



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: 5/4 & 5/5/2021

DATE OF REPORT: 5/7/2021

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

{Omega Project#: 21-1040}

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Executive Summary:

On 5/4/2021 and 5/5/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

- Guttenberg Information Technologies Center (GITC)
- Mechanical Engineering Center (MEC)
- Cullimore Hall
- Campus Center
- Central King Building (CKB)
- Kupfrian Hall
- Tiernan Hall
- Faculty Memorial Hall (FMH)
- Weston Hall
- Life Sciences & Engineering Center (LSEC)
- Redwood Residential Hall
- Cypress Residential Hall
- Houten Library
- Wellness Entertainment Center (WEC)
- Honors College Residential Hall
- Laurel Residential Hall
- Oak Residential Hall

The purpose of this testing was to document adequate disinfection and cleaning by the NJIT Building Service staff.

Parameter	Results
Adenosine Triphosphate (ATP) Direct Reads: Bioluminescence Meter (Detects Bacteria and Bio-Load)	<ul style="list-style-type: none"> • 23-out-of-187 representative ATP surface samples collected reported elevated ATP levels (12.3% of samples). 1-out-of the 23 samples with elevated ATP levels were pre-cleaning samples, meaning they were collected before the area was cleaned by NJIT building services. • In the Wellness Entertainment Center, the average pre-cleaning ATP concentration with 62 RLU, with 10% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 3 RLU, representing a 95% reduction in ATP concentrations • Omega Environmental Services collected SARS-CoV-2 surface samples on 12-out-of-the 22 representative surfaces with elevated ATP levels.
SARS-CoV-2 PCR Samples	<ul style="list-style-type: none"> • Laboratory results indicate all the SARS-CoV-2 air and surface samples collected on 5/4/21 and 5/5/21 were negative.

Bio-Load and SARS-CoV-2 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 the 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 the 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	05/04/2021 09:09 AM	GITC	1400	Surface of Row 1, Seat 2	156	105	211	
2	05/04/2021 09:09 AM	GITC	1400	Surface of Row 1, Seat 5	159	105	211	
3	05/04/2021 09:10 AM	GITC	1400	Surface of Row 1, Seat 8	46	105	211	
4	05/04/2021 09:11 AM	GITC	1400	Surface of Row 1, Seat 11	74	105	211	
5	05/04/2021 09:12 AM	GITC	1400	Surface of Row 2, Seat 1	43	105	211	
6	05/04/2021 09:14 AM	GITC	1400	Surface of Row 2, Seat 5	68	105	211	
7	05/04/2021 09:15 AM	GITC	1400	Surface of Row 2, Seat 11	34	105	211	
8	05/04/2021 09:15 AM	GITC	1400	Surface of Row 4, Seat 2	139	105	211	
9	05/04/2021 09:15 AM	GITC	1400	Surface of Row 4, Seat 7	86	105	211	
10	05/04/2021 09:16 AM	GITC	1400	Surface of Row 4, Seat 14	100	105	211	
11	05/04/2021 09:17 AM	GITC	1400	Surface of Row 6, Seat 4	67	105	211	
12	05/04/2021 09:17 AM	GITC	1400	Surface of Row 6, Seat 9	71	105	211	
13	05/04/2021 09:18 AM	GITC	1400	Surface of Row 6, Seat 13	132	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
14	05/04/2021 09:18 AM	GITC	1400	Surface of Row 8, Seat 5*	279	105	211	
15	05/04/2021 09:19 AM	GITC	1400	Surface of Row 8, Seat 8	105	105	211	
16	05/04/2021 09:19 AM	GITC	1400	Surface of Row 8, Seat 11	143	105	211	
17	05/04/2021 09:29 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 1	30	105	211	
18	05/04/2021 09:30 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 5	10	105	211	
19	05/04/2021 09:30 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 8	117	105	211	
20	05/04/2021 09:31 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 2	31	105	211	
21	05/04/2021 09:31 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 6	36	105	211	
22	05/04/2021 09:32 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 11	24	105	211	
23	05/04/2021 09:32 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 3	36	105	211	
24	05/04/2021 09:33 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 6	31	105	211	
25	05/04/2021 09:33 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 11	31	105	211	
26	05/04/2021 09:56 AM	Cullimore Hall	103	Surface of Row 1, Seat 3	67	105	211	
27	05/04/2021 09:57 AM	Cullimore Hall	103	Surface of Row 1, Seat 5	56	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
28	05/04/2021 09:58 AM	Cullimore Hall	103	Surface of Row 3, Seat 2	45	105	211	
29	05/04/2021 09:58 AM	Cullimore Hall	103	Surface of Row 3, Seat 6	57	105	211	
30	05/04/2021 09:59 AM	Cullimore Hall	103	Surface of Row 3, Seat 9	120	105	211	
31	05/04/2021 09:59 AM	Cullimore Hall	103	Surface of Row 5, Seat 2	40	105	211	
32	05/04/2021 10:00 AM	Cullimore Hall	103	Surface of Row 5, Seat 5	61	105	211	
33	05/04/2021 10:00 AM	Cullimore Hall	103	Surface of Row 5, Seat 9	55	105	211	
34	05/04/2021 10:00 AM	Cullimore Hall	103	Surface of Row 7, Seat 2	149	105	211	
35	05/04/2021 10:01 AM	Cullimore Hall	103	Surface of Row 7, Seat 3	42	105	211	
36	05/04/2021 10:01 AM	Cullimore Hall	103	Surface of Row 7, Seat 8	44	105	211	
37	05/04/2021 10:02 AM	Cullimore Hall	103	Surface of Row 9, Seat 2*	211	105	211	
38	05/04/2021 10:02 AM	Cullimore Hall	103	Surface of Row 9, Seat 5	80	105	211	
39	05/04/2021 10:03 AM	Cullimore Hall	103	Surface of Row 9, Seat 9	53	105	211	
40	05/04/2021 10:24 AM	Campus Center	1 st Floor Sitting Area	Surface of ATM, Keypad	86	105	211	
41	05/04/2021 10:25 AM	Campus Center	1 st Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen*	415	105	211	SARS-CoV-2 sample collected.
42	05/04/2021 10:25 AM	Campus Center	1 st Floor Sitting Area	Surface of Drink Vending Machine, Keypad	186	105	211	
43	05/04/2021 10:26 AM	Campus Center	1 st Floor Sitting Area	Surface of Amazon Locker, Keypad	110	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
44	05/04/2021 10:27 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 2*	650	105	211	
45	05/04/2021 10:27 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 3, Seat 2*	1,133	105	211	SARS-CoV-2 sample collected.
46	05/04/2021 10:28 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 4*	1,330	105	211	SARS-CoV-2 sample collected.
47	05/04/2021 10:28 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 5, Seat 3*	493	105	211	
48	05/04/2021 12:55 PM	Central King Building (CKB)	Basement Study Area	Surface of Table 1, Seat 2	99	105	211	
49	05/04/2021 12:55 PM	Central King Building (CKB)	Basement Study Area	Surface of Table 1, Seat 3	38	105	211	
50	05/04/2021 12:56 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 1	41	105	211	
51	05/04/2021 12:56 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 2	95	105	211	
52	05/04/2021 12:57 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 3	34	105	211	
53	05/04/2021 12:57 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 4	21	105	211	
54	05/04/2021 12:58 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 5	49	105	211	
55	05/04/2021 12:58 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 6	119	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
56	05/04/2021 12:59 PM	Central King Building (CKB)	Basement Study Area	Surface of Round Table 7	68	105	211	
57	05/04/2021 01:10 PM	Kupfrian Hall	208	Surface of Row 1, Seat 1*	644	105	211	SARS-CoV-2 sample collected.
58	05/04/2021 01:10 PM	Kupfrian Hall	208	Surface of Row 1, Seat 4	34	105	211	
59	05/04/2021 01:10 PM	Kupfrian Hall	208	Surface of Row 1, Seat 7	66	105	211	
60	05/04/2021 01:11 PM	Kupfrian Hall	208	Surface of Row 2, Seat 3	92	105	211	
61	05/04/2021 01:11 PM	Kupfrian Hall	208	Surface of Row 2, Seat 6*	401	105	211	
62	05/04/2021 01:12 PM	Kupfrian Hall	208	Surface of Row 2, Seat 9	73	105	211	
63	05/04/2021 01:12 PM	Kupfrian Hall	208	Surface of Row 3, Seat 1	117	105	211	
64	05/04/2021 01:13 PM	Kupfrian Hall	208	Surface of Row 3, Seat 4	90	105	211	
65	05/04/2021 01:13 PM	Kupfrian Hall	208	Surface of Row 3, Seat 7	146	105	211	
66	05/04/2021 01:14 PM	Kupfrian Hall	208	Surface of Row 4, Seat 3	36	105	211	
67	05/04/2021 01:14 PM	Kupfrian Hall	208	Surface of Row 4, Seat 6	44	105	211	
68	05/04/2021 01:14 PM	Kupfrian Hall	208	Surface of Row 4, Seat 9	30	105	211	
69	05/04/2021 01:15 PM	Kupfrian Hall	208	Surface of Row 5, Seat 1	124	105	211	
70	05/04/2021 01:15 PM	Kupfrian Hall	208	Surface of Row 5, Seat 4*	270	105	211	
71	05/04/2021 01:16 PM	Kupfrian Hall	208	Surface of Row 5, Seat 7*	441	105	211	
72	05/04/2021 01:36 PM	Tiernan Hall	113	Surface of Row 1, Seat 1	36	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
73	05/04/2021 01:37 PM	Tiernan Hall	113	Surface of Row 1, Seat 2	39	105	211	
74	05/04/2021 01:37 PM	Tiernan Hall	113	Surface of Row 3, Seat 1	55	105	211	
75	05/04/2021 01:38 PM	Tiernan Hall	113	Surface of Row 3, Seat 2	25	105	211	
76	05/04/2021 01:38 PM	Tiernan Hall	113	Surface of Row 3, Seat 3	107	105	211	
77	05/04/2021 01:38 PM	Tiernan Hall	113	Surface of Row 3, Seat 4	109	105	211	
78	05/04/2021 01:39 PM	Tiernan Hall	113	Surface of Row 5, Seat 1	47	105	211	
79	05/04/2021 01:39 PM	Tiernan Hall	113	Surface of Row 5, Seat 2	28	105	211	
80	05/04/2021 01:40 PM	Tiernan Hall	113	Surface of Row 5, Seat 3	54	105	211	
81	05/04/2021 01:41 PM	Tiernan Hall	113	Surface of Row 5, Seat 4	110	105	211	
82	05/04/2021 01:41 PM	Tiernan Hall	113	Surface of Row 7, Seat 1	89	105	211	
83	05/04/2021 01:42 PM	Tiernan Hall	113	Surface of Row 7, Seat 2	33	105	211	
84	05/04/2021 01:43 PM	Tiernan Hall	113	Surface of Row 7, Seat 3	26	105	211	
85	05/04/2021 01:44 PM	Tiernan Hall	113	Surface of Row 7, Seat 4	58	105	211	
86	05/04/2021 01:50 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 1	18	105	211	
87	05/04/2021 01:50 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 4*	235	105	211	
88	05/04/2021 01:51 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 9*	309	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
89	05/04/2021 01:51 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 1	96	105	211	
90	05/04/2021 01:52 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 6	129	105	211	
91	05/04/2021 01:52 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 7*	246	105	211	
92	05/04/2021 01:52 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 3	139	105	211	
93	05/04/2021 01:53 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 6	185	105	211	
94	05/04/2021 01:53 PM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 9*	587	105	211	SARS-CoV-2 sample collected.
95	05/04/2021 02:05 PM	Weston Hall	Studio 256	Surface of Table 1	56	105	211	
96	05/04/2021 02:05 PM	Weston Hall	Studio 256	Surface of Table 2	4	105	211	
97	05/04/2021 02:06 PM	Weston Hall	Studio 256	Surface of Table 3	52	105	211	
98	05/04/2021 02:06 PM	Weston Hall	Studio 256	Surface of Table 4	11	105	211	
99	05/04/2021 02:06 PM	Weston Hall	Studio 256	Surface of Table 5	6	105	211	
100	05/04/2021 02:07 PM	Weston Hall	Studio 256	Surface of Table 6	8	105	211	
101	05/04/2021 02:07 PM	Weston Hall	Studio 256	Surface of Table 7	21	105	211	
102	05/04/2021 02:08 PM	Weston Hall	Studio 256	Surface of Table 8	19	105	211	
103	05/04/2021 02:08 PM	Weston Hall	Studio 256	Surface of Table 9	6	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
104	05/04/2021 02:09 PM	Weston Hall	Studio 256	Surface of Table 10	22	105	211	
105	05/04/2021 02:09 PM	Weston Hall	Studio 256	Surface of Table 12, Seat 3	48	105	211	
106	05/04/2021 02:10 PM	Weston Hall	Studio 256	Surface of Table 12, Seat 4	15	105	211	
107	05/04/2021 02:10 PM	Weston Hall	Studio 256	Surface of Table 12, Seat 6	4	105	211	
108	05/05/2021 08:58 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 2	32	105	211	
109	05/05/2021 08:59 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 3	44	105	211	
110	05/05/2021 08:59 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 4	42	105	211	
111	05/05/2021 09:00 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 5	82	105	211	
112	05/05/2021 09:00 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 6	96	105	211	

113	05/05/2021 09:01 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 7	61	105	211	
114	05/05/2021 09:01 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 8	16	105	211	
115	05/05/2021 09:02 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 9	87	105	211	
116	05/05/2021 09:03 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 10	70	105	211	
117	05/05/2021 09:03 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 11	83	105	211	
118	05/05/2021 09:04 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 12	49	105	211	
119	05/05/2021 09:04 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 13	52	105	211	
120	05/05/2021 09:05 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 14	72	105	211	

121	05/05/2021 09:20 AM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 1 Call Button, Down	43	105	211	
122	05/05/2021 09:20 AM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 2 Call Button, Down	24	105	211	
123	05/05/2021 09:21 AM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 1 Call Button, Down	15	105	211	
124	05/05/2021 09:22 AM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 2 Call Button, Down	30	105	211	
125	05/05/2021 09:22 AM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 1 Call Button, Down	1	105	211	
126	05/05/2021 09:23 AM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 2 Call Button, Down	1	105	211	
127	05/05/2021 09:36 AM	Cypress Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	33	105	211	
128	05/05/2021 09:37 AM	Cypress Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	204	105	211	
129	05/05/2021 09:38 AM	Cypress Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down*	262	105	211	SARS-CoV-2 sample collected.
130	05/05/2021 09:38 AM	Cypress Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	17	105	211	
131	05/05/2021 09:39 AM	Cypress Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	84	105	211	
132	05/05/2021 09:39 AM	Cypress Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	83	105	211	
133	05/05/2021 09:40 AM	Cypress Residential Hall	8 th Floor Hallway	8 th Floor Elevator Call Button, Down	198	105	211	

134	05/05/2021 10:01 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 003, Keyboard	54	105	211	
135	05/05/2021 10:02 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 009, Mouse	76	105	211	
136	05/05/2021 10:03 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 014, Keyboard	18	105	211	
137	05/05/2021 10:03 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 018, Mouse	109	105	211	
138	05/05/2021 10:04 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 025, Keyboard	74	105	211	
139	05/05/2021 10:04 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 027, Mouse	9	105	211	
140	05/05/2021 10:05 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 030, Keyboard	102	105	211	
141	05/05/2021 10:06 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 036, Mouse	18	105	211	
142	05/05/2021 10:06 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 039, Keyboard	122	105	211	
143	05/05/2021 10:07 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 045, Mouse	16	105	211	
144	05/05/2021 10:07 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 048, Mouse	73	105	211	
145	05/05/2021 10:08 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 054, Keyboard	41	105	211	
146	05/05/2021 10:08 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 058, Keyboard	76	105	211	

147	05/05/2021 10:11 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 065, Mouse	10	105	211	
148	05/05/2021 10:11 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 068, Keyboard	58	105	211	
149	05/05/2021 10:12 AM	Houten Library	1 st Floor Sitting Area	Surface of Computer CA-1047- 074, Mouse	17	105	211	
150	05/05/2021 10:40 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Treadmill 8, Left Handle	26	105	211	Pre-cleaning sample.
151	05/05/2021 10:40 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Life Fitness Stair Master, Left Handle	46	105	211	Pre-cleaning sample.
152	05/05/2021 10:41 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Pec Fly Machine, Left Handle	26	105	211	Pre-cleaning sample.
153	05/05/2021 10:41 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Jungle Gym Dip Bar, Right Handle	56	105	211	Pre-cleaning sample.
154	05/05/2021 10:42 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Smith Machine 2, Bar	77	105	211	Pre-cleaning sample.
155	05/05/2021 10:42 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of 20lb Jagged Bar	14	105	211	Pre-cleaning sample.
156	05/05/2021 10:43 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of 15lb Dumbbell	25	105	211	Pre-cleaning sample.
157	05/05/2021 10:43 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Paramount Lat Pulldown Machine, Left Handle	43	105	211	Pre-cleaning sample.
158	05/05/2021 10:44 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Push Bar*	213	105	211	Pre-cleaning sample. Fitness Center side of the door.
159	05/05/2021 10:44 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Handle	98	105	211	Pre-cleaning sample. Hallway side of the door.

160	05/05/2021 10:46 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Push Bar	3	105	211	Test No. 158 post-cleaning sample. Fitness Center side of the door.
161	05/05/2021 01:03 PM	Honors College Residential Hall	1 st Floor Kitchen	Surface of Faucet Handle	169	105	211	
162	05/05/2021 01:03 PM	Honors College Residential Hall	1 st Floor Kitchen	Surface of Refrigerator Handle	70	105	211	
163	05/05/2021 01:05 PM	Honors College Residential Hall	2 nd Floor Hallway	2 nd Floor “Down” Elevator Call Button, Down	177	105	211	Elevator Lobby Room 105 side of the building.
164	05/05/2021 01:07 PM	Honors College Residential Hall	3 rd Floor Hallway	3 rd Floor “Down” Elevator Call Button, Down*	219	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
165	05/05/2021 01:07 PM	Honors College Residential Hall	4 th Floor Hallway	4 th Floor “Down” Elevator Call Button, Down	206	105	211	Elevator Lobby Room 105 side of the building.
166	05/05/2021 01:08 PM	Honors College Residential Hall	5 th Floor Hallway	5 th Floor “Down” Elevator Call Button, Down*	292	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
167	05/05/2021 01:08 PM	Honors College Residential Hall	6 th Floor Hallway	6 th Floor “Down” Elevator Call Button, Down	160	105	211	Elevator Lobby Room 105 side of the building.
168	05/05/2021 01:23 PM	Laurel Residential Hall	1 st Floor Kitchen	Surface of Faucet Handle	33	105	211	
169	05/05/2021 01:24 PM	Laurel Residential Hall	1 st Floor Kitchen	Surface of Microwave Handle*	594	105	211	SARS-CoV-2 sample collected.
170	05/05/2021 01:24 PM	Laurel Residential Hall	1 st Floor Kitchen	Surface of Refrigerator Handle	162	105	211	

171	05/05/2021 01:25 PM	Laurel Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	113	105	211	
172	05/05/2021 01:26 PM	Laurel Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down*	308	105	211	SARS-CoV-2 sample collected.
173	05/05/2021 01:26 PM	Laurel Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	95	105	211	
174	05/05/2021 01:27 PM	Laurel Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	65	105	211	
175	05/05/2021 01:27 PM	Laurel (Extension) Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	242	105	211	SARS-CoV-2 sample collected.
176	05/05/2021 01:28 PM	Laurel (Extension) Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	179	105	211	
177	05/05/2021 01:28 PM	Laurel (Extension) Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	184	105	211	
178	05/05/2021 01:29 PM	Laurel (Extension) Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	65	105	211	
179	05/05/2021 01:30 PM	Laurel (Extension) Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	171	105	211	
180	05/05/2021 01:30 PM	Laurel (Extension) Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	102	105	211	
181	05/05/2021 01:49 PM	Oak Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	112	105	211	

182	05/05/2021 01:50 PM	Oak Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	158	105	211	
183	05/05/2021 01:51 PM	Oak Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	185	105	211	
184	05/05/2021 01:51 PM	Oak Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down*	275	105	211	SARS-CoV-2 sample collected.
185	05/05/2021 01:52 PM	Oak Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	202	105	211	
186	05/05/2021 01:52 PM	Oak Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	151	105	211	
187	05/05/2021 01:53 PM	Oak Residential Hall	8 th Floor Hallway	8 th Floor Elevator Call Button, Down	154	105	211	

Field Notes

- Row A or 1 is the row closest to the Instructor.
- Seat numbering starts on the left side of the room, from the perspective of the Instructor.
- All directions and labels are from the perspective of the Instructor, looking towards the seats.
- Only surfaces with elevated or critical pre-cleaning ATP concentrations were tested post-cleaning.

Data Interpretation:

- 23-out-of-187 representative ATP surface samples collected reported elevated ATP levels (12.3% of samples). 1-out-of the 23 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services.
- In the Wellness Entertainment Center, the average pre-cleaning ATP concentration with 62 RLU, with 10% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 3 RLU, representing a 95% reduction in ATP concentrations.

Surface SARS-CoV-2 Swab Data: 5/4 – 5/5/2021

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Campus Center, 1 st Floor Sitting Area, Surface of Snack Vending Machine, Touch Screen	Negative
2	Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 2	Negative
3	Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 4	Negative
4	Kupfrian Hall, Room 208, Surface of Row 1, Seat 1	Negative
5	Faculty Memorial Hall (FMH), Room 314, Surface of Row 3, Seat 9	Negative
6	Cypress Residential Hall, 4 th Floor Elevator Call Button, Down	Negative
7	Honors College Residential Hall, 3 rd Floor “Down” Elevator Call Button, Down	Negative
8	Honors College Residential Hall, 5 th Floor “Down” Elevator Call Button, Down	Negative
9	Laurel Residential Hall, 1 st Floor Kitchen, Surface of Microwave Handle	Negative
10	Laurel Residential Hall, 3 rd Floor Elevator Call Button, Down	Negative
11	Laurel (Extension) Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative
12	Oak Residential Hall, 5 th Floor Elevator Call Button, Down	Negative

SARS-CoV-2 Air Sample Data: 5/4 – 5/5/2021

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	Cullimore Hall, Room 103	Negative
2	Campus Center, 1 st Floor Sitting Area	Negative
3	Mechanical Engineering Center (MEC), Room 224	Negative
4	Guttenberg Information Technologies Center (GITC), Room 1400	Negative
5	Kupfrian Hall, Room 208	Negative
6	Tiernan Hall, Room 113	Negative
7	Faculty Memorial Hall (FMH), Room 314	Negative
8	Central King Building (CKB), Basement Study Area, Next to The Tutoring Center	Negative
9	Honors College Residential Hall, 1 st Floor Lobby	Negative
10	Wellness Entertainment Center (WEC), 2 nd Floor Fitness Center	Negative
11	Redwood Residential Hall, 1 st Floor Lobby	Negative
12	Cypress Residential Hall, 1 st Floor Lobby	Negative
13	Life Sciences & Engineering Center (LSEC), Ground Floor Sitting Area (Room 102)	Negative
14	Laurel Residential Hall, Vestibule	Negative
15	Laurel (Extension) Residential Hall, 1st Floor Hallway, Next to the Elevator	Negative
16	Oak Residential Hall, Vestibule	Negative

Data Interpretation:

- Laboratory results indicate all the SARS-CoV-2 air samples collected on 5/4 and 5/5/2021 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: 21-1040

Sample date: 5-4-2021

Submittal date: 5-4-2021

Sample received: 5-5-2021

Samples submitted by: Ross Hernandez

Date analysis completed: May 6, 2021

Prestige Report number: 210505-02

RT-PCR 2019-nCoV:

Presence/Non-Detected Analysis of Air samples for 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)	Presence/ Non- Detected
210505-02-005 01 Cullimore Hall, Room 103	ND	ND	ND	ND	Non-Detected
210505-02-006 02 Campus Center, 1 st Floor Sitting Area	ND	ND	ND	ND	Non-Detected
210505-02-007 03 MEC, Room 224	ND	ND	ND	ND	Non-Detected
210505-02-008 04 GITC, Room 1400	ND	ND	ND	ND	Non-Detected
210505-02-009 05 Kupfrian Hall, Room 208	ND	ND	ND	ND	Non-Detected
210505-02-010 06 Tiernan Hall, Room 113	ND	ND	ND	ND	Non-Detected
210505-02-011 07 FMH, Room 314	ND	ND	ND	ND	Non-Detected
210505-02-012 08 CKB, Basement Study Area, Next to Tutoring Center	ND	ND	ND	ND	Non-Detected

Prestige EnviroMicrobiology, Inc.

RT-PCR 2019-nCoV:

Presence/Non-detection Analysis of Swab samples for the 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)	Presence/ Non- Detected
210505-02-013 01 Campus Center, 1 st Floor Sitting Area, Snack Vending Machine, Touch Screen	ND	ND	ND	ND	Non-Detected
210505-02-014 02 Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 2	ND	ND	ND	ND	Non-Detected
210505-02-015 03 Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 4	ND	ND	ND	ND	Non-Detected
210505-02-016 04 Kupfrian Hall, Room 208, Surface of Row 1, Seat 1	ND	ND	ND	ND	Non-Detected
210505-02-017 05 FMH, Room 314, Surface of Row 3, Seat 9	ND	ND	ND	ND	Non-Detected

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. NA = not applicable. 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

Analytical Test Report

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

Client Project/Name: 21-1040

Sample date: 5-5-2021

Submittal date: 5-5-2021

Sample received: 5-6-2021

Samples submitted by: Ross Hernandez

Date analysis completed: May 7, 2021

Prestige Report number: 210506-02

RT-PCR 2019-nCoV:


Presence/Non-Detected Analysis of Air samples for SARS-CoV-2 Genetic Markers

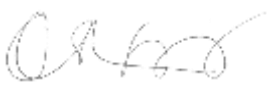
Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Presence/ Non- Detected
210506-02-003 09 Honors College Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210506-02-004 10 WEC, 2 nd Floor Fitness Center	ND	ND	ND	ND	Non-Detected
210506-02-005 11 Redwood Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210506-02-006 12 Cypress Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210506-02-007 13 LSEC, Ground Floor Sitting Area, Room 102	ND	ND	ND	ND	Non-Detected
210506-02-008 14 Laurel Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210506-02-009 15 Laurel (Ext) Hall, 1 st Floor Hallway, Near the Elevator	ND	ND	ND	ND	Non-Detected
210506-02-010 16 Oak Hall, Vestibule	ND	ND	ND	ND	Non-Detected

RT-PCR 2019-nCoV:

Presence/Non-Detected Analysis of Swab samples for the 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)	Presence/ Non- Detected
210506-02-011 06 Cypress Hall, 4 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210506-02-012 07 Honors College Hall, 3 rd Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210506-02-013 08 Honors College Hall, 5 th Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210506-02-014 09 Laurel Hall, 1 st Floor Kitchen, Microwave Handle	ND	ND	ND	ND	Non-Detected
210506-02-015 10 Laurel Hall, 3 rd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210506-02-016 11 Laurel (Ext) Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210506-02-017 12 Oak Hall, 5 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected

Report approved: 
Theresa Lehman, MPH, Lab Director

Technical Manager: 
Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

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