

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:	3/09 & 3/10/2021
DATE OF REPORT:	3/12/2021
REPORT PREPARED BY:	Ross Hernandez
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{Omega Project#: 21-1040}

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Executive Summary:

On 3/09/2021 and 3/10/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

- Campus Center
- Houten Library
- Guttenberg Information Technologies Center (GITC)
- Tiernan Hall
- Kupfrian Hall
- Faculty Memorial Hall (FMH)
- Central King Building (CKB)
- Life Sciences & Engineering Center (LSEC)

- Laurel Residential Hall
- Honors College Residential Hall
- Wellness Entertainment Center (WEC)
- Cypress Residential Hall
- Redwood Residential Hall
- Mechanical Engineering Center (MEC)
- Weston 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)	 27-out-of-166 representative ATP surface samples collected reported elevated ATP levels (16.3% of samples). 4-out-of the 27 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services. Omega Environmental Services collected SARS-CoV-2 surface samples on all representative surfaces with elevated ATP levels, that were not recleaned by NJIT Building Services. In the Wellness Entertainment Center, the average precleaning ATP concentration with 189 RLU, with 40% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 36 RLU, with an 81% decrease in ATP concentrations.
SARS-CoV-2 PCR Samples	• Laboratory results indicate all the SARS-CoV-2 air and surface samples collected on 3/09/21 and 3/10/21 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	(Hygiena/Ensure) Data:

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
1	03/09/2021 09:22 AM	Campus Center	1 st Floor Sitting Area	ATM Machine, Keypad	130	105	211	
2	03/09/2021 09:23 AM	Campus Center	1 st Floor Sitting Area	Drink Vending Machine, Keypad	78	105	211	
3	03/09/2021 09:24 AM	Campus Center	1 st Floor Sitting Area	Snack Vending Machine, Touch Screen*	307	105	211	SARS-CoV-2 sample collected.
4	03/09/2021 09:24 AM	Campus Center	1 st Floor Sitting Area	Amazon Locker, Touch Screen	67	105	211	
5	03/09/2021 09:25 AM	Campus Center	1st Floor Sitting Area	Surface of Table 3, Seat 1*	297	105	211	SARS-CoV-2 sample collected.
6	03/09/2021 09:25 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 3, Seat 4	117	105	211	
7	03/09/2021 09:26 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 2	92	105	211	
8	03/09/2021 09:26 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 3*	238	105	211	SARS-CoV-2 sample collected.
9	03/09/2021 09:45 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-007, Keyboard*	213	105	211	SARS-CoV-2 sample collected.
10	03/09/2021 09:45 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-020, Mouse	64	105	211	
11	03/09/2021 09:46 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-025, Keyboard	93	105	211	
12	03/09/2021 09:46 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-034, Mouse	62	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
13	03/09/2021 09:47 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-039, Keyboard	93	105	211	
14	03/09/2021 09:47 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-054, Mouse*	271	105	211	SARS-CoV-2 sample collected.
15	03/09/2021 09:48 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-070, Keyboard	188	105	211	
16	03/09/2021 10:00 AM	GITC	1100	Surface of Row 1, Seat 2	8	105	211	
17	03/09/2021 10:00 AM	GITC	1100	Surface of Row 1, Seat 5	15	105	211	
18	03/09/2021 10:01 AM	GITC	1100	Surface of Row 1, Seat 8	20	105	211	
19	03/09/2021 10:01 AM	GITC	1100	Surface of Row 1, Seat 11	20	105	211	
20	03/09/2021 10:02 AM	GITC	1100	Surface of Row 3, Seat 1	8	105	211	
21	03/09/2021 10:03 AM	GITC	1100	Surface of Row 3, Seat 4	22	105	211	
22	03/09/2021 10:03 AM	GITC	1100	Surface of Row 3, Seat 6	13	105	211	
23	03/09/2021 10:13 AM	Cullimore Hall	104	Surface of Row 1, Seat 1	13	105	211	
24	03/09/2021 10:14 AM	Cullimore Hall	104	Surface of Row 1, Seat 4	110	105	211	
25	03/09/2021 10:14 AM	Cullimore Hall	104	Surface of Row 1, Seat 7	6	105	211	
26	03/09/2021 10:15 AM	Cullimore Hall	104	Surface of Row 1, Seat 10	7	105	211	
27	03/09/2021 10:15 AM	Cullimore Hall	104	Surface of Row 3, Seat 2	7	105	211	
28	03/09/2021 10:16 AM	Cullimore Hall	104	Surface of Row 3, Seat 5	8	105	211	
29	03/09/2021 10:16 AM	Cullimore Hall	104	Surface of Row 3, Seat 8	6	105	211	

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Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
30	03/09/2021 10:17 AM	Cullimore Hall	104	Surface of Row 5, Seat 1	15	105	211	
31	03/09/2021 10:18 AM	Cullimore Hall	104	Surface of Row 5, Seat 4	13	105	211	
32	03/09/2021 10:18 AM	Cullimore Hall	104	Surface of Row 5, Seat 7	12	105	211	
33	03/09/2021 12:54 PM	Tiernan Hall	113	Surface of Row 1, Seat 1	46	105	211	
34	03/09/2021 12:55 PM	Tiernan Hall	113	Surface of Row 1, Seat 2	12	105	211	
35	03/09/2021 12:56 PM	Tiernan Hall	113	Surface of Row 3, Seat 1	16	105	211	
36	03/09/2021 12:56 PM	Tiernan Hall	113	Surface of Row 3, Seat 2	20	105	211	
37	03/09/2021 12:57 PM	Tiernan Hall	113	Surface of Row 3, Seat 3	27	105	211	
38	03/09/2021 12:57 PM	Tiernan Hall	113	Surface of Row 3, Seat 4	17	105	211	
39	03/09/2021 12:58 PM	Tiernan Hall	113	Surface of Row 5, Seat 1	5	105	211	
40	03/09/2021 12:58 PM	Tiernan Hall	113	Surface of Row 5, Seat 2	25	105	211	
41	03/09/2021 12:59 PM	Tiernan Hall	113	Surface of Row 5, Seat 3	25	105	211	
42	03/09/2021 01:00 PM	Tiernan Hall	113	Surface of Row 5, Seat 4	17	105	211	
43	03/09/2021 01:07 PM	Kupfrian Hall	209	Surface of Row 1, Seat 1	120	105	211	
44	03/09/2021 01:08 PM	Kupfrian Hall	209	Surface of Row 1, Seat 4	40	105	211	
45	03/09/2021 01:08 PM	Kupfrian Hall	209	Surface of Row 1, Seat 7	40	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
46	03/09/2021 01:09 PM	Kupfrian Hall	209	Surface of Row 1, Seat 10	62	105	211	
47	03/09/2021 01:09 PM	Kupfrian Hall	209	Surface of Row 3, Seat 3	153	105	211	
48	03/09/2021 01:10 PM	Kupfrian Hall	209	Surface of Row 3, Seat 6*	352	105	211	SARS-CoV-2 sample collected.
49	03/09/2021 01:10 PM	Kupfrian Hall	209	Surface of Row 3, Seat 9	62	105	211	
50	03/09/2021 01:11 PM	Kupfrian Hall	209	Surface of Row 3, Seat 11	38	105	211	
51	03/09/2021 01:11 PM	Kupfrian Hall	209	Surface of Row 5, Seat 1	30	105	211	
52	03/09/2021 01:12 PM	Kupfrian Hall	209	Surface of Row 5, Seat 4	9	105	211	
53	03/09/2021 01:12 PM	Kupfrian Hall	209	Surface of Row 5, Seat 7	39	105	211	
54	03/09/2021 01:36 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 1, Seat 1	45	105	211	
55	03/09/2021 01:36 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 1, Seat 4	7	105	211	
56	03/09/2021 01:37 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 2, Seat 1	12	105	211	
57	03/09/2021 01:37 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 2, Seat 4	11	105	211	
58	03/09/2021 01:38 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 2, Seat 7	6	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
59	03/09/2021 01:38 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 3, Seat 3	2	105	211	
60	03/09/2021 01:39 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 3, Seat 6	9	105	211	
61	03/09/2021 01:39 PM	Faculty Memorial Hall (FMH)	110	Surface of Row 3, Seat 9	12	105	211	
62	03/10/2021 08:38 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 1	146	105	211	
63	03/10/2021 08:38 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 3	52	105	211	
64	03/10/2021 08:39 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 5*	270	105	211	SARS-CoV-2 sample collected.
65	03/10/2021 08:39 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 1, Seat 1	58	105	211	
66	03/10/2021 08:40 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 1, Seat 2	94	105	211	
67	03/10/2021 08:41 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 2, Seat 1	92	105	211	
68	03/10/2021 08:41 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 2, Seat 2	113	105	211	
69	03/10/2021 08:42 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Round Table 1	18	105	211	
70	03/10/2021 08:42 AM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Round Table 2	11	105	211	
71	03/10/2021 08:58 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 2	24	105	211	
72	03/10/2021 08:59 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 3	46	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
73	03/10/2021 09:00 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 4	3	105	211	
74	03/10/2021 09:00 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 5	20	105	211	
75	03/10/2021 09:01 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 6	23	105	211	
76	03/10/2021 09:01 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 7	24	105	211	
77	03/10/2021 09:02 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 8	30	105	211	
78	03/10/2021 09:03 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 9	15	105	211	
79	03/10/2021 09:03 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 10	23	105	211	
80	03/10/2021 09:04 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 12	177	105	211	
81	03/10/2021 09:04 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 13*	298	105	211	SARS-CoV-2 sample collected.
82	03/10/2021 09:05 AM	Life Science & Engineering Center (LSEC)	1 st Floor Sitting Area (Room 102)	Surface of Table 14*	278	105	211	SARS-CoV-2 sample collected.
83	03/10/2021 09:23 AM	Laurel Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	233	105	211	SARS-CoV-2 sample collected.
84	03/10/2021 09:24 AM	Laurel Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	177	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
85	03/10/2021 09:25 AM	Laurel Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down*	353	105	211	SARS-CoV-2 sample collected.
86	03/10/2021 09:25 AM	Laurel Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	129	105	211	
87	03/10/2021 09:26 AM	Laurel (Extension) Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	71	105	211	
88	03/10/2021 09:26 AM	Laurel (Extension) Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	65	105	211	
89	03/10/2021 09:27 AM	Laurel (Extension) Residential Hall	4 th Floo r Hallway	4 th Floor Elevator Call Button, Down	74	105	211	
90	03/10/2021 09:28 AM	Laurel (Extension) Residential Hall	5 th Floo r Hallway	5 th Floor Elevator Call Button, Down	134	105	211	
91	03/10/2021 09:28 AM	Laurel (Extension) Residential Hall	6 th Floo r Hallway	6 th Floor Elevator Call Button, Down	22	105	211	
92	03/10/2021 09:29 AM	Laurel (Extension) Residential Hall	7 th Floor Hallway	^{7th} Floor Elevator Call Button, Down	105	105	211	
93	03/10/2021 09:47 AM	Honors College Residential Hall	111	1st Floor "Up" Elevator Call Button, Up	45	105	211	
94	03/10/2021 09:48 AM	Honors College Residential Hall	2 nd Floor Hallway	2 nd Floor "Up" Elevator Call Button, Down	45	105	211	Elevator Lobby Room 111 side of the building.
95	03/10/2021 09:49 AM	Honors College Residential Hall	3 rd Floor Hallway	3 rd Floor "Up" Elevator Call Button, Down	164	105	211	Elevator Lobby Room 111 side of the building.
96	03/10/2021 09:49 AM	Honors College Residential Hall	4 th Floor Hallway	4 th Floor "Up" Elevator Call Button, Down	146	105	211	Elevator Lobby Room 111 side of the building.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
97	03/10/2021 09:50 AM	Honors College Residential Hall	5 th Floor Hallway	5th Floor "Up" Elevator Call Button, Down	92	105	211	Elevator Lobby Room 111 side of the building.
98	03/10/2021 09:50 AM	Honors College Residential Hall	6 th Floor Hallway	6th Floor "Up" Elevator Call Button, Down	116	105	211	Elevator Lobby Room 111 side of the building.
99	03/10/2021 09:51 AM	Honors College Residential Hall	2 nd Floor Hallway	2 nd Floor "Down" Elevator Call Button, Down*	292	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV-2 sample collected.
100	03/10/2021 09:51 AM	Honors College Residential Hall	3 rd Floor Hallway	3 rd Floor "Down" Elevator Call Button, Down*	908	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV-2 sample collected.
101	03/10/2021 09:52 AM	Honors College Residential Hall	4 th Floor Hallway	4 th Floor "Down" Elevator Call Button, Down*	392	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV-2 sample collected.
102	03/10/2021 09:54 AM	Honors College Residential Hall	5 th Floor Hallway	5 th Floor "Down" Elevator Call Button, Down	194	105	211	Elevator Lobby Room 105 side of the building.
103	03/10/2021 09:54 AM	Honors College Residential Hall	6 th Floo r Hallway	6 th Floor "Down" Elevator Call Button, Down	161	105	211	Elevator Lobby Room 105 side of the building.
104	03/10/2021 09:55 AM	Honors College Residential Hall	1 st Floor Kitchen	Surface of Microwave, Handle	64	105	211	
105	03/10/2021 09:55 AM	Honors College Residential Hall	1 st Floor Kitchen	Surface of Faucet Handle	70	105	211	
106	03/10/2021 09:56 AM	Honors College Residential Hall	1st Floor Kitchen	Surface of Refrigerator Handle*	657	105	211	SARS-CoV-2 sample collected.
107	03/10/2021 10:45 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Paramount Dip Bar Handle	129	105	211	Pre-cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
108	03/10/2021 10:45 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Smith Machine 2, Right Side of the Bar	47	105	211	Pre-cleaning sample.
109	03/10/2021 10:46 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Pre-Set 30 lb Jagged Bar*	242	105	211	Pre-cleaning sample.
110	03/10/2021 10:47 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Bench 3	55	105	211	Next to the dumbbell rack. Pre-cleaning sample.
111	03/10/2021 10:47 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of 30 lb Dumbbell	134	105	211	Pre-cleaning sample.
112	03/10/2021 10:48 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Treadmill 3, Interface	78	105	211	Pre-cleaning sample.
113	03/10/2021 10:49 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Stairmaster 3, Right Handle*	457	105	211	Pre-cleaning sample.
114	03/10/2021 10:49 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Pec Fly/Rear Delt Machine, Left Handle*	231	105	211	Pre-cleaning sample.
115	03/10/2021 10:50 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Door Handle to Fitness Center	70	105	211	Lobby side of the door. Pre-cleaning sample.
116	03/10/2021 10:51 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Door Push Bar to Lobby*	444	105	211	Fitness Center side of the door. Pre-cleaning sample.
117	03/10/2021 11:08 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Pre-Set 30 lb Jagged Bar	38	105	211	Test No. 109 post- cleaning sample.
118	03/10/2021 11:09 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Stairmaster 3, Right Handle	49	105	211	Test No. 113 post- cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
119	03/10/2021 11:09 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Pec Fly/Rear Delt Machine, Left Handle	36	105	211	Test No. 114 post- cleaning sample.
120	03/10/2021 11:10 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Door Push Bar to Lobby	21	105	211	Test No. 116 post- cleaning sample.
121	03/10/2021 01:19 PM	Cypress Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	848	105	211	SARS-CoV-2 sample collected.
122	03/10/2021 01:19 PM	Cypress Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	114	105	211	
123	03/10/2021 01:20 PM	Cypress Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	188	105	211	
124	03/10/2021 01:20 PM	Cypress Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	15	105	211	
125	03/10/2021 01:21 PM	Cypress Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	161	105	211	
126	03/10/2021 01:21 PM	Cypress Residential Hall	7 th Floor Hallway	7th Floor Elevator Call Button, Down	70	105	211	
127	03/10/2021 01:22 PM	Cypress Residential Hall	8 th Floor Hallway	8th Floor Elevator Call Button, Down	41	105	211	
128	03/10/2021 01:32 PM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 1 Call Button, Down*	269	105	211	SARS-CoV-2 sample collected.
129	03/10/2021 01:33 PM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 2 Call Button, Down	135	105	211	
130	03/10/2021 01:33 PM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 1 Call Button, Down	202	105	211	
131	03/10/2021 01:34 PM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 2 Call Button, Down	40	105	211	
132	03/10/2021 01:35 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 1 Call Button, Down*	272	105	211	SARS-CoV-2 sample collected.
133	03/10/2021 01:35 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 2 Call Button, Down	147	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
134	03/10/2021 01:49 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 2	14	105	211	
135	03/10/2021 01:49 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 4	32	105	211	
136	03/10/2021 01:50 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 7	8	105	211	
137	03/10/2021 01:51 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 2	19	105	211	
138	03/10/2021 01:51 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 4	38	105	211	
139	03/10/2021 01:52 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 7	37	105	211	
140	03/10/2021 01:52 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 10	15	105	211	
141	03/10/2021 01:53 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 2	65	105	211	
142	03/10/2021 01:53 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 5	43	105	211	
143	03/10/2021 01:54 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 7	51	105	211	
144	03/10/2021 01:54 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 11*	302	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
145	03/10/2021 02:18 PM	Weston Hall	4 th Floor Library	Surface of Table 1	5	105	211	
146	03/10/2021 02:19 PM	Weston Hall	4 th Floor Library	Surface of Table 4, Seat 2	18	105	211	
147	03/10/2021 02:19 PM	Weston Hall	4 th Floor Library	Surface of Table 5, Seat 1	3	105	211	
148	03/10/2021 02:20 PM	Weston Hall	4 th Floor Library	Surface of Table 6, Seat 2	30	105	211	
149	03/10/2021 02:20 PM	Weston Hall	4 th Floor Library	Surface of Table 7, Seat 3	44	105	211	
150	03/10/2021 02:21 PM	Weston Hall	4 th Floor Library	Surface of Table 8	11	105	211	
151	03/10/2021 02:21 PM	Weston Hall	4 th Floor Library	Surface of Table 9	96	105	211	
152	03/10/2021 02:22 PM	Weston Hall	4 th Floor Library	Surface of Table 14, Seat 1	155	105	211	
153	03/10/2021 02:22 PM	Weston Hall	4 th Floor Library	Surface of Table 15, Seat 4	10	105	211	
154	03/10/2021 02:23 PM	Weston Hall	4 th Floor Library	Surface of Computer COAD- WLIB-04, Keyboard	178	105	211	
155	03/10/2021 02:23 PM	Weston Hall	4 th Floor Library	Surface of Table 19, Computer Keyboard	14	105	211	
156	03/10/2021 02:24 PM	Weston Hall	4 th Floor Library	Surface of Window Bench, Seat 1	10	105	211	
157	03/10/2021 02:24 PM	Weston Hall	4 th Floor Library	Surface of Window Bench, Seat 3	16	105	211	
158	03/10/2021 02:24 PM	Weston Hall	4 th Floor Library	Surface of Window Bench, Seat 5	0	105	211	
159	03/10/2021 02:26 PM	Weston Hall	4 th Floor Library	Surface of Window Bench, Seat 7	18	105	211	
160	03/10/2021 02:37 PM	Oak Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	298	105	211	SARS-CoV-2 sample collected.
161	03/10/2021 02:38 PM	Oak Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	172	105	211	

Page 16 of 27 Coronavirus-19 Verification Testing Report {Omega Project #: 21-1040} Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201) 342-5412

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
162	03/10/2021 02:38 PM	Oak Residential Hall	4 th Floor Hallway	4th Floor Elevator Call Button, Down	166	105	211	
163	03/10/2021 02:39 PM	Oak Residential Hall	5 th Floor Hallway	5th Floor Elevator Call Button, Down*	229	105	211	SARS-CoV-2 sample collected.
164	03/10/2021 02:39 PM	Oak Residential Hall	6 th Floor Hallway	6th Floor Elevator Call Button, Down*	297	105	211	SARS-CoV-2 sample collected.
165	03/10/2021 02:39 PM	Oak Residential Hall	7 th Floor Hallway	7th Floor Elevator Call Button, Down	150	105	211	
166	03/10/2021 02:40 PM	Oak Residential Hall	8th Floor Hallway	8th Floor Elevator Call Button, Down*	216	105	211	SARS-CoV-2 sample collected.

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:

- 27-out-of-166 representative ATP surface samples collected reported elevated ATP levels (16.3% of samples). 4-out-of the 27 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services.
- Omega Environmental Services collected SARS-CoV-2 surface samples on all representative surfaces with elevated ATP levels, that were not recleaned by NJIT Building Services.
- In the Wellness Entertainment Center, the average pre-cleaning ATP concentration with 189 RLU, with 40% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 36 RLU, with an 81% decrease in ATP concentrations.

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Campus Center, 1 st Floor Sitting Area, Snack Vending Machine, Touch Screen	Negative
2	Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 1	Negative
3	Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 3	Negative
4	Houten Library, 1st Floor Sitting Area, Computer CA-1047-007, Keyboard	Negative
5	Houten Library, 1st Floor Sitting Area, Computer CA-1047-054, Mouse	Negative
6	Kupfrian Hall, Room 209, Surface of Row 3, Seat 6	Negative
7	Central King Building (CKB), 3 rd Floor Lounge, Surface of Window Bench, Seat 5	Negative
8	Life Sciences & Engineering Center (LSEC), 1st Floor Sitting Area (Room 102), Surface of Table 13	Negative
9	Life Sciences & Engineering Center (LSEC), 1 st Floor Sitting Area (Room 102), Surface of Table 14	Negative
10	Laurel Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative
11	Laurel Residential Hall, 4th Floor Elevator Call Button, Down	Negative
12	Honors College Residential Hall, 2 nd Floor "Down" Elevator Call Button, Down	Negative
13	Honors College Residential Hall, 3 rd Floor "Down" Elevator Call Button, Down	Negative
14	Honors College Residential Hall, 4th Floor "Down" Elevator Call Button, Down	Negative
15	Honors College Residential Hall, 1st Floor Kitchen, Surface of Refrigerator Handle	Negative
16	Cypress Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative
17	Redwood Residential Hall, 3 rd Floor Elevator 1 Call Button, Down	Negative
18	Redwood Residential Hall, 5th Floor Elevator 1 Call Button, Down	Negative
19	Mechanical Engineering Center (MEC), Room 221, Surface of Row 4, Seat 11	Negative
20	Oak Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative
21	Oak Residential Hall, 5th Floor Elevator Call Button, Down	Negative
22	Oak Residential Hall, 6th Floor Elevator Call Button, Down	Negative
23	Oak Residential Hall, 8th Floor Elevator Call Button, Down	Negative

Surface SARS-CoV-2 Swab Data: 3/09-3/10/2021

SARS-CoV-2 Air Sample Data: 3/09-3/10/2021

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	Guttenberg Information Technologies Center (GITC), Room 1100	Negative
2	Houten Library, 1 st Floor Sitting Area	Negative
3	Cullimore Hall, Room 104	Negative
4	Campus Center, 1 st Floor Sitting Area	Negative
5	Central King Building (CKB), 3rd Floor Lounge	Negative
6	Faculty Memorial Hall (FMH), Room 110	Negative
7	Tiernan Hall, Room 113	Negative
8	Wellness Entertainment Center (WEC), 2 nd Floor Fitness Center	Negative
9	Life Sciences & Engineering Center (LSEC), 1 st Floor Sitting Area (Room 102)	Negative
10	Honors College Residential Hall, 1st Floor Lobby	Negative
11	Laurel Residential Hall, Vestibule	Negative
12	Laurel (Extension) Residential Hall, 1 st Floor Hallway, Next to the Elevator	Negative
13	Cypress Residential Hall, 1 st Floor Lobby	Negative
14	Mechanical Engineering Center (MEC), Room 221	Negative
15	Kupfrian Hall, Room 209	Negative
16	Weston Hall, 4 th Floor Library	Negative

Data Interpretation:

• Laboratory results indicate all the SARS-CoV-2 air samples collected on 3/09 and 3/10/2021 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: 3-9-2021

Submittal date: 3-9-2021

Sample received: 3-10-2021

Samples submitted by: Ross Hernandez

Date analysis completed: March 11, 2021

Prestige Report number: 210310-02

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
210310-02-008 01 GITC, Room 1100	ND	ND	ND	ND	Non-Detected
210310-02-009 02 Houten Library, 1 st Floor Sitting Area	ND	ND	ND	ND	Non-Detected
210310-02-010 03 Cullimore Hall, Room 104	ND	ND	ND	ND	Non-Detected
210310-02-011 04 Campus Center, 1 st Floor Sitting Area	ND	ND	ND	ND	Non-Detected
210310-02-012 05 CKB, 3 rd Floor Lounge	ND	ND	ND	ND	Non-Detected
210310-02-013 06 FMH, Room 110	ND	ND	ND	ND	Non-Detected
210310-02-014 07 Tiernan Hall, Room 113	ND	ND	ND	ND	Non-Detected
210310-02-015 08 WEC, 2 nd Floor Fitness Center	ND	ND	ND	ND	Non-Detected

RT-PCR 2019-nCoV:

Presence/Non-detection Analysis of Swab samples for the SARS-CoV-2 Genetic Markers

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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
210310-02-016 01 Campus Center, 1 st Floor Sitting Area, Snack Vending Machine, Touch Screen	ND	ND	ND	ND	Non-Detected
210310-02-017 02 Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 1	ND	ND	ND	ND	Non-Detected
210310-02-018 03 Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 3	ND	ND	ND	ND	Non-Detected
210310-02-019 04 Houten Library, 1 st Floor Sitting Area, Computer CA1047-007, Keyboard	ND	ND	ND	ND	Non-Detected
210310-02-020 05 Houten Library, 1 st Sitting Area, Computer CA-1047- 054, Mouse	ND	ND	ND	ND	Non-Detected
210310-02-021 06 Kupfrian Hall, Room 209, Surface of Row 3, Seat 6	ND	ND	ND	ND	Non-Detected

Report approved:

Technical Manager:

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Theresa Lehman, MPH, Lab Director

Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

 The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
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- 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

Analytical Test Report

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

Client Project/Name: 21-1040

Sample date: 3-10-2021

Submittal date: 3-10-2021

Sample received: 3-11-2021

Samples submitted by: Ross Hernandez

Date analysis completed: March 12, 2021

Prestige Report number: 210311-01

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
210311-01-001 09 LSEC, 1 st Floor Sitting Area, Room 102	ND	ND	ND	ND	Non-Detected
210311-01-002 10 Honors College Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210311-01-003 11 Laurel Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210311-01-004 12 Laurel (Ext) Hall, 1 st Fl Hallway, Near the Elevator	ND	ND	ND	ND	Non-Detected
210311-01-005 13 Cypress Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210311-01-006 14 MEC, Room 221	ND	ND	ND	ND	Non-Detected
210311-01-007 15 Kupfrian Hall, Room 209	ND	ND	ND	ND	Non-Detected
210311-01-008 16 Weston Hall, 4 th Floor Library	ND	ND	ND	ND	Non-Detected

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RT-PCR 2019-nCoV:

Presence/Non-detection Analysis of Swab samples for the SARS-CoV-2 Genetic Markers

Presence/Non-detection	Analysis of Swa	ab samples for the	E SAKS-CUV-2	Ochetic Markers	
Prestige #	2019-nCoV	Cycle Threshold	2019-nCoV	Cycle Threshold	Presence/
Client sample ID		(Ct) Value ³		Value ³	Non-Detected
Location	(N1 Protein)	(N1 Protein)	(N2 Protein)	(N2 Protein)	Non-Detected
210311-01-009 07 CKB, 3 rd Floor Lounge, Surface of Window Bench, Seat 5	ND	ND	ND	ND	Non-Detected
210311-01-010 08 LSEC, Room 102, Surface of Table 13	ND	ND	ND	ND	Non-Detected
210311-01-011 09 LSEC, Room 102, Surface of Table 14	ND	ND	ND	ND	Non-Detected
210311-01-012 10 Laurel Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-013 11 Laurel Hall, 4 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-014 12 Honors College Hall, 2 nd Floor "Down" Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-015 13 Honors College Hall, 3 rd Floor "Down" Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-016 14 Honors College Hall, 4 th Floor "Down" Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-017 15 Honors College Hall, 1 st Floor Kitchen, Refrigerator Handle	ND	ND	ND	ND	Non-Detected
210311-01-018 16 Cypress Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected

210311-01-019 17 Redwood Hall, 3 rd Floor Elevator 1 Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-020 18 Redwood Hall, 5 th Floor Elevator 1 Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-021 19 MEC, Room 221, Row 5, Seat 11	ND	ND	ND	ND	Non-Detected
210311-01-022 20 Oak Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-023 21 Oak Hall, 5 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-024 22 Oak Hall, 6 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210311-01-025 23 Oak Hall, 8 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected

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Theresa Lehman, MPH, Lab Director

Technical Manager:

Report approved:

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

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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