



POST-DISINFECTION CORONAVIRUS-19 FIELD VERIFICATION TESTING REPORT

CLIENT: Mitchell Gayer
NJIT
333 Martin Luther King Blvd
Newark, NJ 07102

SITE LOCATION: NJIT
333 Martin Luther King Blvd
Newark, NJ 07102

SCOPE OF WORK: COVID-19 Verification Testing

AREAS TESTED: Campus Wide

CLIENT CONTACT(S): Mitchell Gayer

SITE EVALUATION CONDUCTED: 9/08-09/2020

DATE OF REPORT: 9/11/2020

REPORT PREPARED BY: Kadeem Hill

REPORT REVIEWED BY: Veronica Kero P.E., CIH

{Omega Project#: 20-1175}

Table of Contents

<u>Executive Summary</u>	3
<u>Project Overview</u>	3
• Project Overview/Scope of Work	
• Bio-Load and COVID-19 Field Sampling & Analysis Protocol	
<u>ATP Direct Read: Bioluminescence</u>	4
• ATP Direct Read Meter Data	
• Data Interpretation	
• Field Notes	
<u>COVID-19 PCR DNA Sequencing</u>	13
• SARS-CoV-2 PCR DNA Swab Sample Results	
• SARS-CoV-2 PCR DNA Air Sample Results	
• Data Interpretation	
<u>Attachments</u>	16
• Laboratory analysis reports with chain-of-custody	

Executive Summary:

On 9/8/20 and 9/9/20 Omega Environmental Services conducted Coronavirus verification testing in Faculty Memorial Hall (FMH), The Campus Center, Weston Hall, and The Central King Building of the NJIT campus. The purpose of this testing was to document adequate disinfection and cleaning by the NJIT maintenance staff.

Parameter	Results
Adenosine Triphosphate (ATP) Direct Reads: Bioluminescence Meter (Detects Bacteria and Bio-Load)	<ul style="list-style-type: none">•10 out of the 125 samples resulted in elevated ATP levels.•All of the surfaces with elevated ATP levels were recleaned by NJIT Building Services and retested. Retest results indicated acceptable levels of ATP on all recleaned surfaces
Coronavirus-19 PCR Swab	<ul style="list-style-type: none">•Laboratory results indicates all the SARS-Cov-2 samples taken on 9/8/20 and 9/9/20 were negative

Bio-Load and COVID-19 Field Sampling & Analysis Protocol:

While a COVID-19 PCR DNA sequencing field testing method has become available, pre-screen methods that apply to overall bacteria cleaning are being employed to more efficiently clear areas and reduce testing costs.

- **REAL-TIME FIELD SCREEN USING ATP DIRECT-READ BIO-LUMINESCENCE METER AND WHITE CLOTH TESTS:** Omega field IH to inspect room and collect ATP swabs on all component basis to assess overall cleaning thoroughness. If there are ATP swab results statistically above “typical background,” re-cleaning of the room will be requested followed by repeat ATP testing before proceeding with further testing.
- **COVID-19 PCR DNA SEQUENCING METHOD:** Once a room passes above described bio-load testing protocols, a COVID-19 PCR swab will be collected from alternating room locations.
- **COVID-19 PCR AIR SAMPLING METHOD:** Air samples are collected using a linear oscillating pump in conjunction with a 0.3 µm Polytetrafluoroethylene (PTFE) filter housed 37 mm cassettes. The pump pulls the air from the surrounding area into the cassette where any airborne virus particulates are captured. The samples are collected at a flow rate of 15 liters per minute (LPM), for 2 hours, totaling 1800 liters. Once sampling is complete, samples are shipped to an independent laboratory for analysis. Samples are analyzed via a polymerase chain reaction (PCR) method. The PCR method relies on a protein responsible for DNA replication in cells, please note this protein will only replicate DNA strands that match the COVID-19 sequence. If replication exceeds a threshold established by the laboratory the sample is determined to be positive for the COVID-19 strand. Test results should be used as metrics for cleaning success rather than a direct estimator for infection potential.

Definitions:

ATP - Adenosine Triphosphate

RLU – Relative Light Unit

*- Elevated ATP Levels

ATP Direct Read: Bio-Luminescence Meter (*Hygiene/Ensure*) Data:

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
1	09/08/2020 11:49 AM	Faculty Memorial Hall (FMH)	110	Light Switch	49	105	211	
2	09/08/2020 11:50 AM	Faculty Memorial Hall (FMH)	110	Instructor's Podium	59	105	211	
3	09/08/2020 11:51 AM	Faculty Memorial Hall (FMH)	110	Extron Control Box	48	105	211	
4	09/08/2020 11:52 AM	Faculty Memorial Hall (FMH)	110	Door Handle	81	105	211	Classroom Side
5	09/08/2020 11:54 AM	Faculty Memorial Hall (FMH)	110	Row A, Seat, Table	33	105	211	
6	09/08/2020 11:54 AM	Faculty Memorial Hall (FMH)	110	Row A, Seat 4, Table	21	105	211	
7	09/08/2020 11:55 AM	Faculty Memorial Hall (FMH)	110	Row A, Seat 5, Table	18	105	211	
8	09/08/2020 11:57 AM	Faculty Memorial Hall (FMH)	110	Row B, Seat 2, Table	29	105	211	
9	09/08/2020 11:57 AM	Faculty Memorial Hall (FMH)	110	Row B, Seat 3, Table	30	105	211	
10	09/08/2020 11:58 AM	Faculty Memorial Hall (FMH)	110	Row B, Seat 6, Table	25	105	211	
11	09/08/2020 12:00 PM	Faculty Memorial Hall (FMH)	110	Row C, Seat 1, Table	38	105	211	
12	09/08/2020 12:00 PM	Faculty Memorial Hall (FMH)	110	Row C, Seat 4, Table	23	105	211	

13	09/08/2020 12:01 PM	Faculty Memorial Hall (FMH)	110	Row C, Seat 5, Table	22	105	211	
14	09/08/2020 12:03 PM	Faculty Memorial Hall (FMH)	110	Row D, Seat 2, Table	20	105	211	
15	09/08/2020 12:04 PM	Faculty Memorial Hall (FMH)	110	Row D, Seat 3, Table	34	105	211	
16	09/08/2020 12:04 PM	Faculty Memorial Hall (FMH)	110	Row D, Seat 6, Table	32	105	211	
17	09/08/2020 12:07 PM	Faculty Memorial Hall (FMH)	110	Row E, Seat 1, Table	28	105	211	
18	09/08/2020 12:07 PM	Faculty Memorial Hall (FMH)	110	Row E, Seat 4, Table	18	105	211	
19	09/08/2020 12:08 PM	Faculty Memorial Hall (FMH)	110	Row E, Seat 5, Table	4	105	211	Hallway Side
20	09/08/2020 12:10 PM	Faculty Memorial Hall (FMH)	110	Door Handle	83	105	211	Classroom Side
21	09/08/2020 12:48 PM	Weston Hall	251	Door Handle	77	105	211	Hallway Side
22	09/08/2020 12:49 PM	Weston Hall	251	Door Handle	32	105	211	
23	09/08/2020 12:50 PM	Weston Hall	251	Instructor's Desk	72	105	211	
24	09/08/2020 12:51 PM	Weston Hall	251	Light Switch	8	105	211	
25	09/08/2020 01:08 PM	Weston Hall	249	Seat 2, Table	56	105	211	
26	09/08/2020 01:08 PM	Weston Hall	249	Seat 3, Table	46	105	211	
27	09/08/2020 01:09 PM	Weston Hall	249	Seat 4, Table	9	105	211	
28	09/08/2020 01:09 PM	Weston Hall	249	Seat 5, Table	12	105	211	
29	09/08/2020 01:10 PM	Weston Hall	249	Seat 6, Table	10	105	211	
30	09/08/2020 01:10 PM	Weston Hall	249	Seat 7, Table	11	105	211	

31	09/08/2020 01:11 PM	Weston Hall	249	Seat 8, Table	55	105	211	
32	09/08/2020 01:12 PM	Weston Hall	249	Seat 9, Table	36	105	211	
33	09/08/2020 01:12 PM	Weston Hall	249	Seat 10, Table	31	105	211	
34	09/08/2020 01:13 PM	Weston Hall	249	Seat 11, Table	11	105	211	
35	09/08/2020 01:13 PM	Weston Hall	249	Seat 12, Table	20	105	211	
36	09/08/2020 01:14 PM	Weston Hall	249	Seat 13, Table	47	105	211	
37	09/08/2020 01:15 PM	Weston Hall	249	Seat 14, Table	17	105	211	
38	09/08/2020 01:16 PM	Weston Hall	249	Seat 15, Table	14	105	211	
39	09/08/2020 01:18 PM	Weston Hall	249	Door Handle	36	105	211	
40	09/08/2020 01:18 PM	Weston Hall	249	Door Handle	50	105	211	
41	09/08/2020 01:19 PM	Weston Hall	2nd Fl Lobby	Vending Machine	93	105	211	
42	09/09/2020 03:34 PM	Campus Center	Atrium Lounge	Door Push Bar*	628	105	211	Classroom Side
43	09/09/2020 03:36 PM	Campus Center	Atrium Lounge	Table 1, Seat A	80	105	211	
44	09/09/2020 03:38 PM	Campus Center	Atrium Lounge	Table 1, Seat D	100	105	211	
45	09/09/2020 03:40 PM	Campus Center	Atrium Lounge	Table 1, Seat B	167	105	211	
46	09/09/2020 03:42 PM	Campus Center	Atrium Lounge	Table 2, Seat C	34	105	211	
47	09/09/2020 03:42 PM	Campus Center	Atrium Lounge	Table 2, Seat D	61	105	211	
48	09/09/2020 03:43 PM	Campus Center	Atrium Lounge	Table 2, Seat E	107	105	211	

49	09/09/2020 03:44 PM	Campus Center	Atrium Lounge	Table 3, Seat A*	245	105	211	
50	09/09/2020 03:44 PM	Campus Center	Atrium Lounge	Table 3, Seat C*	218	105	211	
51	09/09/2020 03:45 PM	Campus Center	Atrium Lounge	Table 3, Seat E	185	105	211	
52	09/09/2020 03:46 PM	Campus Center	Atrium Lounge	Table 4, Seat B	5	105	211	
53	09/09/2020 03:47 PM	Campus Center	Atrium Lounge	Table 4, Seat D*	480	105	211	
54	09/09/2020 03:47 PM	Campus Center	Atrium Lounge	Table 4, Seat F	157	105	211	
55	09/09/2020 03:48 PM	Campus Center	Atrium Lounge	Table 6, Seat A	20	105	211	
56	09/09/2020 03:49 PM	Campus Center	Atrium Lounge	Table 6, Seat C	99	105	211	
57	09/09/2020 03:49 PM	Campus Center	Atrium Lounge	Table 6, Seat E	172	105	211	
58	09/09/2020 03:50 PM	Campus Center	Atrium Lounge	Table 7, Seat B	81	105	211	
59	09/09/2020 03:51 PM	Campus Center	Atrium Lounge	Table 7, Seat D	20	105	211	
60	09/09/2020 03:52 PM	Campus Center	Atrium Lounge	Table 7, Seat E	38	105	211	
61	09/09/2020 03:53 PM	Campus Center	Atrium Lounge	Table 8, Seat A	166	105	211	
62	09/09/2020 03:54 PM	Campus Center	Atrium Lounge	Table 8, Seat C*	250	105	211	
63	09/09/2020 03:55 PM	Campus Center	Atrium Lounge	Table 8, Seat E*	315	105	211	
64	09/09/2020 03:56 PM	Campus Center	Atrium Lounge	Table 9, Seat B*	260	105	211	
65	09/09/2020 03:59 PM	Campus Center	Atrium Lounge	Table 9, Seat D*	237	105	211	
66	09/09/2020 03:59 PM	Campus Center	Atrium Lounge	Table 9, Seat F	66	105	211	

67	09/09/2020 04:01 PM	Campus Center	Atrium Lounge	Table 10, Seat A*	233	105	211	
68	09/09/2020 04:04 PM	Campus Center	Atrium Lounge	Table 10, Seat C	145	105	211	
69	09/09/2020 04:03 PM	Campus Center	Atrium Lounge	Table 10, Seat E	61	105	211	
70	09/09/2020 04:06 PM	Campus Center	Atrium Lounge	Table 11, Seat B	180	105	211	
71	09/09/2020 04:07 PM	Campus Center	Atrium Lounge	Table 11, Seat D	129	105	211	
72	09/09/2020 04:08 PM	Campus Center	Atrium Lounge	Table 11, Seat F*	203	105	211	
73	09/09/2020 04:09 PM	Campus Center	Atrium Lounge	Table 12, Seat A	19	105	211	
74	09/09/2020 04:10 PM	Campus Center	Atrium Lounge	Table 12, Seat C	22	105	211	
75	09/09/2020 04:10 PM	Campus Center	Atrium Lounge	Table 12, Seat E	118	105	211	Next to ATM
76	09/09/2020 04:11 PM	Campus Center	Atrium Lounge	Table 13, Seat B	89	105	211	
77	09/09/2020 04:11 PM	Campus Center	Atrium Lounge	Table 13, Seat D	85	105	211	
78	09/09/2020 04:12 PM	Campus Center	Atrium Lounge	Table 13, Seat F	102	105	211	
79	09/09/2020 04:03 PM	Campus Center	Atrium Lounge	Table 14, Seat A*	280	105	211	
80	09/09/2020 04:05 PM	Campus Center	Atrium Lounge	Table 14, Seat C	116	105	211	
81	09/09/2020 04:06 PM	Campus Center	Atrium Lounge	Table 14, Seat E	106	105	211	
82	09/09/2020 04:43 PM	Campus Center	Atrium Lounge	Table 3, Seat C	88	105	211	Test No. 50 Retest
83	09/09/2020 04:53 PM	Campus Center	Atrium Lounge	Door Push Bar	43	105	211	Test No. 42 Retest
84	09/09/2020 04:55 PM	Campus Center	Atrium Lounge	Table 4, Seat D	198	105	211	Test No. 53 Retest

85	09/09/2020 04:56 PM	Campus Center	Atrium Lounge	Table 8, Seat C	179	105	211	Test No. 62 Retest
86	09/09/2020 04:58 PM	Campus Center	Atrium Lounge	Table 8, Seat E	158	105	211	Test No. 63 Retest
87	09/09/2020 05:00 PM	Campus Center	Atrium Lounge	Table 9, Seat B	114	105	211	Test No. 64 Retest
88	09/09/2020 05:05 PM	Campus Center	Atrium Lounge	Table 9, Seat D	1	105	211	Test No. 65 Retest
89	09/09/2020 05:06 PM	Campus Center	Atrium Lounge	Table 10, Seat A	1	105	211	Test No. 67 Retest
90	09/09/2020 05:07 PM	Campus Center	Atrium Lounge	Table 11, Seat F	63	105	211	Test No. 72 Retest
91	09/09/2020 05:08 PM	Campus Center	Atrium Lounge	Table 14, Seat A	85	105	211	Test No. 79 Retest
92	09/09/2020 04:17 PM	Campus Center	Main Area	Amazon Locker Screen	171	105	211	
93	09/09/2020 04:18 PM	Campus Center	Main Area	Food Vending Machine Screen	141	105	211	
94	09/09/2020 04:18 PM	Campus Center	Main Area	Drink Vending Machine Keypad	69	105	211	
95	09/09/2020 04:19 PM	Campus Center	Main Area	ATM Keypad	136	105	211	
96	09/09/2020 04:19 PM	Campus Center	Main Area	Tabletop	131	105	211	Closest Seat to ATM
97	09/09/2020 04:41 PM	Campus Center	Atrium Lounge	Table 3, Seat A	78	105	211	
98	09/09/2020 05:37 PM	Central King Building	G08	Table 1, Seat A	24	105	211	
99	09/09/2020 05:38 PM	Central King Building	G08	Table 1, Seat F	24	105	211	
100	09/09/2020 05:39 PM	Central King Building	G08	Table 2, Seat B	25	105	211	
101	09/09/2020 05:39 PM	Central King Building	G08	Table 2, Seat D	14	105	211	
102	09/09/2020 05:40 PM	Central King Building	G08	Table 3, Seat C	28	105	211	

103	09/09/2020 05:41 PM	Central King Building	G08	Table 3, Seat E	25	105	211	
104	09/09/2020 05:42 PM	Central King Building	G08	Table 4, Seat A	39	105	211	
105	09/09/2020 05:42 PM	Central King Building	G08	Table 4, Seat F	60	105	211	
106	09/09/2020 05:43 PM	Central King Building	G08	Table 5, Seat B	30	105	211	
107	09/09/2020 05:44 PM	Central King Building	G08	Table 5, Seat D	71	105	211	
108	09/09/2020 05:44 PM	Central King Building	G08	Table 6, Seat C	31	105	211	
109	09/09/2020 05:45 PM	Central King Building	G08	Table 6, Seat E	20	105	211	
110	09/09/2020 05:45 PM	Central King Building	G08	Table 7, Seat A	31	105	211	
111	09/09/2020 05:46 PM	Central King Building	G08	Table 7, Seat F	30	105	211	
112	09/09/2020 05:46 PM	Central King Building	G08	Table 9, Seat C	19	105	211	
113	09/09/2020 05:47 PM	Central King Building	G08	Table 9, Seat E	30	105	211	
114	09/09/2020 05:48 PM	Central King Building	G08	Table 10, Seat A	38	105	211	
115	09/09/2020 05:49 PM	Central King Building	G08	Table 10, Seat F	57	105	211	
116	09/09/2020 06:00 PM	Central King Building	316	Door Handle	44	105	211	Classroom Side
117	09/09/2020 06:01 PM	Central King Building	316	Light Switch	12	105	211	
118	09/09/2020 06:02 PM	Central King Building	316	Column 1, Seat A	23	105	211	
119	09/09/2020 06:03 PM	Central King Building	316	Column 1, Seat D	19	105	211	
120	09/09/2020 06:04 PM	Central King Building	316	Column 2, Seat B	13	105	211	

121	09/09/2020 06:04 PM	Central King Building	316	Column 2, Seat E	55	105	211	
122	09/09/2020 06:05 PM	Central King Building	316	Column 3, Seat C	19	105	211	
123	09/09/2020 06:06 PM	Central King Building	316	Column 3, Seat B	10	105	211	
124	09/09/2020 06:07 PM	Central King Building	316	Column 4, Seat A	12	105	211	
125	09/09/2020 06:07 PM	Central King Building	316	Column 4, Seat D	19	105	211	

Field Notes

- Seat numbering starts on the left side of the room, from the perspective on the instructor.
- Row A is the row closest to the instructor.
- All directions and labels are from the perspective on the instructor, looking towards the seats

Data Interpretation:

- 10 out of the 125 samples resulted in elevated ATP levels.
- All of the surfaces with elevated ATP levels were re-cleaned by NJIT Building Services and retested. Retest results indicated acceptable levels of ATP on all re-cleaned surfaces.

Surface SARS-CoV-2 Swab Data: 9/8/20-9/9/20

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	FMH, Room 110, Door Handle	Negative
2	FMH, Room 110, Light Switch	Negative
3	FMH, Room 110, Row C, Seat A. Table	Negative
4	Weston Hall, Room 251, Door Handle	Negative
5	Weston Hall, Room 251, Instructor's Desk	Negative
6	Weston Hall, Room 249, Door Handle	Negative
7	Weston Hall, Room 249, Seat 2, Tabletop	Negative
8	Weston Hall, Room 249, Seat 8, Tabletop	Negative
9	Weston Hall, 2nd Fl, Vending Machine	Negative
10	Campus Center, Atrium Lounge, Table 4, Seat D	Negative
11	Campus Center, Atrium Lounge, Table 8, Seat E	Negative
12	Campus Center, Atrium Lounge, Table 6, Seat E	Negative
13	Campus Center, Atrium Lounge, Push Bar on Door	Negative
14	CKB, Room G08, Table 1, Seat A	Negative
15	CKB, Room G08, Table 5, Seat D	Negative
16	CKB, Room G08, Table 7, Seat F	Negative
17	CKB, Room 316, Door handle	Negative
18	CKB, Room 316, Column 1, Seat A	Negative

SARS-CoV-2 Air Sample Data: 9/8/20-9/9/20

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	FMH, Hallway, Outside of Room 108	Negative
2	Weston Hall, Hallway, Outside of Room 210	Negative
3	FMH, Room 110, Row C, Seat A. Table	Negative
4	Weston Hall, Room 251, Door Handle	Negative
5	Weston Hall, Room 251, Instructor's Desk	Negative
6	Weston Hall, Room 249, Door Handle	Negative
7	Weston Hall, Room 249, Seat 2, Tabletop	Negative
8	Weston Hall, Room 249, Seat 8, Tabletop	Negative
9	Weston Hall, 2nd Fl, Vending Machine	Negative
10	Campus Center, Main Sitting Area	Negative
11	Campus Center, Atrium Lounge	Negative

Data Interpretation:

- Laboratory results indicates all the SARS-Cov-2 samples taken on 9/8/20 and 9/9/20 were negative

Attachments:

Laboratory analysis reports with chain-of-custody

Prestige EnviroMicrobiology, Inc.
Analytical Test Report

Client: Omega Environmental Services, Inc., 280 Huyler Street, South Hackensack, NJ 07606
 Client Project/Name: 20-1175
 Sample date: 9-8-2020
 Submittal date: NA
 Sample received: 9-9-2020
 Samples submitted by: Kadeem Hill
 Date analysis completed: September 9, 2020
 Prestige Report number: 200909-02

RT-PCR 2019-nCoV: Analysis of Swab samples for the detection of SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200909-02-005 01 FMH Room 110, Door Handle	ND	ND	ND	ND	Negative
200909-02-006 2 FMH Room 110, Light Switch	ND	ND	ND	ND	Negative
200909-02-007 03 FMH Room 110, Row C1 Seat 01	ND	ND	ND	ND	Negative
200909-02-008 04 Architecture Building Room 251, Door Handle	ND	ND	ND	ND	Negative
200909-02-009 05 Architecture Building Room 251, Instruction's Desk	ND	ND	ND	ND	Negative
200909-02-010 06 Architecture Building Room 249, Door Handle	ND	ND	ND	ND	Negative
200909-02-011 07 Architecture Building Room 249, Seat 2, TableTop	ND	ND	ND	ND	Negative
200909-02-012 08 Architecture Building Room 249, Seat 8, Table Top	ND	ND	ND	ND	Negative
200909-02-013 09 Architecture Building 2 nd Fl, Vending Machine	ND	ND	ND	ND	Negative

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 Page 1 of 2

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RT-PCR 2019-nCoV: Analysis of Air samples for the detection of SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200909-02-014 10 Architecture Build 2 nd Fl, Outside Rm 210	ND	ND	ND	ND	Negative
200909-02-015 11 FMH Hallway, Outside Rm 108	ND	ND	ND	ND	Negative

Report approved:



Theresa Lehman, MPH, Lab Director

Technical Manager: _____



Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
2. The primers and probes in 2019-nCoV CDC EUA Kit are designed for the detection of the two SARS-CoV-2 genes that encode for the N1 and N2 proteins. The kit is manufactured and supplied by Integrated DNA Technologies and approved by the U.S. Centers for Disease Control and Prevention (CDC). Three controls, two positive controls for N proteins and one internal control for the RNA extraction process, are simultaneously run with the samples.
3. Cycle Threshold Value refers to the number of cycles required for the fluorescent signal to cross the detectable threshold in Reverse Transcriptase Polymerase Chain Reaction (RT-PCR); a lower cycle threshold value indicates a higher viral load.
4. ND = not detected, no genetic marker is detected within 40 PCR cycles. The detection limit is 10 copies/reaction.
5. Sampling reference: Rahmani, A. R., M. Leili, G. Azarian, A. Poormohammadi. 2020. Sampling and detection of corona viruses in air: A mini review. Science of the Total Environment.

<https://doi.org/10.1016/j.scitotenv.2020.140207>

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Page 2 of 2

Prestige EnviroMicrobiology, Inc.

Analytical Test Report

Client: Omega Environmental Services, Inc., 280 Huyler Street, South Hackensack, NJ 07606

Client Project/Name: 20-1175

Sample date: 9-9-2020

Submittal date: NA

Sample received: 9-10-2020

Samples submitted by: Kadeem Hill

Date analysis completed: September 10, 2020

Prestige Report number: 200910-01

RT-PCR 2019-nCoV: Analysis of Air samples for the detection of SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200910-01-001 01 Campus Center Main Sitting Area	ND	ND	ND	ND	Negative
200910-01-002 02 Campus Center Atrium	ND	ND	ND	ND	Negative
200910-01-007 07 CKB G08	ND	ND	ND	ND	Negative
200910-01-008 08 CKB 316	ND	ND	ND	ND	Negative

RT-PCR 2019-nCoV: Analysis of Swab samples for the detection of SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200910-01-003 03 Campus Center Atrium, Table 4, Seat D	ND	ND	ND	ND	Negative
200910-01-004 04 Campus Center Atrium, Table 8, Seat E	ND	ND	ND	ND	Negative
200910-01-005 05 Campus Center Atrium, Table 6, Seat E	ND	ND	ND	ND	Negative
200910-01-006 06 Campus Center Atrium, Push Bar on Door	ND	ND	ND	ND	Negative

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200910-01-009 09 CKB G08, Table 1, Seat A	ND	ND	ND	ND	Negative
200910-01-010 10 CKB G08, Table 5, Seat D	ND	ND	ND	ND	Negative
200910-01-011 11 CKB G08, Table 7, Seat F	ND	ND	ND	ND	Negative
200910-01-012 12 CKB 316, Door handle	ND	ND	ND	ND	Negative
200910-01-013 13 CKB 316, Column 1, Seat A	ND	ND	ND	ND	Negative

Report approved:



Theresa Lehman, MPH, Lab Director

Technical Manager: _____



Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
2. The primers and probes in 2019-nCoV CDC EUA Kit are designed for the detection of the two SARS-CoV-2 genes that encode for the N1 and N2 proteins. The kit is manufactured and supplied by Integrated DNA Technologies and approved by the U.S. Centers for Disease Control and Prevention (CDC). Three controls, two positive controls for N proteins and one internal control for the RNA extraction process, are simultaneously run with the samples.
3. Cycle Threshold Value refers to the number of cycles required for the fluorescent signal to cross the detectable threshold in Reverse Transcriptase Polymerase Chain Reaction (RT-PCR); a lower cycle threshold value indicates a higher viral load.
4. ND = not detected, no genetic marker is detected within 40 PCR cycles. The detection limit is 10 copies/reaction.
5. Sampling reference: Rahmani, A. R., M. Leili, G. Azarian, A. Poormohammadi. 2020. Sampling and detection of corona viruses in air: A mini review. Science of the Total Environment.
<https://doi.org/10.1016/j.scitotenv.2020.140207>

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 2 of 2