



2211 West Orangewood Avenue
 Orange, CA 92868
 Tel: (714) 937-0750
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 www.envirocheck.com
 (800) 665-7586



Combustion By-Product (CBP) Laboratory Report

Customer: Pasadena Unified School District
 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: Hamilton Elementary
 2089 Rose Villa Street
 Pasadena, CA 91107

Lab ID	1525010198	1525010199	1525010200	1525010201	1525010202	1525010203	1525010204	1525010205	1525010206	1525010207
Sample #	1	2	3	4	5	6	7	8	9	10
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Micro-vac, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Micro-vac, Tape-lift
Soot (Black Carbon)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	<1%	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<1%
Ash (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	7.18	7.27	7.18	7.08	7.02	6.76	7.00	7.21	6.65	7.37

Location	A102 - Blockshelf	A107 - East Fixture at Window	A - 2nd Floor Corridor Window North	A204 - Teacher's Desk	A202 - Area Carpet	B - Lounge Table Top	B - Entry Door Handle Main	B211 - Cabinet Top Entry Point	B206 - Blue Shelf	B - Front Office Carpet
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Notes										
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Components:

Fibrous Material	x	x	x	x	x	x	x	x	x	x
Fungal Material										
Material Consistent With Carbon Black										
Paint								x		
Plant Material					x	x		x	x	x
Rubber										
Rust/Metal Flakes		x		x				x		x
Other	x	x	x	x	x	x	x	x	x	x

Sampled: 01/17/2025 Received: 01/18/2025 Analyzed: 01/18/2025 Report: 01/20/2025

Analysts: Erasmo Lopez Elaine Espique Admin QC: CN Lab QC: RCC

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscope) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.



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Job Location: Hamilton Elementary
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Lab ID	1525010208	1525010209	1525010210	1525010211	1525010212	1525010213	1525010214	1525010215	1525010216	1525010217
Sample #	11	12	13	14	15	16	17	18	19	20
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Micro-vac, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift
Soot (Black Carbon)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	N.D.	<1%	N.D.	N.D.	N.D.	N.D.	N.D.	<1%	N.D.	N.D.
Ash (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	6.84	7.21	6.73	6.74	6.92	6.66	6.92	6.90	7.07	7.02
Location	C - East Entry Door Handle	C - Auditorium Piano Top	C - Service Counter	C - Kitchen Serving Line	D111 - Library Window Sill	D115 - Projector Stand	D225 - Desk Top	D111 - Library Carpet	Multipurpose - E141 Window Sill	F - Desk

Notes										
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Components:

Fibrous Material	x	x	x	x		x	x	x	x	x
Fungal Material										
Material Consistent With Carbon Black										
Paint										
Plant Material		x	x			x	x	x	x	
Rubber										
Rust/Metal Flakes		x					x	x		x
Other	x	x	x	x	x	x	x	x	x	x

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscope) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.



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Job Location: Hamilton Elementary
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 Pasadena, CA 91107

Lab ID 1525010218

Sample # 21

Sample Type Wipe,
Tape-lift

Soot (Black Carbon) **N.D.**

Char (Carbonized Material) **N.D.**

Ash (Carbonized Material) **N.D.**

pH **7.39**

Location H - Desk at
Window

Notes																			
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Components:

Fibrous Material	x																		
Fungal Material																			
Material Consistent With Carbon Black																			
Paint																			
Plant Material																			
Rubber																			
Rust/Metal Flakes	x																		
Other	x																		

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscopy) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.