



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: 4/13 & 4/15/2021

DATE OF REPORT: 4/16/2021

REPORT PREPARED BY: Kadeem Hill

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

{Omega Project#: 21-1040}

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Executive Summary:

On 4/13/2021 and 4/14/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

- Cullimore Hall
- Campus Center
- Guttenberg Information Technologies Center (GITC)
- Mechanical Engineering Center (MEC)
- Central King Building (CKB)
- Kupfrian Hall
- Tiernan Hall
- Faculty Memorial Hall (FMH)
- Cypress Residential Hall
- Redwood Residential Hall
- Life Sciences & Engineering Center (LSEC)
- Houten Library
- Wellness Entertainment Center (WEC)
- Honors College Residential Hall
- Oak Residential Hall
- Laurel Residential Hall
- Weston 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">• 11-out-of-170 representative ATP surface samples collected reported elevated ATP levels (6.4% of samples).• Omega Environmental Services collected SARS-CoV-2 surface samples on 11 out of the 11 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 4/13/21 and 4/14/21 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	04/13/2021 09:18 AM	Campus Center	1 st Floor Sitting Area	Surface of ATM, Keypad	92	105	211	
2	04/13/2021 09:19 AM	Campus Center	1 st Floor Sitting Area	Surface of Drink Vending Machine, Keypad	119	105	211	
3	04/13/2021 09:19 AM	Campus Center	1 st Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen	98	105	211	
4	04/13/2021 09:20 AM	Campus Center	1 st Floor Sitting Area	Surface of Amazon Locker, Keypad	175	105	211	
5	04/13/2021 09:21 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 2*	399	105	211	SARS-CoV-2 sample collected.
6	04/13/2021 09:21 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 3, Seat 4*	394	105	211	SARS-CoV-2 sample collected.
7	04/13/2021 09:22 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 1*	751	105	211	SARS-CoV-2 sample collected.
8	04/13/2021 09:22 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 5, Seat 3*	857	105	211	SARS-CoV-2 sample collected.
9	04/13/2021 09:23 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 6, Seat 2*	1080	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
10	04/13/2021 09:39 AM	Cullimore Hall	103	Surface of Row 3, Seat 2	67	105	211	
11	04/13/2021 09:39 AM	Cullimore Hall	103	Surface of Row 3, Seat 5	62	105	211	
12	04/13/2021 09:40 AM	Cullimore Hall	103	Surface of Row 3, Seat 9	67	105	211	
13	04/13/2021 09:41 AM	Cullimore Hall	103	Surface of Row 5, Seat 3	59	105	211	
14	04/13/2021 09:41 AM	Cullimore Hall	103	Surface of Row 5, Seat 6	31	105	211	
15	04/13/2021 09:42 AM	Cullimore Hall	103	Surface of Row 5, Seat 8	86	105	211	
16	04/13/2021 09:42 AM	Cullimore Hall	103	Surface of Row 7, Seat 3	59	105	211	
17	04/13/2021 09:43 AM	Cullimore Hall	103	Surface of Row 7, Seat 5	45	105	211	
18	04/13/2021 09:43 AM	Cullimore Hall	103	Surface of Row 7, Seat 9	109	105	211	
19	04/13/2021 09:56 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 2	103	105	211	
20	04/13/2021 09:57 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 4	96	105	211	
21	04/13/2021 09:57 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 7	19	105	211	
22	04/13/2021 09:58 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 1	176	105	211	
23	04/13/2021 09:58 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 4	89	105	211	
24	04/13/2021 10:00 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 7	63	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
25	04/13/2021 10:01 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 10	147	105	211	
26	04/13/2021 10:01 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 2	134	105	211	
27	04/13/2021 10:02 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 5	118	105	211	
28	04/13/2021 10:02 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 8	86	105	211	
29	04/13/2021 10:03 AM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 11	118	105	211	
30	04/13/2021 10:22 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-005, Keyboard	140	105	211	
31	04/13/2021 10:22 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-009, Mouse	63	105	211	
32	04/13/2021 10:23 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-014, Keyboard	5	105	211	
33	04/13/2021 10:24 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-016, Mouse	8	105	211	
34	04/13/2021 10:24 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-023, Keyboard	108	105	211	
35	04/13/2021 10:25 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-029, Mouse	26	105	211	
36	04/13/2021 10:25 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047-030, Keyboard	9	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
37	04/13/2021 10:26 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 036, Mouse	57	105	211	
38	04/13/2021 10:26 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 041, Keyboard	122	105	211	
39	04/13/2021 10:27 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 043, Mouse*	253	105	211	SARS-CoV-2 sample collected.
40	04/13/2021 10:28 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 050, Keyboard	72	105	211	
41	04/13/2021 10:28 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 054, Mouse	51	105	211	
42	04/13/2021 10:29 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 060, Keyboard	67	105	211	
43	04/13/2021 10:29 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 065, Mouse	29	105	211	
44	04/13/2021 10:30 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 066, Keyboard	70	105	211	
45	04/13/2021 10:31 AM	Houten Library	1 st floor Sitting Area	Surface of Computer CA-1047- 072, Mouse	28	105	211	
46	04/13/2021 10:45 AM	Guttenberg Information Technologies Center	1100	Surface of Row 1, Seat 2	61	105	211	
47	04/13/2021 10:46 AM	GITC	1100	Surface of Row 1, Seat 5	103	105	211	
48	04/13/2021 10:46 AM	GITC	1100	Surface of Row 1, Seat 8	61	105	211	
49	04/13/2021 10:47 AM	GITC	1100	Surface of Row 1, Seat 11	30	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
50	04/13/2021 10:47 AM	GITC	1100	Surface of Row 1, Seat 14	92	105	211	
51	04/13/2021 10:48 AM	GITC	1100	Surface of Row 3, Seat 2	39	105	211	
52	04/13/2021 10:49 AM	GITC	1100	Surface of Row 3, Seat5	47	105	211	
53	04/13/2021 10:49 AM	GITC	1100	Surface of Row 3, Seat 7	7	105	211	
54	04/13/2021 10:50 AM	GITC	1100	Surface of Row 5, Seat 2	16	105	211	
55	04/13/2021 10:50 AM	GITC	1100	Surface of Row 5, Seat 4	48	105	211	
56	04/13/2021 10:51 AM	GITC	1100	Surface of Row 5, Seat 7	58	105	211	
57	04/13/2021 10:52 AM	GITC	1100	Surface of Row 5, Seat 10	15	105	211	
58	04/13/2021 10:52 AM	GITC	1100	Surface of Row 5, Seat 13	6	105	211	
59	04/13/2021 01:16 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 2	38	105	211	
60	04/13/2021 01:17 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 3	11	105	211	
61	04/13/2021 01:17 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 6	14	105	211	
62	04/13/2021 01:18 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 2, Seat 1	10	105	211	
63	04/13/2021 01:19 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 2, Seat 3	20	105	211	
64	04/13/2021 01:19 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 3, Seat 1	10	105	211	
65	04/13/2021 01:21 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 2	6	105	211	
66	04/13/2021 01:21 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 4	22	105	211	
67	04/13/2021 01:22 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 5, Seat 2	22	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
68	04/13/2021 01:22 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 6, Seat 4	32	105	211	
69	04/13/2021 01:23 PM	Central King Building (CKB)	Tutoring Center	Surface of Table 7, Seat 3	15	105	211	
70	04/13/2021 01:32 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 1*	999	105	211	SARS-CoV-2 sample collected.
71	04/13/2021 01:33 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 2	135	105	211	
72	04/13/2021 01:33 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 3	53	105	211	
73	04/13/2021 01:33 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 5	17	105	211	
74	04/13/2021 01:34 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 7	48	105	211	
75	04/13/2021 01:34 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 8	18	105	211	
76	04/13/2021 01:35 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 10	26	105	211	
77	04/13/2021 01:35 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 11	68	105	211	
78	04/13/2021 01:36 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 12	37	105	211	
79	04/13/2021 01:36 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 14	44	105	211	
80	04/13/2021 01:37 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 16	40	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
81	04/13/2021 01:50 PM	Tiernan Hall	114	Surface of Row 1, Seat 1	5	105	211	
82	04/13/2021 01:51 PM	Tiernan Hall	114	Surface of Row 3, Seat 1	9	105	211	
83	04/13/2021 01:51 PM	Tiernan Hall	114	Surface of Row 3, Seat 2	4	105	211	
84	04/13/2021 01:52 PM	Tiernan Hall	114	Surface of Row 3, Seat 3	9	105	211	
85	04/13/2021 01:52 PM	Tiernan Hall	114	Surface of Row 3, Seat 4	26	105	211	
86	04/13/2021 01:53 PM	Tiernan Hall	114	Surface of Row 3, Seat 5	18	105	211	
87	04/13/2021 01:54 PM	Tiernan Hall	114	Surface of Row 5, Seat 1	3	105	211	
88	04/13/2021 01:54 PM	Tiernan Hall	114	Surface of Row 5, Seat 2	2	105	211	
89	04/13/2021 01:55 PM	Tiernan Hall	114	Surface of Row 5, Seat 3	6	105	211	
90	04/13/2021 01:55 PM	Tiernan Hall	114	Surface of Row 5, Seat 4	5	105	211	
91	04/13/2021 01:56 PM	Tiernan Hall	114	Surface of Row 5, Seat 5	54	105	211	
92	04/13/2021 02:05 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 1, Seat 4	12	105	211	
93	04/13/2021 02:05 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 1, Seat 6	37	105	211	
94	04/13/2021 02:06 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 1	9	105	211	
95	04/13/2021 02:06 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 4	28	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
96	04/13/2021 02:07 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 7	50	105	211	
97	04/13/2021 02:07 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 3	63	105	211	
98	04/13/2021 02:08 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 6	13	105	211	
99	04/13/2021 02:08 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 4, Seat 1	76	105	211	
100	04/13/2021 02:09 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 4, Seat 3	8	105	211	
101	04/13/2021 02:09 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 5, Seat 7	76	105	211	
102	04/13/2021 02:10 PM	Faculty Memorial Hall (FMH)	203	Surface of Row 5, Seat 9	35	105	211	
103	04/13/2021 02:22 PM	Weston Hall	556	Surface of Table 1	59	105	211	
104	04/13/2021 02:23 PM	Weston Hall	556	Surface of Table 2	56	105	211	
105	04/13/2021 02:23 PM	Weston Hall	556	Surface of Table 3	131	105	211	
106	04/13/2021 02:24 PM	Weston Hall	556	Surface of Table 4	209	105	211	
107	04/13/2021 02:24 PM	Weston Hall	556	Surface of Table 5, Seat 1	20	105	211	
108	04/13/2021 02:25 PM	Weston Hall	556	Surface of Table 5, Seat 6	31	105	211	
109	04/13/2021 02:26 PM	Weston Hall	556	Surface of Table 6	3	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
110	04/13/2021 02:26 PM	Weston Hall	556	Surface of Table 7	31	105	211	
111	04/13/2021 02:27 PM	Weston Hall	556	Surface of Table 8	3	105	211	
112	04/13/2021 02:27 PM	Weston Hall	556	Surface of Table 9	18	105	211	
113	04/13/2021 02:28 PM	Weston Hall	556	Surface of Table 10	23	105	211	
114	04/13/2021 02:28 PM	Weston Hall	556	Surface of Table 11	6	105	211	
115	04/14/2021 08:28 AM	Life Sciences & Engineering Center (LSEC)	102	Surface of Table 2	9	105	211	
116	04/14/2021 08:28 AM	LSEC	102	Surface of Table 3	7	105	211	
117	04/14/2021 08:29 AM	LSEC	102	Surface of Table 4	9	105	211	
118	04/14/2021 08:30 AM	LSEC	102	Surface of Table 5	14	105	211	
119	04/14/2021 08:31 AM	LSEC	102	Surface of Table 6	9	105	211	
120	04/14/2021 08:31 AM	LSEC	102	Surface of Table 7	11	105	211	
121	04/14/2021 08:32 AM	LSEC	102	Surface of Table 8	7	105	211	
122	04/14/2021 08:32 AM	LSEC	102	Surface of Table 9	15	105	211	
123	04/14/2021 08:33 AM	LSEC	102	Surface of Table 10	6	105	211	
124	04/14/2021 08:33 AM	LSEC	102	Surface of Table 11	14	105	211	
125	04/14/2021 08:34 AM	LSEC	102	Surface of Table 12	6	105	211	
126	04/14/2021 08:34 AM	LSEC	102	Surface of Table 13	10	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
127	04/14/2021 08:43 AM	Oak Residential Hall	Hallway	2 nd Floor Elevator Call Button (Down)*	351	105	211	SARS-CoV-2 Sample Taken
128	04/14/2021 08:43 AM	Oak Residential Hall	Hallway	3 rd Floor Elevator Call Button (Down)	44	105	211	
129	04/14/2021 08:44 AM	Oak Residential Hall	Hallway	4 th Floor Elevator Call Button (Down)	33	105	211	
130	04/14/2021 08:44 AM	Oak Residential Hall	Hallway	5 th Floor Elevator Call Button (Down)*	366	105	211	SARS-CoV-2 Sample Taken
131	04/14/2021 08:45 AM	Oak Residential Hall	Hallway	6 th Floor Elevator Call Button (Down)	75	105	211	
132	04/14/2021 08:45 AM	Oak Residential Hall	Hallway	7 th Floor Elevator Call Button (Down)*	222	105	211	SARS-CoV-2 Sample Taken
133	04/14/2021 08:46 AM	Oak Residential Hall	Hallway	8 th Floor Elevator Call Button (Down)	40	105	211	
134	04/14/2021 08:57 AM	Laurel (Main) Residential Hall	Hallway	2 nd Floor Elevator Call Button (Down)*	541	105	211	SARS-CoV-2 Sample Taken
135	04/14/2021 08:57 AM	Laurel (Main) Residential Hall	Hallway	3 rd Floor Elevator Call Button (Down)	91	105	211	
136	04/14/2021 08:58 AM	Laurel (Main) Residential Hall	Hallway	4 th Floor Elevator Call Button (Down)	51	105	211	
137	04/14/2021 08:58 AM	Laurel (Main) Residential Hall	Hallway	5 th Floor Elevator Call Button (Down)	26	105	211	
138	04/14/2021 08:59 AM	Laurel (Ext) Residential Hall	Hallway	2 nd Floor Elevator Call Button (Down)	19	105	211	
139	04/14/2021 08:59 AM	Laurel (Ext) Residential Hall	Hallway	3 rd Floor Elevator Call Button (Down)	8	105	211	
140	04/14/2021 09:00 AM	Laurel (Ext) Residential Hall	Hallway	4 th Floor Elevator Call Button (Down)	50	105	211	
141	04/14/2021 09:00 AM	Laurel (Ext) Residential Hall	Hallway	5 th Floor Elevator Call Button (Down)	30	105	211	
142	04/14/2021 09:00 AM	Laurel (Ext) Residential Hall	Hallway	6 th Floor Elevator Call Button (Down)	40	105	211	
143	04/14/2021 09:01 AM	Laurel (Ext) Residential Hall	Hallway	7 th Floor Elevator Call Button (Down)	15	105	211	
144	04/14/2021 09:17 AM	Honors College Residential Hall	Hallway	2 nd Floor Elevator Call Button (Down)	18	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
145	04/14/2021 09:18 AM	Honors College Residential Hall	Hallway	3 rd Floor Elevator Call Button (Down)	48	105	211	
146	04/14/2021 09:18 AM	Honors College Residential Hall	Hallway	4 th Floor Elevator Call Button (Down)	71	105	211	
147	04/14/2021 09:19 AM	Honors College Residential Hall	Hallway	5 th Floor Elevator Call Button (Down)	81	105	211	
148	04/14/2021 09:19 AM	Honors College Residential Hall	Hallway	6 th Floor Elevator Call Button (Down)	64	105	211	Pre-Cleaning Sample
149	04/14/2021 10:45 AM	Wellness Entertainment Center (WEC)	2 nd Floor Gym	Door Handle (Hallway side of the door)	9	105	211	Pre-Cleaning Sample
150	04/14/2021 10:46 AM	WEC	2 nd Floor Gym	Door Push Bar (Gym side of the door)	23	105	211	Pre-Cleaning Sample
151	04/14/2021 10:46 AM	WEC	2 nd Floor Gym	Treadmill 2 ("Go" Button)	1	105	211	Pre-Cleaning Sample
152	04/14/2021 10:47 AM	WEC	2 nd Floor Gym	Treadmill 8 ("Go" Button)	8	105	211	Pre-Cleaning Sample
153	04/14/2021 10:47 AM	WEC	2 nd Floor Gym	20 Lbs. Dumbbell	5	105	211	Pre-Cleaning Sample
154	04/14/2021 10:48 AM	WEC	2 nd Floor Gym	Jagged Triceps Extension Bar	6	105	211	Pre-Cleaning Sample
155	04/14/2021 10:48 AM	WEC	2 nd Floor Gym	Right Hand Handle of Paramount Pull Up Machine	6	105	211	Pre-Cleaning Sample
156	04/14/2021 10:49 AM	WEC	2 nd Floor Gym	Left Hand Handle of Paramount Shoulder Press	52	105	211	Pre-Cleaning Sample
157	04/14/2021 10:49 AM	WEC	2 nd Floor Gym	Left Hand Handle of Paramount Triceps Extension	6	105	211	Pre-Cleaning Sample
158	04/14/2021 10:50 AM	WEC	2 nd Floor Gym	Left Hand Handle of Paramount Seated Row	7	105	211	Pre-Cleaning Sample
159	04/14/2021 01:32 PM	Redwood Residential Hall	3 rd Floor	Elevator 1 – 3 rd Floor Call Button (Down)	1	105	211	
160	04/14/2021 01:33 PM	Redwood Residential Hall	3 rd Floor	Elevator 2 - 3 rd Floor Call Button (Down)	145	105	211	
161	04/14/2021 01:33 PM	Redwood Residential Hall	4 th Floor	Elevator 1 – 4 th Floor Call Button (Down)	30	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
162	04/14/2021 01:34 PM	Redwood Residential Hall	4 th Floor	Elevator 2 - 4 th Floor Call Button (Down)	112	105	211	
163	04/14/2021 01:35 PM	Redwood Residential Hall	5 th Floor	Elevator 1 - 5 th Floor Call Button (Down)	0	105	211	
164	04/14/2021 01:35 PM	Redwood Residential Hall	5 th Floor	Elevator 2 - 5 th Floor Call Button (Down)	2	105	211	
165	04/14/2021 01:40 PM	Cypress Residential Hall	Hallway	3 rd Floor Elevator Call Button (Down)	152	105	211	
166	04/14/2021 01:41 PM	Cypress Residential Hall	Hallway	4 th Floor Elevator Call Button (Down)	41	105	211	
167	04/14/2021 01:42 PM	Cypress Residential Hall	Hallway	5 th Floor Elevator Call Button (Down)	136	105	211	
168	04/14/2021 01:42 PM	Cypress Residential Hall	Hallway	6 th Floor Elevator Call Button (Down)	25	105	211	
169	04/14/2021 01:43 PM	Cypress Residential Hall	Hallway	7 th Floor Elevator Call Button (Down)	45	105	211	
170	04/14/2021 01:43 PM	Cypress Residential Hall	Hallway	8 th Floor Elevator Call Button (Down)	41	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:

- 11-out-of-170 representative ATP surface samples collected reported elevated ATP levels (6.4% of samples).
- Omega Environmental Services collected SARS-CoV-2 surface samples on 11 out of the 11 representative surfaces with elevated ATP levels.

Surface SARS-CoV-2 Swab Data: 4/13 – 4/14/2021

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Campus Center, 1 st Floor Sitting Area, Surface of Table 2	Negative
2	Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 4	Negative
3	Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 1	Negative
4	Campus Center, 1 st Floor Sitting Area, Surface of Table 5, Seat 3	Negative
5	Campus Center, 1 st Floor Sitting Area, Surface of Table 6, Seat 2	Negative
6	Houten Library, 1 st Floor Sitting Area, Computer CA-1047-043, Mouse	Negative
7	Kupfrian Hall, Basement Sitting Area, Table 1	Negative
8	Oak Resident Hall, 2 nd Floor Elevator Call Button, Down	Negative
9	Oak Resident Hall, 5 th Floor Elevator Call Button, Down	Negative
10	Oak Resident Hall, 7 th Floor Elevator Call Button, Down	Negative
11	Laurel Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative

SARS-CoV-2 Air Sample Data: 4/13 – 4/14/2021

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	Mechanical Engineering Center (MEC), Room 221	Negative
2	Guttenberg Information Technologies Center (GITC), Room 1100	Negative
3	Cullimore Hall, Room 103	Negative
4	Campus Center, 1 st Floor Sitting Area	Negative
5	Central King Building (CKB), Ground Floor, Tutoring Center)	Negative
6	Kupfrian Hall, Basement Sitting Area	Negative
7	Tiernan Hall, Room 114	Negative
8	Faculty Memorial Hall (FMH), Room 203	Negative
9	Redwood Residential Hall, 1 st Floor Lobby	Negative
10	Cypress Residential Hall, 1 st Floor Lobby	Negative
11	Wellness Entertainment Center (WEC), 2 nd Floor Fitness Center	Negative
12	Honors College Residential Hall, 1 st Floor Lobby	Negative
13	Oak Residential Hall, Vestibule	Negative
14	Laurel Residential Hall, Vestibule	Negative
15	Laurel (Extension) Residential Hall, 1 st Floor Hallway, Next to the Elevator	Negative
16	Life Sciences & Engineering Center (LSEC), 1 st Floor Sitting Area (Room 102)	Negative

Data Interpretation:

- Laboratory results indicate all the SARS-CoV-2 air samples collected on 4/13 and 4/15/2021 were negative.

Attachments:

Laboratory analysis reports with chain-of-custody

Analytical Test Report

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

Client Project/Name: 21-1040

Sample date: 4-13-2021

Submittal date: 4-13-2021

Sample received: 4-14-2021

Samples submitted by: Alessandra Spadotto

Date analysis completed: April 15, 2021

Prestige Report number: 210414-04

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
210414-04-054 01 MEC, Room 221	ND	ND	ND	ND	Non-Detected
210414-04-055 02 GITC, Room 1100	ND	ND	ND	ND	Non-Detected
210414-04-056 03 Cullimore Hall, Room 103	ND	ND	ND	ND	Non-Detected
210414-04-057 04 Campus Center, 1 st Floor Sitting Area	ND	ND	ND	ND	Non-Detected
210414-04-058 05 Central King Building, Tutoring Center	ND	ND	ND	ND	Non-Detected
210414-04-059 06 Kupfrian Hall, Basement Sitting Area	ND	ND	ND	ND	Non-Detected
210414-04-060 07 Tiernan Hall, Room 114	ND	ND	ND	ND	Non-Detected
210414-04-061 08 Faculty Memorial Hall, Room 203	ND	ND	ND	ND	Non-Detected

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
210414-04-062 01 Campus Center, 1 st Floor Sitting area, Table 2	ND	ND	ND	ND	Non-Detected
210414-04-063 02 Campus Center, 1 st Floor Sitting Area, Table 3, Seat 4	ND	ND	ND	ND	Non-Detected
210414-04-064 03 Campus Center, 1 st Floor Sitting Area, Table 4, Seat 1	ND	ND	ND	ND	Non-Detected
210414-04-065 04 Campus Center, 1 st Floor Sitting Area, Table 5, Seat 3	ND	ND	ND	ND	Non-Detected
210414-04-066 05 Campus Center, 1 st Floor Sitting Area, Table 6, Seat 2	ND	ND	ND	ND	Non-Detected
210414-04-067 06 Houten Library, 1 st Floor Sitting Area, Computer CA1047-043, Mouse	ND	ND	ND	ND	Non-Detected
210414-04-068 05 Kupfrian Hall, Basement Sitting Area, Table 1	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>

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: 4-14-2021

Submittal date: 4-14-2021

Sample received: 4-15-2021

Samples submitted by: Alessandra Spadotto

Date analysis completed: April 16, 2021

Prestige Report number: 210415-02

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
210415-02-021 09 Redwood Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210415-02-022 10 Cypress Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210415-02-023 11 WEC, 2 nd Floor Fitness Center	ND	ND	ND	ND	Non-Detected
210415-02-024 12 Honors College Hall, 1 st FL Lobby	ND	ND	ND	ND	Non-Detected
210415-02-025 13 Oak Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210415-02-026 14 Laurel Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210415-02-027 15 Laurel (Ext) Hall, 1 st Fl, near elevator	ND	ND	ND	ND	Non-Detected

210415-02-028 16 LSEC, Room 102	ND	ND	ND	ND	Non-Detected
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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
210415-02-029 08 Oak Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210415-02-030 09 Oak Hall, 5 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210415-02-031 10 Oak Hall, 7 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210415-02-032 11 Laurel Hall, 2 nd 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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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.
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