06		BLDG C - RM 13 - MATS	A P C				
MV07		BLDG C - RM 15 - CARPET	A P C				
MV08		BLDG C - RM 16 - CARPET	A P C				
MV09		BLDG C - RM 16A - CARPET	A P C				
MV10	↓	BLDG F - RM 8 - CARPET	A P C				

Sampled By: L. FENG Date: 1/2/24 Time:

Shipped Via: ☒ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished By: Lydia Feng Date / Time: 1/2/24 4:05 PM	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: FX 7603 Date / Time: 1/3/25 10:00am Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No

Forensic Analytical Laboratories, Inc.

Analysis Request Form (COC)

Client Name & Address: FACS- LA 4900 Airport Plaza Dr, Suite 115 Long Beach, CA 90815	PO / Job#: PJ84913 Date: 1/2/25 Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day ☐ PCM: ☐ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer ☐ PLM: ☐ Standard / ☐ Point Count 400 - 1000 / ☐ CARB 435
Contact: L. Feng Phone: (310) 668-5600 Fax:	☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield ☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass)
E-mail: lydia.f@facs.com	☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project
Site: Webster Elementary School Site Location: 3602 Winter Canyon Rd, Malibu, CA 90265	☐ Metals Analysis: Method: Matrix: Analytes:
Comments: **Limited Particle ID - Wildfire Smoke Assessment**	Report Via: ☐ Fax ☒ E-Mail ☐ Verbal

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
MV11	1/2/25	BLDG F- RM 9- CARPET	A P C				
MV12	↓	BLDG F-RM 10- CARPET	A P C				
MV13	↓	BLDG E - RM 7 - CARPET	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: L.FENG Date: 1/2/25 Time:

Shipped Via: ☒ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished By: Lydia Feng Date / Time: 1/2/25 4:05 PM	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: FX 7803 Date / Time: 1/3/25 10:00 AM Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No

Final Report

PLM Characterization

(Visual Area Estimation)

Forensic Analytical Consulting Svcs
Madeleine Dangazyan
4900 Airport Plaza Suite 115

Long Beach, CA 90815

Client ID: LA05
Report Number: P020363
Date Received: 01/07/25
Date Analyzed: 01/07/25
Date Printed: 01/07/25
First Reported: 01/07/25

Job ID/Site: PJ84913; Santa Monica - Malibu Unified School District SMMUSD (ASCIP)
Webster ES - WFS Assessment 3602 Winter Canyon Road Malibu CA 90265
Date(s) Collected: 01/04/2025

SGSFL Job ID: LA05
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample ID	Lab Number	%	Gross Description	%
MV14	12786994		**BOYS AND GIRLS CLUB PORTABLE 21**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	58
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		5	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Pollen	2
			Opaques (soot)	ND
			Plant ash (white ash)	Trace
			Pyrolized plant material (char)	Trace
MV15	12786995		**BUILDING D - OFFICE**	
Sample Type: Microvac	Sample Loading:		Moderate	
Fibrous Particle(s):			**Non-Fibrous Particle(s):**	
Synthetics		10	Soil minerals	58
Cellulose		2	Carbonate minerals	15
Misc. Components, fibrous & non-fibrous:		7	Epithelial cells	5
			Opaques (inconsistent with combustion products)	3
			Opaques (soot)	ND
			Plant ash (white ash)	ND
			Pyrolized plant material (char)	Trace

Maria Cosper, Lead Lab Supervisor

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Forensic Analytical Laboratories, Inc.

Analysis Request Form (COC)

Client Name & Address: FACS- LA 4900 Airport Plaza Dr, Suite 115 Long Beach, CA 90815	PO / Job#: PJ84913 Date: 1/4/25 Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day ☐ PCM: ☐ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer ☐ PLM: ☐ Standard / ☐ Point Count 400 - 1000 / ☐ CARB 435
Contact: L. Feng Phone: (310) 668-5600 Fax: E-mail: lydia.f@facs.com Site: Webster Elementary School Site Location: 3602 Winter Canyon Rd, Malibu, CA 90265	☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield ☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass) ☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project ☐ Metals Analysis: Method: Matrix: Analytes:
Comments: **Limited Particle ID - Wildfire Smoke Assessment**	Report Via: ☐ Fax ☒ E-Mail ☐ Verbal

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
MV14	1/4/25	Boys and Girls club Portable 21	A P C				
MV15	1/4/25	Building D - Office	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: Tiffany Nguyen Date: 1/4/25 Time:

Shipped Via: ☒ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished By: Tiffany Date / Time: 1/4/25 4:00pm	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: FX5384 Date / Time: 1/7/25 9:30am Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No	Received By: Date / Time: Condition Acceptable? ☐ Yes ☐ No

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Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Ph: (310)763-2374 * (888)813-9417 / Fax: (310)763-4450
Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Ph: (702)784-0040 / Fax: (702)784-0030