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Combustion By-Product / Testing / Analysis

Jobsite:

**CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
CORPORATION YARD
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032**

Prepared For:

MS. BARBARA L. QUEEN
CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032

January 16, 2025

PROJECT No. **E225-004**

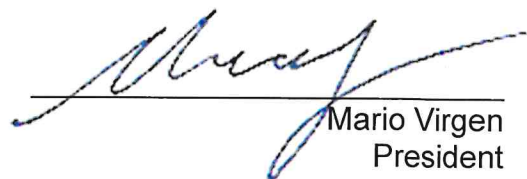

Mario Virgen
President

TABLE OF CONTENTS

	SECTION
1.0 EXECUTIVE SUMMARY	I
1.1 General Information	
1.2 Tasks	
2.0 METHODOLOGY.....	II
2.1 Sampling	
2.2 Sampling Procedures and Analysis	
2.3 Report Format	
3.0 FINDINGS AND RECOMMENDATIONS.....	III
3.1 General Summary	
3.2 Recommendations	
4.0 WARRANTY	IV

APPENDICES

- A. Sampling Log
 - B. Analytical Reports
 - C. Sampling Scheme
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Barbara L. Queen
Planning, Design & Construction
California State University, Los Angeles (CSULA)
5151 University Dr.
Los Angeles, CA 90032

Re: Combustion By-Product Testing
California State University, Los Angeles (CSULA)
Corporation Yard
5151 University Dr.
Los Angeles, CA 90032

GETC Project No. E225-004

Dear Ms. Queen,

Global Environmental Training & Consulting (GETC) performed Ambient Air Testing for Combustion By-Product (Char, Soot, & Ash) at the above referenced property. GETC has reviewed the results from the accredited laboratory and based on the samples taken on January 12, 2025, throughout Corporation Yard, results have concluded that all areas identified are below the outside background sample for Combustion By-Products.

Thank you for choosing GETC as the consultant for this project. If you have any questions, or if we can be of service again in the future, please do not hesitate to contact our office at (626) 962-4436.

Respectfully submitted,

Global Environmental Training & Consulting, Inc.
Mario Virgen, I.H.
President

Enclosures

1.0 EXECUTIVE SUMMARY

1.1 GENERAL INFORMATION

Global Environmental Training and Consulting, Inc. (GETC) was retained by the California State University, Los Angeles (CSULA) to conduct Ambient Air Quality Testing for Combustion By-Products at Corporation Yard located at 5151 University Dr., in Los Angeles, California.

Carbon Black is a fine-grained solid residue that results from incomplete combustion of hydrocarbons. This testing is designed for analysis of fire residues for presence of analytes of interest (Char, Black Carbon/Soot, & Ash). The results of this test offer the client valuable information related to the extent of contamination produced by a fire from a residence or wildfire. These results can be used for cleaning assessment.

The sample collection was performed by GETC Industrial Hygienist Mr. Chris Virgen.

1.2 TASKS

GETC Performed Ambient Air Quality Testing for Combustion By-Product that included the following tasks:

- ◆ Collect Air Samples using Allergenco Cassettes within Corporation Yard (6 Total) – For Combustion By-Product Analysis.
- ◆ Air Samples were collected following the ASTM D6602-13 Standards, “Standard Practices for sampling and testing of possible Carbon Black Fugitive Emissions or Environmental Particulates.”

SAMPLING TABLE COMBUSTION BY-PRODUCT (CHAR, SOOT, & ASH)

CORPORATION YARD					
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	EAST FLOOR LOBBY	220	13	47	280
02	BREAKROOM – ROOM 0136	273	13	27	313
03	OUTSIDE (CONTROL)	19,540	127	493	20,160
04	CENTER OF ROOM 0202	87	0	13	100
05	HALLWAY NEAR 0245	240	7	47	294
06	HALLWAY NEAR 0232	193	0	20	213

2.0 METHODOLOGY

This section includes the description of the methodologies used to perform the Combustion By-Product Sampling and Analysis. These methodologies include air sampling analysis.

2.1 AIR SAMPLING

- Collect and submit for analysis samples for Combustion By-Product from within Corporation Yard.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Six (6) air samples from Corporation Yard. Methods & Equipment:

- ♦ Polarized Light Microscopy (PLM)
- ♦ epi-Reflected Light Microscopy (RLM)

The samples were numbered and shipped to a laboratory accredited under the American Industrial Hygiene Association (AIHA) and Environmental Proficiency Analytical Testing Program (EPAT).

Chain-of-Custody Procedures

Chain-of-Custody documents possession of the samples from the time they are collected until they have been analyzed and are stored. Custody documentation must be followed whenever materials are received, collected, transferred, stored, analyzed, or destroyed.

The original Chain-of-Custody is to accompany the materials at all times. Custody documentation will begin at the time a sample is collected. Each transferor should retain a copy of the Chain-of-Custody record.

Laboratory Quality Control Program

Pasteur Laboratory maintains an in-house quality control program. This program involves precision and accuracy controls, use of standard bulk reference materials, maintenance of national and state accreditation, participation in external and internal proficiency testing programs, and confirmation of analyst experience and qualification in compliance with specific internal training and competency requirements.

2.3 REPORT FORMAT

This report has been organized in a manner that presents the data in several forms to best suit the needs of the property. The "Executive Summary" provides a description of the facility and analytical results for each area tested. The Air Sampling Log, Appendix A, contains detailed information on the locations of areas sampled. The "Analytical Reports", Appendix B, is a listing of samples taken and their Combustion By-Product Content.

3.0 FINDINGS AND RECOMMENDATIONS

3.1 GENERAL SUMMARY

- ◆ Sampling Logs & COC in Appendix A.
- ◆ Complete lab analyses for Combustion By-Products are given in Appendix B.
- ◆ Sampling Scheme is given in Appendix C.

3.2 RECOMMENDATIONS

Since all indoor air samples are below the Outside (Control) sample, Global Environmental Training & Consulting, Inc. (GETC) has no recommendations at this time.

4.0 WARRANTY

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of airborne Combustion By-Product Compounds in Corporation Yard. Global Environmental Training & Consulting, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in the report.

The air sampling and analytical methods have been used to provide the client with information regarding the presence of Combustion By-Product Compounds existing in the Corporation Yard at the time of sampling. Test results are valid only for the areas tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study of which were not apparent during the site visit.

No other warranties are implied or expressed.

APPENDIX A

AIR SAMPLING LOG

E-mail: microbiology99@aol.com

Page 1 of 1

—X Ash, Soft and Char

[illegible]

APPENDIX B

ANALYTICAL REPORTS

1/13/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:	00028-25-0042
Date Collected:	January 12, 2025
Date Received:	January 13, 2025
Date Analyzed:	January 13, 2025

Sample(s) analyzed: 6

Laboratory Sample ID	12376			12377			12378			12379		
Client Sample ID	01			02			03			04		
Location	1st Fl Lobby			Backroom Rm 0136			Outside (control)			Center of Rm 0202		
Volume (L)	150			150			150			150		
Background Debris*	Light			Light			Heavy			Light		
Sample Description	AllergencoD			AllergencoD			AllergencoD			AllergencoD		
	Raw cts	No. /m ³	%	Raw ct	No. /m ³	%	Raw cts	No. /m ³	%	Raw cts	No. /m ³	%
Char particulate:	33	220	78.57	41	273	87.22	2931	19,540	96.92	13	87	87.00
Soot particulate	2	13	4.64	2	13	4.15	19	127	0.63	0	0	0.00
Ash:	7	47	16.79	4	27	8.63	74	493	2.45	2	13	13.00
Total numbers / m ³	280			313			20,160			100		
Comments												
Limit of Detection	7			7			7			7		

"Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from very heavy background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples submitted and analyzed*

Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

Page 1 of 1

1/13/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

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APPENDIX C

SAMPLING SCHEME

