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Combustion By-Product (CBP) Laboratory Report

<p>Customer: Pasadena Unified School District 351 South Hudson Avenue Pasadena, CA 91109</p>	<p>Job Location: Pasadena High School 2925 East Sierra Madre Boulevard Pasadena, CA 91107</p>
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Lab ID	1525010816	1525010817	1525010818	1525010819	1525010820	1525010821	1525010822	1525010823	1525010824	1525010825
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	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift
Soot (Black Carbon)	N.D.	N.D.	N.D.	N.D.	<1%	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	6.92	7.33	7.66	7.81	7.75	7.76	7.89	7.80	7.68	8.14
Location	R103 (Concessions) Countertop	R104 (Ticket Booth) Mat	R107 Gymnasium East Bleachers	R107 Gymnasium West Bleachers	R108 Weight Room Bench	R111 Basketball Team Room Locker 108	S104 Office Couch	S117 Boy's Locker Room #101	S117 Boy's Locker Bench at #476	S110 Team Room #44



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										
Plant Material										
Rubber										
Rust/Metal Flakes	X				X	X				
Other										

Sampled: 01/23/2025 Received: 01/24/2025 Analyzed: 01/24/2025 Report: 01/24/2025

Analysts:  Russell Chhith  Arturo Valdez Admin QC: CN Lab QC: EE

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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Combustion By-Product (CBP) Laboratory Report

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

Job Location: Pasadena High School
 2925 East Sierra Madre Boulevard
 Pasadena, CA 91107

Lab ID	1525010826	1525010827	1525010828	1525010829	1525010830	1525010831	1525010832	1525010833	1525010834
Sample #	11	12	13	14	15	16	17	18	19
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, 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.
Char (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.
pH	8.17	7.77	7.92	8.52	8.08	8.31	8.22	7.96	7.69
Location	S114 Team Room #45	S105 Training Room Massage Table	S121 Office Filing Cabinet	S119 Refrigerator	S138 #16 Shelf	S137 Top of Storage Container	S136 Bench	Girl's Locker Room Bench at 741	Girl's Locker Room Shelf of 429

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									
Rubber									
Rust/Metal Flakes			X					X	
Other									

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.

Client: Pasadena Unified School District
 Contact: Manuel Carrasco
 Job Location: 2925 East Sierra Madre Blvd
 Pasadena, CA 91107



Analyzed Date: 1/25/2025

Lab ID: 1525010816

* Preliminary Results - Pending Final Quality Control Review *

Combustion By-Product (CBP)

1				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R103 (Concessions) Countertop	N.D.	N.D.	N.D.
2				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R104 (Ticket Booth) Mat	N.D.	N.D.	N.D.
3				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R107 Gymnasium East Bleachers	N.D.	N.D.	N.D.
4				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R107 Gymnasium West Bleachers	N.D.	N.D.	N.D.
5				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R108 Weight Room Bench	<1%	N.D.	N.D.
6				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	R111 Basketball Team Room Locker 108	N.D.	N.D.	N.D.
7				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S104 Office Couch	N.D.	N.D.	N.D.

8

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S117 Boy's Locker Room #101	N.D.	N.D.	N.D.

9

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S117 Boy's Locker Bench at #476	N.D.	N.D.	N.D.

10

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S110 Team Room #44	N.D.	N.D.	N.D.

11

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S114 Team Room #45	N.D.	N.D.	N.D.

12

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S105 Training Room Massage Table	N.D.	N.D.	N.D.

13

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S121 Office Filing Cabinet	N.D.	N.D.	N.D.

14

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S119 Refrigerator	N.D.	N.D.	N.D.

15

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S138 #16 Shelf	N.D.	N.D.	N.D.

16

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S137 Top of Storage Container	N.D.	N.D.	N.D.

17

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	S136 Bench	N.D.	N.D.	N.D.

18

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Girl's Locker Room Bench at 741	N.D.	N.D.	N.D.

19

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Girl's Locker Room Shelf of 429	N.D.	N.D.	N.D.

20

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - Bleacher Seat	N.D.	N.D.	N.D.

21

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - East Door Entry Handle	N.D.	N.D.	N.D.

22

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - Dance Room - Floor Center	N.D.	N.D.	N.D.

23

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - T102 - PE Room - Table Massage	N.D.	N.D.	N.D.

24

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - T101 - Desktop	N.D.	N.D.	N.D.

25

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building T - Gym - Ball Machine	N.D.	N.D.	N.D.

26

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A101A - Nurse Table/Bed	N.D.	N.D.	N.D.

27

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - Administration Main COUNER	N.D.	N.D.	N.D.

28

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A104 - South Window Sill	N.D.	N.D.	N.D.

29

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A111D - Refrigerator Top	N.D.	N.D.	N.D.

30

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A201 - North Window Sill	N.D.	N.D.	N.D.

31

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A206 - Student's Desk	N.D.	N.D.	N.D.

32

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building A - A209 - Projector Stand	N.D.	N.D.	N.D.

33

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Student Dining - Table Below Window	N.D.	N.D.	N.D.

34

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Faculty Dining - Coffee Table	N.D.	N.D.	N.D.

35

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Cafeteria - Serving Counter	N.D.	N.D.	N.D.

36

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Cafeteria - Serving Line	N.D.	N.D.	N.D.

37

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Kitchen - Prep Table	N.D.	N.D.	N.D.

38

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building U - Kitchen - Office Desk	N.D.	N.D.	N.D.

39

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Campus Safety - Microwave at Window	N.D.	N.D.	N.D.

40

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building W - Kitchen Prep Counter	N.D.	N.D.	N.D.

41

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building D -- Library - North Bookshelf at Window	N.D.	N.D.	N.D.

42

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building D - Work Room - Top of Book	N.D.	N.D.	N.D.

43

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building D - Library - Table 14	N.D.	N.D.	N.D.

44

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building G - G102 - Computer Desk	N.D.	N.D.	N.D.

45

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building G - G106 - Top of Piano/Keyboard	N.D.	N.D.	N.D.

46

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building G - G211 - Student's Desk at Entry	N.D.	N.D.	N.D.

47

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building G - G207 - Top of Laptop	N.D.	N.D.	N.D.

48

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building G - G203 - Standing Desk	N.D.	N.D.	N.D.

49

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building F - Little Theater - Couch	N.D.	N.D.	N.D.

50

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building F - Little Theater - North Door Handle	N.D.	N.D.	N.D.

51

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building N - N102 - Top of Art Frames	N.D.	N.D.	N.D.

52

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building N - N106 - Head PC Top at Window	N.D.	N.D.	N.D.

53

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building P - Roland Printer - P103	N.D.	N.D.	N.D.

54

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building P - P106 - Cabinet at Vent	N.D.	N.D.	N.D.

55

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building Q - Q103 - North Door Handle	N.D.	N.D.	N.D.

56

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building Q - Q107 - Car Seat	N.D.	N.D.	N.D.

57

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building H - H111 - Desktop	N.D.	N.D.	N.D.

58

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building H - H107 - Countertop at Window	N.D.	N.D.	N.D.

59

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building H - H103 - Work Table	N.D.	N.D.	N.D.

60

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building H - H212 - Teacher's Desk	N.D.	N.D.	N.D.

61

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building H - H204 - Projector Top	N.D.	N.D.	N.D.

62

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building B - Auditorium - Podium	N.D.	N.D.	N.D.

63

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building B - Auditorium - Seat T6	N.D.	N.D.	N.D.

64

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building B - Control Room Table	N.D.	N.D.	N.D.

65

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building B - Prop Room - Stairs	N.D.	N.D.	N.D.

66

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building I - I112 - Ping Pong Table	N.D.	<1%	N.D.

67

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building I - I106 - Top of Display Cabinet	N.D.	N.D.	N.D.

68

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building I - I209 - Towel Dispenser at Vent	N.D.	N.D.	N.D.

69

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building I - I205 - Bookshelf	N.D.	N.D.	N.D.

70

Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building I - I201 - Pencil Boxtop	N.D.	N.D.	N.D.

71				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building E - E103 - Top of Chair at Window	N.D.	N.D.	N.D.
72				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building E - E109 - Teacher's Desk	N.D.	N.D.	N.D.
73				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building E - E109 - Round Table	N.D.	<1%	N.D.
74				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building E - E210 - Top of Textbook	N.D.	N.D.	N.D.
75				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building E - E206 - Keyboard	N.D.	N.D.	N.D.
76				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building C - Band Room - Piano Top	N.D.	N.D.	N.D.
77				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building C - C101 - Student Keyboard	N.D.	N.D.	N.D.
78				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building C - C106A - Office Desk	N.D.	N.D.	N.D.
79				
Sample Type	Location	Soot %	Char %	Ash %
Wipe, Tape-lift	Building C - C109 - Chair	N.D.	N.D.	N.D.