

1520 W. Cameron Ave., Suite 103 ♦ West Covina, CA 91790 Ph. 626-962-4436 ♦ Fx. 626-962-4437 ♦ www.globalenvirotraining.com

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 №. **E225-004**

Mario Virgen President

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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 №. 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

Chain of Custody / Microbiology Sample Log



	diani of dastoay / wild balology dalliple Log									
						REQL	ESTE	REQUESTED SERVICES	ICES	NOTES:
*	Pasteur Laboratory					0	HECK	(CHECK BOXES)	<u></u>	
¥ ¹ 1	158 N. Glendora Ave., Suite S (2nd floor)					Non - Culturable	able	Cultu	Culturable	-
	Glendora, CA 91741 Tel: (626) 963-8686		7		1	(1)	Tape Swab	Anderson, Swab, Water, Bulk, Dust, Soil	Anderson, Swab, ster, Bulk, Dust, S.	
	E-mail: microbiology99@aol.com		Page) 19		Lab	Bulk	Contac	Contact Plate	*
	CONTACT INFORMATION	N		,					(:	how
Company: Global Env	Company: Global Environmental Training & Consulting	Address: 1520	Address: 1520 W. Cameron Ave., Suite 103, West Covina, CA	uite 103, West C	ovina, CA			-	 ->n	<u>フ</u>
Contact: Mario Virgen / Miguel Virgen	/ Miguel Virgen	Fax results Y / N		Fax & Invoice to: 626-962-4437	2-4437		am			
Phone: 626-962-4436		Email results Y / N		staff@globalenvirotraining.com	g.com		×∃∶			_
	PROJECT INFORMATION	NT L	P	TIME - (TA)			oiqo			_
Project Name: CSULA -	•						osc			
Project Number: E225-004		ND - 24 Hour (+50%)	ır (+50%)	Rushes received after 2pm	ed after 2pm		Nicr			
Sampling Date: January 13, 2025	ary 18, 2025	sp - Same	sp - Same Day (+75%)	considered	received the		l toe		_	
	7/	WH - Weeken	WH - Weekend/Holiday (+100%)	next business day.	day.		Dire			
Sample ID	Sample Location	Sample	TAT Flow	Time	Total	- ign 8 ign	- igr	- igr	ooli /	_
		Type (/	(Above) Rate	-	Volume		ıп⊣	-	_	
0,	2									×
00	000 Com 1000 Com					15				,
200	Oldr C						1		-	1
0	Koor	dayst .								
<0	6			3.)KC			
90	Hallway near 0232			3.						-1
				*						ī
				35				1	+	T
								-	+	T
						Ī			+	T
									*	T
									$\mid \cdot \mid$	T T
		à							+	
		RELING	RELINQUISHED BY	DATE	REC	RECEIVED BY	_ _	DATE	-	- TK
AP - Andersen Plate	2	3	7	1/13/25					3	
Air-	All - Allerger							/	2	
M2 Allogro M2	S - SWab BL - Bulk)	İ	(1)		
IVIZ - Allegro IVIZ -	INZ - Allegro IVIZ - Multimold Cassette		5.3					1		

APPENDIX B ANALYTICAL REPORTS

Char / Soot / Ash Particulate Report (Aerosol Samples)

1520 W. Cameron Ave., Suite 103, West Covina, CA 91790

1/13/2025

Global Environmental Training & Consulting

Tel: 626-962-4436 Fax: 626-962-4437

E-mail: staff@globalenvirotraining.com

Mario Virgen/Miguel Virgen



Pasteur Laboratory

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: Date Received:

January 12, 2025

Date Analyzed:

January 13, 2025 January 13, 2025

Client's Project: CSULA - C	orporation	on Yard	E225-0	04		Samp	le(s) an	alyzed:	6				
Laboratory Sample ID		12376		12377			T T	12378		12379			
Client Sample ID		01			02			03			04		
Location	1	st FI Lob	by	Back	room Rr	n 0136	Out	tside (con	trol)	Center of Rm 0202			
Volume (L)		150			150			150			150		
Background Debris*		Light			Light			Heavy			Light		
Sample Description		Allergenc			Allergenc		A	llergenco	D	-	Allergenc	oD	
		No. /m°	%	Raw c	No./m	%	Raw cts	No./m ³	%	Raw ct	No./m°	%	
Char particulate:	33	220	78.57	41	273	87.22	2931	19,540	96.92	13	87	87.00	
												-	
		n.											
									-			-	
	2 13 4.64 2 13												
Soot particulate	2	13	4.64	2	13	4.15	19	127	0.63	0	0	0.00	
												-	
							OF THE						
	7	47	16.79	4	27	8.63	74	493	2.45	2	13	40.00	
Ash:			10.73	-	21	0.03	74	493	2.45	2	13	13.00	
							-			-1			
							- 0	T					
Total numbers / m³		280		313				20,160		100			
Comments													
Limit of Detection *Background debris is an indica	1	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 ny 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

Char / Soot / Ash Particulate Report (Aerosol Samples)

1520 W. Cameron Ave., Suite 103, West Covina, CA 91790

1/13/2025

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Mario Virgen/Miguel Virgen



Pasteur Laboratory

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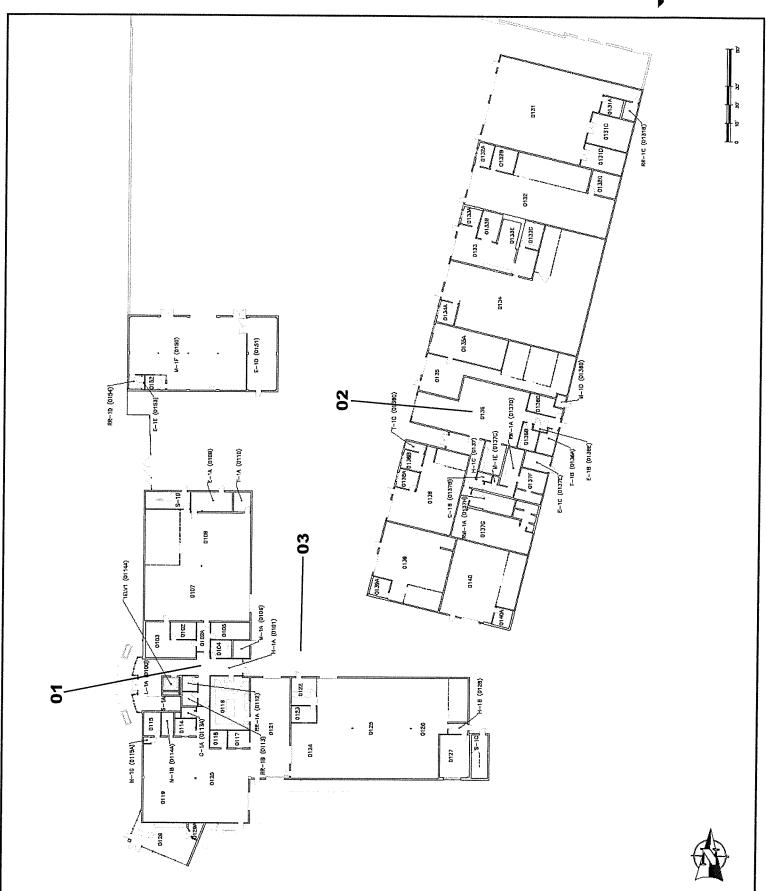
E-mail: microbiology99@aol.com

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

Client's Project: CSULA - Corporation Yard E225-004			04		Samp	le(s) an	alyzed:	6				
Laboratory Sample ID		12380			12381					T		
Client Sample ID		05			06							
Location	Hallwa	ay near R	m 0245	Hallwa	y near F	Rm 0232						
Volume (L)		150		1	150					-		
Background Debris*		Light			Light				-	1		
Sample Description	P	Allergence	οD		llergenc	oD				1		
	Raw ct	No. /m°	%	Raw ct	No./m	%						
Char particulate:	36	240	81.63	29	193	90.61						
												1
												1
				1=1					†			1
£												1
									1	1		1
										1		1
										1-		1
Soot particulate	1	7	2.38	0	0	0.00						1
									1	1		
									1	1		_
				Lanca Control								+
				17.5								
Ash:	7	47	15.99	3	20	9.39						
*												
						\square						
										-		-
Total numbers / m³		294		213				-			-	
Comments								•				
imit of Detection		7			7.		<	#VALUI	<u> </u>	<	#VALU	E!
Background debris is an indic	ation of an	ounts of	biologica	al and no								

*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 and is personnel shall not be held liable for any misuse or interpretation of information supplied by us. This report relates only to samples and is personnel shall not be held liable for any misuse or interpretation of information supplied by us. This report relates only to samples and is personnel shall not be held liable for any misuse or interpretation of information supplied by us. This report relates only to samples and is personnel shall not be held liable for any misuse or interpretation of information supplied by us. This report relates only to samples and the sample of the

APPENDIX C SAMPLING SCHEME





СОКРОКАТІОИ УАКD

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LAST UPDATED: 12-10-17



