



# POST-DISINFECTION CORONAVIRUS-19 FIELD VERIFICATION TESTING REPORT

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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: 2/3-2/4/2021

DATE OF REPORT: 2/5/2021

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

{Omega Project#: 21-1040}

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Executive Summary:

On 2/3/2021 and 2/4/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

- Weston Hall
- Campus Center
- Wellness Entertainment Center (WEC)
- Cullimore Hall
- Kupfrian Hall
- Tiernan Hall
- Central King Building (CKB)
- Life Sciences and Engineering Center (LSEC)
- Laurel Residence Hall
- Greek Residence Buildings 1-5
- Honors College Residence Hall
- Cypress Residence Hall

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

Parameter	Results
<p style="text-align: center;">Adenosine Triphosphate (ATP) Direct Reads: Bioluminescence Meter (Detects Bacteria and Bio-Load)</p>	<p>30 out of the 186 representative ATP surface samples collected reported elevated ATP levels (16.1% of samples). 6-out-of-the 30 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services.</p> <ul style="list-style-type: none"> <li>• 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.               <ul style="list-style-type: none"> <li>• In the Wellness Entertainment Center, the average pre-cleaning ATP concentration was 312 RLU, with 50% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration was 36 RLU, with an 88% decrease in ATP concentrations.</li> </ul> </li> </ul>
<p style="text-align: center;">Coronavirus-19 PCR Samples</p>	<ul style="list-style-type: none"> <li>• Laboratory results indicate all the SARS-CoV-2 samples collected on 2/3/21 and 2/4/21 were negative.</li> </ul>

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

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

- **REAL-TIME FIELD SCREEN USING ATP DIRECT-READ BIO-LUMINESCENCE METER AND WHITE CLOTH TESTS:** Omega field IH to inspect 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	02/03/2021 10:02 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of ATM, “Ok” Button	107	105	211	
2	02/03/2021 10:02 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen	113	105	211	
3	02/03/2021 10:03 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Drink Vending Machine, Keypad	58	105	211	
4	02/03/2021 10:03 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Amazon Locker, Touch Screen	121	105	211	
5	02/03/2021 10:04 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 3, Seat 2*	3,367	105	211	SARS-CoV-2 sample collected.
6	02/03/2021 10:04 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Door Handle to Senate Office, Room 110C*	234	105	211	Campus Center side of the door. SARS-CoV-2 sample collected.
7	02/03/2021 10:05 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Door Handle to GSA Office, Room 110A	74	105	211	Campus Center side of the door.
8	02/03/2021 10:05 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Elevator Call Button, “Up”	89	105	211	
9	02/03/2021 10:56 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Treadmill 1, Interface	37	105	211	Pre-cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
10	02/03/2021 10:57 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Rotary Shoulder Machine, Right Handle*	247	105	211	Pre-cleaning sample.
11	02/03/2021 10:58 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Dip Machine, Right Handle	6	105	211	Pre-cleaning sample.
12	02/03/2021 10:58 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Central Jungle Bars*	363	105	211	Pre-cleaning sample.
13	02/03/2021 10:58 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Paramount Chin Up Bar, Right Handle	174	105	211	Pre-cleaning sample.
14	02/03/2021 10:59 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Life Fitness Squat Rack 2, Bar*	737	105	211	Pre-cleaning sample.
15	02/03/2021 10:59 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of 20 lb Dumbbell Handle	197	105	211	Pre-cleaning sample.
16	02/03/2021 10:59 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Adjustable Bench 3, Seat*	504	105	211	Pre-cleaning sample.
17	02/03/2021 11:00 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Life Fitness Stationary Bike 3, Interface	57	105	211	Pre-cleaning sample.
18	02/03/2021 11:00 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Life Fitness Elliptical 1, Interface	26	105	211	Pre-cleaning sample.
19	02/03/2021 11:01 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Door Push Bar*	838	105	211	Fitness Center side of the door. Pre-cleaning sample.
20	02/03/2021 11:01 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Door Handle*	558	105	211	Hallway side of the door. Pre- cleaning sample.
21	02/03/2021 11:27 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Rotary Shoulder Machine, Right Handle	36	105	211	Test No. 10 post-cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
22	02/03/2021 11:28 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Central Jungle Bars	70	105	211	Test No. 12 post-cleaning sample.
23	02/03/2021 11:28 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Paramount Chin Up Bar, Right Handle	32	105	211	Test No. 13 post-cleaning sample.
24	02/03/2021 11:29 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Life Fitness Squat Rack 2, Bar	41	105	211	Test No. 14 post-cleaning sample.
25	02/03/2021 11:30 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of 20 lb Dumbbell Handle	37	105	211	Test No. 15 post-cleaning sample.
26	02/03/2021 11:30 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Adjustable Bench 3, Seat	31	105	211	Test No. 16 post-cleaning sample.
27	02/03/2021 11:34 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Door Push Bar	19	105	211	Test No. 19 post-cleaning sample.
28	02/03/2021 11:34 AM	WEC	2 <sup>nd</sup> Floor Fitness Center	Surface of Door Handle	21	105	211	Test No. 20 post-cleaning sample.
29	02/03/2021 12:07 PM	Cullimore Hall	104	Surface of Row 1, Seat 2	12	105	211	
30	02/03/2021 12:07 PM	Cullimore Hall	104	Surface of Row 1, Seat 5	30	105	211	
31	02/03/2021 12:08 PM	Cullimore Hall	104	Surface of Row 1, Seat 10	44	105	211	
32	02/03/2021 12:08 PM	Cullimore Hall	104	Surface of Row 3, Seat 1	11	105	211	
33	02/03/2021 12:09 PM	Cullimore Hall	104	Surface of Row 3, Seat 4	19	105	211	
34	02/03/2021 12:10 PM	Cullimore Hall	104	Surface of Row 3, Seat 8	21	105	211	
35	02/03/2021 12:10 PM	Cullimore Hall	104	Surface of Row 5, Seat 2	4	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
36	02/03/2021 12:11 PM	Cullimore Hall	104	Surface of Row 5, Seat 5	28	105	211	
37	02/03/2021 12:11 PM	Cullimore Hall	104	Surface of Row 5, Seat 7	14	105	211	
38	02/03/2021 12:12 PM	Cullimore Hall	104	Surface of Row 7, Seat 2	23	105	211	
39	02/03/2021 12:12 PM	Cullimore Hall	104	Surface of Row 7, Seat 4	6	105	211	
40	02/03/2021 12:13 PM	Cullimore Hall	104	Surface of Row 7, Seat 8	8	105	211	
41	02/03/2021 12:13 PM	Cullimore Hall	104	Surface of Row 9, Seat 1	4	105	211	
42	02/03/2021 12:14 PM	Cullimore Hall	104	Surface of Row 9, Seat 5	5	105	211	
43	02/03/2021 12:14 PM	Cullimore Hall	104	Surface of Row 9, Seat 7	5	105	211	
44	02/03/2021 12:15 PM	Cullimore Hall	104	Surface of Door Push Bar	57	105	211	To the right of the instructor. Classroom side of the door.
45	02/03/2021 12:15 PM	Cullimore Hall	104	Surface of Light Switch, Interface	11	105	211	Behind the instructor.
46	02/03/2021 12:47 PM	Kupfrian Hall	210	Surface of Row 1, Seat 1	20	105	211	
47	02/03/2021 12:47 PM	Kupfrian Hall	210	Surface of Row 2, Seat 2	88	105	211	
48	02/03/2021 12:48 PM	Kupfrian Hall	210	Surface of Row 2, Seat 5	46	105	211	
49	02/03/2021 12:48 PM	Kupfrian Hall	210	Surface of Row 2, Seat 6	170	105	211	SARS-CoV-2 sample collected.
50	02/03/2021 12:49 PM	Kupfrian Hall	210	Surface of Row 3, Seat 1	11	105	211	
51	02/03/2021 12:49 PM	Kupfrian Hall	210	Surface of Row 4, Seat 3	48	105	211	
52	02/03/2021 12:50 PM	Kupfrian Hall	210	Surface of Row 4, Seat 5	9	105	211	
53	02/03/2021 12:50 PM	Kupfrian Hall	210	Surface of Row 4, Seat 7	18	105	211	



Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
54	02/03/2021 12:51 PM	Kupfrian Hall	210	Surface of Row 5, Seat 1	12	105	211	
55	02/03/2021 12:51 PM	Kupfrian Hall	210	Surface of Row 6, Seat 2	7	105	211	
56	02/03/2021 12:52 PM	Kupfrian Hall	210	Surface of Row 6, Seat 4	27	105	211	
57	02/03/2021 12:52 PM	Kupfrian Hall	210	Surface of Row 6, Seat 6	30	105	211	
58	02/03/2021 12:53 PM	Kupfrian Hall	210	Surface of Door Handle	60	105	211	Classroom side of the door.
59	02/03/2021 12:53 PM	Kupfrian Hall	210	Surface of Center Light Switch	59	105	211	
60	02/03/2021 02:22 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 2	0	105	211	
61	02/03/2021 02:23 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 6	0	105	211	
62	02/03/2021 02:23 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 7	64	105	211	
63	02/03/2021 02:23 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 3	0	105	211	
64	02/03/2021 02:24 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 7	3	105	211	
65	02/03/2021 02:25 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 11	6	105	211	
66	02/03/2021 02:25 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 1	0	105	211	
67	02/03/2021 02:25 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 6	1	105	211	
68	02/03/2021 02:26 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 9	3	105	211	
69	02/03/2021 02:26 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 3	9	105	211	
70	02/03/2021 02:27 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 8	7	105	211	
71	02/03/2021 02:27 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 13	1	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
72	02/03/2021 02:28 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 1	0	105	211	
73	02/03/2021 02:28 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 6	0	105	211	
74	02/03/2021 02:29 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 10	1	105	211	
75	02/03/2021 02:29 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 2	0	105	211	
76	02/03/2021 02:30 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 5	0	105	211	
77	02/03/2021 02:31 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 10	1	105	211	
78	02/03/2021 02:32 PM	Tiernan Hall	THL 1	Surface of Front Door Push Bar	112	105	211	Front of the classroom. To the right of the professor. Classroom side of the door.
79	02/03/2021 02:32 PM	Tiernan Hall	THL 1	Surface of Light Switch Interface	134	105	211	To the right of the professor.
80	02/03/2021 02:48 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Window Bench, Seat 1	7	105	211	
81	02/03/2021 02:48 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Window Bench, Seat 3	111	105	211	
82	02/03/2021 02:49 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Window Bench, Seat 5	124	105	211	SARS-CoV-2 sample collected.
83	02/03/2021 02:50 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Table 1, Seat 1	14	105	211	
84	02/03/2021 02:50 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Table 1, Seat 2	22	105	211	
85	02/03/2021 02:50 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Round Table 1	78	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
86	02/03/2021 02:51 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Round Table 2	14	105	211	
87	02/03/2021 02:51 PM	Central King Building (CKB)	3 <sup>rd</sup> Floor Lounge	Surface of Door Handle to Room 338A	120	105	211	Lounge side of the door. SARS-CoV-2 sample collected.
88	02/04/2021 08:55 AM	LSEC	102	Surface of Table 2	8	105	211	
89	02/04/2021 08:56 AM	LSEC	102	Surface of Table 3	2	105	211	
90	02/04/2021 08:56 AM	LSEC	102	Surface of Table 4	72	105	211	
91	02/04/2021 08:57 AM	LSEC	102	Surface of Table 5	28	105	211	
92	02/04/2021 08:57 AM	LSEC	102	Surface of Table 6	21	105	211	
93	02/04/2021 08:57 AM	LSEC	102	Surface of Table 7	124	105	211	
94	02/04/2021 08:58 AM	LSEC	102	Surface of Table 8	43	105	211	
95	02/04/2021 08:58 AM	LSEC	102	Surface of Table 9	6	105	211	
96	02/04/2021 08:59 AM	LSEC	102	Surface of Table 10	5	105	211	
97	02/04/2021 08:59 AM	LSEC	102	Surface of Table 11	1	105	211	
98	02/04/2021 08:59 AM	LSEC	102	Surface of Table 12	11	105	211	
99	02/04/2021 09:00 AM	LSEC	102	Surface of Table 13	84	105	211	
100	02/04/2021 09:00 AM	LSEC	102	Surface of Table 14	27	105	211	
101	02/04/2021 09:10 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Lobby	Surface of Door Handle to Elevators	165	105	211	Lobby side of the door. SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
102	02/04/2021 09:11 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Lobby	Surface of Door Handle to Vestibule	175	105	211	Lobby side of the door. SARS-CoV-2 sample collected.
103	02/04/2021 09:11 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Faucet Handle	136	105	211	
104	02/04/2021 09:12 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Microwave Handle*	823	105	211	SARS-CoV-2 sample collected.
105	02/04/2021 09:12 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Refrigerator Handle	81	105	211	
106	02/04/2021 09:13 AM	Laurel Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Freezer Handle	205	105	211	SARS-CoV-2 sample collected.
107	02/04/2021 09:14 AM	Laurel Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator Call Button, Up	108	105	211	
108	02/04/2021 09:15 AM	Laurel Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Elevator Call Button, Down	94	105	211	
109	02/04/2021 09:16 AM	Laurel Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator Call Button, Down	27	105	211	
110	02/04/2021 09:16 AM	Laurel Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator Call Button, Down	3	105	211	
111	02/04/2021 09:17 AM	Laurel Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator Call Button, Down	17	105	211	
112	02/04/2021 09:17 AM	Laurel (Extension) Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator Call Button, Up	36	105	211	

113	02/04/2021 09:17 AM	Laurel (Extension) Residential Hall	2nd Floor Hallway	2nd Floor Elevator Call Button, Down	26	105	211	
114	02/04/2021 09:18 AM	Laurel (Extension) Residential Hall	3rd Floor Hallway	3rd Floor Elevator Call Button, Down	5	105	211	
115	02/04/2021 09:18 AM	Laurel (Extension) Residential Hall	4th Floor Hallway	4th Floor Elevator Call Button, Down	12	105	211	
116	02/04/2021 09:19 AM	Laurel (Extension) Residential Hall	5th Floor Hallway	5th Floor Elevator Call Button, Down	40	105	211	
117	02/04/2021 09:19 AM	Laurel (Extension) Residential Hall	6th Floor Hallway	6th Floor Elevator Call Button, Down	25	105	211	
118	02/04/2021 09:20 AM	Laurel (Extension) Residential Hall	7th Floor Hallway	7th Floor Elevator Call Button, Down	4	105	211	
119	02/04/2021 09:50 AM	Greek House Delta Fie Epsilon	Outside	Surface of Door Handle to Lobby	21	105	211	
120	02/04/2021 09:51 AM	Greek House Alpha Sigma Epsilon	Outside	Surface of Door Handle to Lobby	96	105	211	
121	02/04/2021 09:53 AM	Greek House Sigma Pi	Outside	Surface of Door Handle to Lobby	28	105	211	
122	02/04/2021 09:54 AM	Greek House Delta Epsilon Psi	Outside	Surface of Door Handle to Lobby	45	105	211	
123	02/04/2021 09:54 AM	Greek House Sigma Alpha Epsilon	Outside	Surface of Door Handle to Lobby	79	105	211	
124	02/04/2021 09:54 AM	Greek House Kappa Chi Kappa	Outside	Surface of Door Handle to Lobby	2	105	211	
125	02/04/2021 09:55 AM	Greek House Tau Delta Phi	Outside	Surface of Door Handle to Lobby	42	105	211	
126	02/04/2021 09:56 AM	Greek House Phi Epsilon Kappa	Outside	Surface of Door Handle to Lobby	6	105	211	

127	02/04/2021 09:56 AM	Greek House Alpha Sigma Tau	Outside	Surface of Door Handle to Lobby	38	105	211	
128	02/04/2021 09:57 AM	Greek House Pi Kappa Fie	Outside	Surface of Door Handle to Lobby	111	105	211	
129	02/04/2021 09:57 AM	Honors College Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Refrigerator Handle	77	105	211	
130	02/04/2021 09:58 AM	Honors College Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Freezer Handle	39	105	211	
131	02/04/2021 09:58 AM	Honors College Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Microwave Handle	28	105	211	
132	02/04/2021 09:59 AM	Honors College Residence Hall	1 <sup>st</sup> Floor Kitchen	Surface of Faucet Handle*	1,042	105	211	SARS-CoV-2 sample collected.
133	02/04/2021 09:59 AM	Honors College Residence Hall	1 <sup>st</sup> Floor Kitchen	Door Handle to Lobby	145	105	211	Kitchen side of the door.
134	02/04/2021 10:02 AM	Honors College Residence Hall	111	Door Handle to "Up" Elevator Lobby	46	105	211	Lobby side of the door.
135	02/04/2021 10:13 AM	Honors College Residence Hall	111	1 <sup>st</sup> Floor "Up" Elevator Call Button, Up	97	105	211	
136	02/04/2021 10:14 AM	Honors College Residence Hall	111	1 <sup>st</sup> Floor Door Handle to Stairs*	413	105	211	Elevator Lobby Room 111 side of the building. Elevator Lobby Room 111 side of the door. SARS-CoV-2 sample collected.
137	02/04/2021 10:14 AM	Honors College Residence Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor "Up" Elevator Call Button, Down	86	105	211	Elevator Lobby Room 111 side of the building
138	02/04/2021 10:14 AM	Honors College Residence Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Door Push Bar to Stairs	64	105	211	Elevator Lobby Room 111 side of the building. Lobby side of the door.
139	02/04/2021 10:20 AM	Honors College Residence Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor "Up" Elevator Call Button, Down	131	105	211	Elevator Lobby Room 111 side of the building.
140	02/04/2021 10:22 AM	Honors College Residence Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Door Push Bar to Stairs*	254	105	211	Elevator Lobby Room 111 side of the building. Lobby side of the door. SARS-CoV-2 sample collected.
141	02/04/2021 10:22 AM	Honors College Residence Hall	Lounge 318	Surface of Microwave Handle	90	105	211	
142	02/04/2021 10:23 AM	Honors College Residence Hall	Lounge 318	Surface of Faucet Hot Knob	72	105	211	

143	02/04/2021 10:30 AM	Honors College Residence Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor “Up” Elevator Call Button, Down	106	105	211	Elevator Lobby Room 111 side of the building.
144	02/04/2021 10:30 AM	Honors College Residence Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Door Push Bar to Stairs	23	105	211	Elevator Lobby Room 111 side of the building. Lobby side of the door.
145	02/04/2021 10:31 AM	Honors College Residence Hall	Lounge 418	Surface of Microwave Handle*	286	105	211	SARS-CoV-2 sample collected.
146	02/04/2021 10:31 AM	Honors College Residence Hall	Lounge 418	Surface of Faucet Handle, Hot Knob*	221	105	211	SARS-CoV-2 sample collected.
147	02/04/2021 10:38 AM	Honors College Residence Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor “Up” Elevator Call Button, Down	128	105	211	Elevator Lobby Room 111 side of the building.
148	02/04/2021 10:38 AM	Honors College Residence Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Door Push Bar to Stairs	39	105	211	Elevator Lobby Room 111 side of the building. Lobby side of the door.
149	02/04/2021 10:39 AM	Honors College Residence Hall	Lounge 518	Surface of Microwave Handle	193	105	211	
150	02/04/2021 10:39 AM	Honors College Residence Hall	Lounge 518	Surface of Faucet Handle, Hot Knob	20	105	211	
151	02/04/2021 10:44 AM	Honors College Residence Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor “Up” Elevator Call Button, Down	119	105	211	Elevator Lobby Room 111 side of the building.
152	02/04/2021 10:44 AM	Honors College Residence Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor Door Push Bar to Stairs	23	105	211	Elevator Lobby Room 111 side of the building. Lobby side of the door.
153	02/04/2021 10:45 AM	Honors College Residence Hall	Lounge 618	Surface of Microwave Handle*	347	105	211	SARS-CoV-2 sample collected.
154	02/04/2021 10:45 AM	Honors College Residence Hall	Lounge 618	Surface of Faucet Handle, Hot Knob*	1,083	105	211	SARS-CoV-2 sample collected.
155	02/04/2021 10:54 AM	Honors College Residence Hall	105	Door Handle to “Down” Elevator Lobby*	543	105	211	Elevator Lobby 105 side of the door. SARS-CoV-2 sample collected.
156	02/04/2021 10:54 AM	Honors College Residence Hall	105	1 <sup>st</sup> Floor “Down” Elevator Call Button, Up	210	105	211	SARS-CoV-2 sample collected.
157	02/04/2021 10:55 AM	Honors College Residence Hall	105	1 <sup>st</sup> Floor Door Push Bar to Stairs	0	105	211	Stairwell side of the door.
158	02/04/2021 10:56 AM	Honors College Residence Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor “Down” Elevator Call Button, Down*	342	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
159	02/04/2021 10:56 AM	Honors College Residence Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Door Push Bar to Stairs	106	105	211	Elevator Lobby Room 105 side of the building. Lobby side of the door.

160	02/04/2021 11:03 AM	Honors College Residence Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor “Down” Elevator Call Button, Down	133	105	211	Elevator Lobby Room 105 side of the building.
161	02/04/2021 11:03 AM	Honors College Residence Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Door Push Bar to Stairs*	332	105	211	Elevator Lobby Room 105 side of the building. Lobby side of the door.
162	02/04/2021 11:04 AM	Honors College Residence Hall	Lounge 337	Surface of Microwave Handle	54	105	211	
163	02/04/2021 11:04 AM	Honors College Residence Hall	Lounge 337	Surface of Faucet Handle, Hot Knob*	305	105	211	SARS-CoV-2 sample collected.
164	02/04/2021 11:10 AM	Honors College Residence Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor “Down” Elevator Call Button, Down*	364	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
165	02/04/2021 11:11 AM	Honors College Residence Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Door Push Bar to Stairs*	268	105	211	Elevator Lobby Room 105 side of the building. Lobby side of the door. SARS-CoV-2 sample collected.
166	02/04/2021 11:11 AM	Honors College Residence Hall	Lounge 437	Surface of Microwave Handle*	648	105	211	SARS-CoV-2 sample collected.
167	02/04/2021 11:12 AM	Honors College Residence Hall	Lounge 437	Surface of Faucet Handle, Hot Knob*	352	105	211	SARS-CoV-2 sample collected.
168	02/04/2021 11:17 AM	Honors College Residence Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor “Down” Elevator Call Button, Down	47	105	211	Elevator Lobby Room 105 side of the building.
169	02/04/2021 11:18 AM	Honors College Residence Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Door Push Bar to Stairs	37	105	211	Elevator Lobby Room 105 side of the building. Lobby side of the door.
170	02/04/2021 11:18 AM	Honors College Residence Hall	Lounge 537	Surface of Microwave Handle*	313	105	211	SARS-CoV-2 sample collected.
171	02/04/2021 11:19 AM	Honors College Residence Hall	Lounge 537	Surface of Faucet Handle, Hot Knob*	1,682	105	211	SARS-CoV-2 sample collected.
172	02/04/2021 11:23 AM	Honors College Residence Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor “Down” Elevator Call Button, Down*	402	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
173	02/04/2021 11:23 AM	Honors College Residence Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor Door Push Bar to Stairs	47	105	211	Elevator Lobby Room 105 side of the building. Lobby side of the door.
174	02/04/2021 11:24 AM	Honors College Residence Hall	Lounge 637	Surface of Microwave Handle	172	105	211	
175	02/04/2021 11:24 AM	Honors College Residence Hall	Lounge 637	Surface of Faucet Handle, Hot Knob	49	105	211	



176	02/04/2021 01:12 PM	Cypress Residential Hall	1st Floor Lobby	Door Handle to Elevators*	522	105	211	Lobby side of the door. SARS-CoV-2 sample collected.
177	02/04/2021 01:13 PM	Cypress Residential Hall	1st Floor Lobby	Door Push Bar to Vestibule*	233	105	211	Lobby side of the door. SARS-CoV-2 sample collected.
178	02/04/2021 01:25 PM	Cypress Residential Hall	1st Floor Hallway	1st Floor Elevator Call Button, Up	85	105	211	
179	02/04/2021 01:26 PM	Cypress Residential Hall	2nd Floor Hallway	2nd Floor Elevator Call Button, Down*	318	105	211	SARS-CoV-2 sample collected.
180	02/04/2021 01:26 PM	Cypress Residential Hall	3rd Floor Hallway	3rd Floor Elevator Call Button, Down	51	105	211	
181	02/04/2021 01:26 PM	Cypress Residential Hall	4th Floor Hallway	4th Floor Elevator Call Button, Down	71	105	211	
182	02/04/2021 01:27 PM	Cypress Residential Hall	5th Floor Hallway	5th Floor Elevator Call Button, Down	40	105	211	
183	02/04/2021 01:27 PM	Cypress Residential Hall	6th Floor Hallway	6th Floor Elevator Call Button, Down	10	105	211	
184	02/04/2021 01:28 PM	Cypress Residential Hall	7th Floor Hallway	7th Floor Elevator Call Button, Down	34	105	211	
185	02/04/2021 01:28 PM	Cypress Residential Hall	8th Floor Hallway	8th Floor Elevator Call Button, Down	54	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:**

- 30-out-of-186 representative ATP surface samples collected reported elevated ATP levels (16.1% of samples). 6-out-of-the 30 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 re-cleaned by NJIT Building Services.

**Surface SARS-CoV-2 Swab Data: 2/3 – 2/4/2021**

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface of Table 3, Seat 2	Negative
2	Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface of Door Handle to Senate Office (Room 110C), Campus Center Side of the Door	Negative
3	Kupfrian Hall, Room 210, Surface of Row 2, Seat 6	Negative
4	Central King Building (CKB), 3 <sup>rd</sup> Floor Lounge, Surface of Window Bench, Seat 5	Negative
5	Central King Building (CKB), 3 <sup>rd</sup> Floor Lounge, Surface of Door Handle to Room 338A, Lounge Side of the Door	Negative
6	Laurel Residence Hall, 1 <sup>st</sup> Floor Lobby, Surface of Door Handle to Elevators, Lobby Side of the Door	Negative
7	Laurel Residence Hall, 1 <sup>st</sup> Floor Lobby, Surface of Door Handle to Vestibule, Lobby Side of the Door	Negative
8	Laurel Residence Hall, 1 <sup>st</sup> Floor Kitchen, Surface of Microwave Handle	Negative
9	Laurel Residence Hall, 1 <sup>st</sup> Floor Kitchen, Surface of Freezer Handle	Negative
10	Honors College Residence Hall, 1 <sup>st</sup> Floor Kitchen, Surface of Faucet Handle	Negative
11	Honors College Residence Hall, Elevator Lobby 111, Surface of Door Handle to Stairwell, Elevator Side of the Door	Negative
12	Honors College Residence Hall, 3 <sup>rd</sup> Floor Hallway, Surface of Door Push Bar to Stairs, Lobby Side of the Door, Next to “Up” Elevator	Negative
13	Honors College Residence Hall, Lounge 418, Surface of Microwave Handle	Negative
14	Honors College Residence Hall, Lounge 418, Surface of Faucet Handle, Hot Knob	Negative
15	Honors College Residence Hall, Lounge 618, Surface of Microwave Handle	Negative
16	Honors College Residence Hall, Lounge 618, Surface of Faucet Handle, Hot Knob	Negative
17	Honors College Residence Hall, Elevator Lobby 105, Surface of Door Handle to Elevators, Elevator Side of the Door	Negative
18	Honors College Residence Hall, 1 <sup>st</sup> Floor “Down” Elevator Call Button, Up	Negative
19	Honors College Residence Hall, 2 <sup>nd</sup> Floor “Down” Elevator Call Button, Down	Negative
20	Honors College Residence Hall, 3 <sup>rd</sup> Floor Hallway, Surface of Door Push Bar to Stairs, Lobby Side of the Door, Next to “Down” Elevator	Negative
21	Honors College Residence Hall, Lounge 337, Surface of Faucet Handle, Hot Knob	Negative
22	Honors College Residence Hall, 4 <sup>th</sup> Floor “Down” Elevator Call Button, Down	Negative
23	Honors College Residence Hall, 4 <sup>th</sup> Floor Hallway, Surface of Door Push Bar to Stairs, Lobby Side of the Door, Next to “Down” Elevator	Negative
24	Honors College Residence Hall, Lounge 437, Surface of Microwave Handle	Negative
25	Honors College Residence Hall, Lounge 437, Surface of Faucet Handle, Hot Knob	Negative
26	Honors College Residence Hall, Lounge 537, Surface of Microwave Handle	Negative
27	Honors College Residence Hall, Lounge 537, Surface of Faucet Handle, Hot Knob	Negative
28	Honors College Residence Hall, 6 <sup>th</sup> Floor “Down” Elevator Call Button, Down	Negative
29	Cypress Residence Hall, 1 <sup>st</sup> Floor Lobby, Door Handle to Elevators, Lobby Side of the Door	Negative
30	Cypress Residence Hall, 1 <sup>st</sup> Floor Lobby, Door Push Bar to Vestibule, Lobby Side of the Door	Negative
31	Cypress Residence Hall, 2 <sup>nd</sup> Floor Elevator Call Button, Down	Negative

**SARS-CoV-2 Air Sample Data: 2/3 – 2/4/2021**

<b>Sample No.</b>	<b>SARS-CoV-2 Air Sample Locations</b>	<b>Result (Positive/Negative)</b>
1	Weston Hall, 4 <sup>th</sup> Floor Library	Negative
2	Campus Center, 1 <sup>st</sup> Floor Sitting Area, Next to ATM Machine	Negative
3	Kupfrian Hall, Room 210A	Negative
4	Wellness Entertainment Center (WEC), 2 <sup>nd</sup> Floor Fitness Center	Negative
5	Cullimore Hall, Room 104	Negative
6	Central King Building (CKB), 3 <sup>rd</sup> Floor Lounge	Negative
7	Tiernan Hall, Room THL 1	Negative
8	Life Science and Engineering Center (LSEC), Ground Floor Sitting Area	Negative
9	Cypress Residence Hall, 1 <sup>st</sup> Floor Lobby	Negative
10	Honors College Residence Hall, 1 <sup>st</sup> Floor Lobby	Negative
11	Laurel Residence Hall, Vestibule	Negative
12	Laurel (Extension) Residence Hall, 1 <sup>st</sup> Floor Hallway, Next to the Elevators	Negative

**Data Interpretation:**

- Laboratory results indicate all the SARS-CoV-2 samples collected on 2/3 and 2/4/2021 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: 2-3-2021

Submittal date: 2-3-2021

Sample received: 2-4-2021

Samples submitted by: Ross Hernandez

Date analysis completed: February 4, 2021

Prestige Report number: 210204-01

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Conc. (copies of RNA/L)
210204-01-001 01 Weston Hall, 4 <sup>th</sup> Floor Library	ND	ND	ND	ND	NA
210204-01-002 02 Campus Center, 1 <sup>st</sup> Floor Sitting Area, Next to ATM	ND	ND	ND	ND	NA
210204-01-003 03 Kupfrian Hall, Room 210A	ND	ND	ND	ND	NA
210204-01-004 04 WEC, 2 <sup>nd</sup> Floor Fitness Center	ND	ND	ND	ND	NA
210204-01-005 05 Cullimore Hall, Room 104	ND	ND	ND	ND	NA
210204-01-006 06 CKB, 3 <sup>rd</sup> Floor Lounge	ND	ND	ND	ND	NA
210204-01-007 07 Tiernan Hall, Room THL 1	ND	ND	ND	ND	NA
210204-01-008 08 LSEC, Ground Floor Sitting Area	ND	ND	ND	ND	NA

*Prestige EnviroMicrobiology, Inc.*

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Conc. (copies of RNA/cm <sup>2</sup> )
210204-01-009 01 Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface to Table 3, Seat 2	ND	ND	ND	ND	NA
210204-01-010 02 Campus Center, 1 <sup>st</sup> Floor Sitting Area, Door Handle to Senate Office (Room 110C), Door Handle	ND	ND	ND	ND	NA
210204-01-011 03 Kupfrian Hall, Room 210, Surface of Row 2, Seat 6	ND	ND	ND	ND	NA
210204-01-012 04 CKB, 3 <sup>rd</sup> Floor Lounge, Surface of Window Bench, Seat 05	ND	ND	ND	ND	NA
210204-01-013 05 CKB, 3 <sup>rd</sup> Floor Lounge, Door Handle to Room 338A	ND	ND	ND	ND	NA

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: 2-4-2021

Submittal date: 2-4-2021

Sample received: 2-4-2021

Samples submitted by: Ross Hernandez

Date analysis completed: February 5, 2021

Prestige Report number: 210204-06

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Conc. (copies of RNA/L)
210204-06-068 09 Cypress Hall, Lobby	ND	ND	ND	ND	NA
210204-06-069 10 Honors College Hall, Lobby	ND	ND	ND	ND	NA
210204-06-070 11 Laurel Hall, Vestibule	ND	ND	ND	ND	NA
210204-06-071 12 Laurel (Ext) Hall, 1 <sup>st</sup> Floor Hallway, near the elevator	ND	ND	ND	ND	NA

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Conc. (copies of RNA/cm <sup>2</sup> )
210204-06-072 06 Laurel Hall, 1 <sup>st</sup> Floor Door Handle to Elevators, Lobby Side	ND	ND	ND	ND	NA
210204-06-073 07 Laurel Hall, 1 <sup>st</sup> Floor Door Handle to Vestibule, Lobby Side	ND	ND	ND	ND	NA
210204-06-074 08 Laurel Hall, 1 <sup>st</sup> Floor Kitchen, Microwave Handle	ND	ND	ND	ND	NA

Markers



210204-06-075 09 Laurel Hall, 1 <sup>st</sup> Floor Kitchen, Freezer Handle	ND	ND	ND	ND	NA
210204-06-076 10 Honors College Hall, 1 <sup>st</sup> Floor Kitchen, Faucet Handle	ND	ND	ND	ND	NA
210204-06-077 11 Honors College Hall, Elevator Lobby 111, Door to Stairwell, Lobby Side	ND	ND	ND	ND	NA
210204-06-078 12 Honors College Hall, 3 <sup>rd</sup> Floor Door Push Bar to Stairs, Lobby Side, Next to "Up" Elevator	ND	ND	ND	ND	NA
210204-06-079 13 Honors College Hall, Lounge 418, Microwave Handle	ND	ND	ND	ND	NA
210204-06-080 14 Honors College Hall, Lounge 418, Faucet Handle, Hot Knob	ND	ND	ND	ND	NA
210204-06-081 15 Honors College Hall, Lounge 618, Microwave Handle	ND	ND	ND	ND	NA
210204-06-082 16 Honors College Hall, Lounge 618, Faucet Handle, Hot Knob	ND	ND	ND	ND	NA
210204-06-083 17 Honors College Hall, 1 <sup>st</sup> Floor Door Handle to Elevator Lobby 105, Elevator Side	ND	ND	ND	ND	NA
210204-06-084 18 Honors College Hall, 1 <sup>st</sup> Floor "Down" Elevator Call Button, Up	ND	ND	ND	ND	NA
210204-06-085 19 Honors College Hall, 2 <sup>nd</sup> Floor "Down" Elevator Call Button, Down	ND	ND	ND	ND	NA

210204-06-086 20 Honors College Hall, 3 <sup>rd</sup> Floor Door Push Bar to Stairs, Lobby Side, Next to “Down” Elevator	ND	ND	ND	ND	NA
210204-06-087 21 Honors College Hall, Lounge 337, Faucet Handle, Hot Knob	ND	ND	ND	ND	NA
210204-06-088 22 Honors College Hall, 4 <sup>th</sup> Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	NA
210204-06-089 23 Honors College Hall, 4 <sup>th</sup> Floor Door Push Bar to Stairs, Lobby Side, Next to “Down” Elevator	ND	ND	ND	ND	NA
210204-06-090 24 Honors College Hall, Lounge 437, Microwave Handle	ND	ND	ND	ND	NA
210204-06-091 25 Honors College Hall, Lounge 437, Faucet Handle, Hot Knob	ND	ND	ND	ND	NA
210204-06-092 26 Honors College Hall, Lounge 537, Microwave Handle	ND	ND	ND	ND	NA
210204-06-093 27 Honors College Hall, Lounge 537, Faucet Handle, Hot Knob	ND	ND	ND	ND	NA
210204-06-094 28 Honors College Hall, 6 <sup>th</sup> Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	NA
210204-06-095 29 Cypress Hall, 1 <sup>st</sup> Floor Lobby, Door Handle to Elevators, Lobby Side	ND	ND	ND	ND	NA
210204-06-096 30 Cypress Hall, 1 <sup>st</sup> Floor Lobby, Door Push Bar to Vestibule, Lobby Side	ND	ND	ND	ND	NA

210204-06-097 31 Cypress Hall, 2 <sup>nd</sup> Floor Elevator Call Button, Down	ND	ND	ND	ND	NA
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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.  
<https://doi.org/10.1016/j.scitotenv.2020.140207>