



# POST-DISINFECTION CORONAVIRUS-19 FIELD VERIFICATION TESTING REPORT

---

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

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

SCOPE OF WORK: COVID-19 Verification Testing

AREAS TESTED: Campus-Wide

CLIENT CONTACT(S): Mitchell Gayer

SITE EVALUATION CONDUCTED: 5/11 & 5/12/2021

DATE OF REPORT: 5/14/2021

REPORT PREPARED BY: Ross Hernandez

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

{Omega Project#: 21-1040}

## Table of Contents

<b><u>Executive Summary</u></b>	3
<b><u>Project Overview</u></b>	3
<ul style="list-style-type: none"><li>• Project Overview/Scope of Work</li><li>• Bio-Load and COVID-19 Field Sampling &amp; Analysis Protocol</li></ul>	
<b><u>ATP Direct Read: Bioluminescence</u></b>	4
<ul style="list-style-type: none"><li>• ATP Direct Read Meter Data</li><li>• Data Interpretation</li><li>• Field Notes</li></ul>	
<b><u>COVID-19 PCR DNA Sequencing</u></b>	13
<ul style="list-style-type: none"><li>• SARS-CoV-2 PCR DNA Swab Sample Results</li><li>• SARS-CoV-2 PCR DNA Air Sample Results</li><li>• Data Interpretation</li></ul>	
<b><u>Attachments</u></b>	16
<ul style="list-style-type: none"><li>• Laboratory analysis reports with chain-of-custody</li></ul>	

Executive Summary:

On 5/11/2021 and 5/12/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

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

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"><li>• 48-out-of-233 representative ATP surface samples collected reported elevated ATP levels (20.6% of samples). 31-out-of-the 48 samples with elevated ATP levels were pre-cleaning samples, meaning they were collected before the area was cleaned by NJIT building services.</li><li>• Omega Environmental Services collected SARS-CoV-2 surface samples on 15-out-of-the 17 representative surfaces with elevated ATP levels.</li></ul>
SARS-CoV-2 PCR Samples	<ul style="list-style-type: none"><li>• Laboratory results indicate all the SARS-CoV-2 air and surface samples collected on 5/11/21 and 5/12/21 were negative.</li></ul>

### **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  $\mu\text{m}$  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	05/11/2021 09:24 AM	GITC	1100	Surface of Row 1, Seat 1	195	105	211	
2	05/11/2021 09:25 AM	GITC	1100	Surface of Row 1, Seat 4*	269	105	211	Pre-cleaning sample.
3	05/11/2021 09:26 AM	GITC	1100	Surface of Row 1, Seat 7	198	105	211	
4	05/11/2021 09:27 AM	GITC	1100	Surface of Row 1, Seat 10*	276	105	211	Pre-cleaning sample.
5	05/11/2021 09:28 AM	GITC	1100	Surface of Row 1, Seat 13	158	105	211	
6	05/11/2021 09:28 AM	GITC	1100	Surface of Row 3, Seat 2	89	105	211	
7	05/11/2021 09:29 AM	GITC	1100	Surface of Row 3, Seat 5*	284	105	211	Pre-cleaning sample.
8	05/11/2021 09:30 AM	GITC	1100	Surface of Row 3, Seat 7*	251	105	211	Pre-cleaning sample.
9	05/11/2021 09:30 AM	GITC	1100	Surface of Row 5, Seat 1	156	105	211	
10	05/11/2021 09:31 AM	GITC	1100	Surface of Row 5, Seat 5*	229	105	211	Pre-cleaning sample.
11	05/11/2021 09:32 AM	GITC	1100	Surface of Row 5, Seat 8	157	105	211	
12	05/11/2021 09:32 AM	GITC	1100	Surface of Row 5, Seat 11	140	105	211	
13	05/11/2021 09:33 AM	GITC	1100	Surface of Row 5, Seat 14	186	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
14	05/11/2021 09:33 AM	GITC	1100	Surface of Row 7, Seat 2*	215	105	211	Pre-cleaning sample.
15	05/11/2021 09:34 AM	GITC	1100	Surface of Row 7, Seat 4*	433	105	211	Pre-cleaning sample.
16	05/11/2021 09:34 AM	GITC	1100	Surface of Row 7, Seat 7*	539	105	211	Pre-cleaning sample.
17	05/11/2021 09:35 AM	GITC	1100	Surface of Row 7, Seat 11*	443	105	211	Pre-cleaning sample.
18	05/11/2021 09:35 AM	GITC	1100	Surface of Row 7, Seat 13	195	105	211	
19	05/11/2021 09:43 AM	GITC	1100	Surface of Row 9, Seat 2	198	105	211	
20	05/11/2021 09:45 AM	GITC	1100	Surface of Row 9, Seat 5	203	105	211	
21	05/11/2021 09:45 AM	GITC	1100	Surface of Row 9, Seat 6	81	105	211	
22	05/11/2021 09:46 AM	GITC	1100	Surface of Row 9, Seat 9	175	105	211	
23	05/11/2021 09:46 AM	GITC	1100	Surface of Row 9, Seat 10	60	105	211	
24	05/11/2021 09:47 AM	GITC	1100	Surface of Row 1, Seat 4	14	105	211	Test No. 02 post-cleaning sample.
25	05/11/2021 09:48 AM	GITC	1100	Surface of Row 1, Seat 10	12	105	211	Test No. 04 post-cleaning sample.
26	05/11/2021 09:48 AM	GITC	1100	Surface of Row 3, Seat 5	23	105	211	Test No. 07 post-cleaning sample.
27	05/11/2021 09:49 AM	GITC	1100	Surface of Row 3, Seat 7	33	105	211	Test No. 08 post-cleaning sample.
28	05/11/2021 09:50 AM	GITC	1100	Surface of Row 5, Seat 5	11	105	211	Test No. 10 post-cleaning sample.
29	05/11/2021 09:51 AM	GITC	1100	Surface of Row 7, Seat 2	11	105	211	Test No. 14 post-cleaning sample.
30	05/11/2021 09:52 AM	GITC	1100	Surface of Row 7, Seat 4	87	105	211	Test No. 15 post-cleaning sample.
31	05/11/2021 09:52 AM	GITC	1100	Surface of Row 7, Seat 7	31	105	211	Test No. 16 post-cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
32	05/11/2021 09:53 AM	GITC	1100	Surface of Row 7, Seat 11	43	105	211	Test No. 17 post-cleaning sample.
33	05/11/2021 10:06 AM	Cullimore Hall	106	Surface of Row 1, Seat 1	4	105	211	
34	05/11/2021 10:06 AM	Cullimore Hall	106	Surface of Row 1, Seat 4	2	105	211	
35	05/11/2021 10:07 AM	Cullimore Hall	106	Surface of Row 1, Seat 7	1	105	211	
36	05/11/2021 10:08 AM	Cullimore Hall	106	Surface of Row 1, Seat 9	1	105	211	
37	05/11/2021 10:08 AM	Cullimore Hall	106	Surface of Row 3, Seat 3	2	105	211	
38	05/11/2021 10:09 AM	Cullimore Hall	106	Surface of Row 3, Seat 6	0	105	211	
39	05/11/2021 10:09 AM	Cullimore Hall	106	Surface of Row 3, Seat 7	1	105	211	
40	05/11/2021 10:10 AM	Cullimore Hall	106	Surface of Row 3, Seat 9	1	105	211	
41	05/11/2021 10:10 AM	Cullimore Hall	106	Surface of Row 5, Seat 3	0	105	211	
42	05/11/2021 10:11 AM	Cullimore Hall	106	Surface of Row 5, Seat 4	0	105	211	
43	05/11/2021 10:11 AM	Cullimore Hall	106	Surface of Row 5, Seat 6	0	105	211	
44	05/11/2021 10:12 AM	Cullimore Hall	106	Surface of Row 7, Seat 2	17	105	211	
45	05/11/2021 10:12 AM	Cullimore Hall	106	Surface of Row 7, Seat 4	4	105	211	
46	05/11/2021 10:13 AM	Cullimore Hall	106	Surface of Row 7, Seat 5	0	105	211	
47	05/11/2021 10:13 AM	Cullimore Hall	106	Surface of Row 7, Seat 7	0	105	211	
48	05/11/2021 10:14 AM	Cullimore Hall	106	Surface of Row 9, Seat 1	2	105	211	
49	05/11/2021 10:14 AM	Cullimore Hall	106	Surface of Row 9, Seat 5	5	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
50	05/11/2021 10:15 AM	Cullimore Hall	106	Surface of Row 9, Seat 7	4	105	211	
51	05/11/2021 10:15 AM	Cullimore Hall	106	Surface of Row 9, Seat 9	1	105	211	
52	05/11/2021 10:26 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Amazon Locker, Touch Screen	112	105	211	
53	05/11/2021 10:26 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Drink Vending Machine, Keypad	128	105	211	
54	05/11/2021 10:27 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen	78	105	211	
55	05/11/2021 10:27 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of ATM, Touch Screen	76	105	211	
56	05/11/2021 10:28 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 1	178	105	211	
57	05/11/2021 10:28 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 2	118	105	211	
58	05/11/2021 10:29 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 3, Seat 2*	414	105	211	SARS-CoV-2 sample collected.
59	05/11/2021 10:29 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 3, Seat 4*	381	105	211	SARS-CoV-2 sample collected.
60	05/11/2021 10:30 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 5, Seat 1*	265	105	211	SARS-CoV-2 sample collected.
61	05/11/2021 10:30 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 5, Seat 3*	229	105	211	SARS-CoV-2 sample collected.
62	05/11/2021 10:31 AM	Campus Center	1 <sup>st</sup> Floor Sitting Area	Surface of Table 7, Seat 1	162	105	211	



Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
63	05/11/2021 10:47 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 1	75	105	211	
64	05/11/2021 10:47 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 3	65	105	211	
65	05/11/2021 10:47 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 5*	241	105	211	Pre-cleaning sample.
66	05/11/2021 10:48 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 7	98	105	211	
67	05/11/2021 10:49 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 2, Seat 1*	441	105	211	Pre-cleaning sample.
68	05/11/2021 10:49 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 2, Seat 3	190	105	211	
69	05/11/2021 10:50 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 3, Seat 2*	378	105	211	Pre-cleaning sample.
70	05/11/2021 10:50 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 3, Seat 4	49	105	211	
71	05/11/2021 10:51 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 1*	883	105	211	Pre-cleaning sample.
72	05/11/2021 10:51 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 3*	617	105	211	Pre-cleaning sample.
73	05/11/2021 10:52 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 5, Seat 2	55	105	211	
74	05/11/2021 10:52 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 5, Seat 4	151	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
75	05/11/2021 10:52 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 6, Seat 2	100	105	211	
76	05/11/2021 10:53 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 6, Seat 4	49	105	211	
77	05/11/2021 10:53 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 7, Seat 1*	803	105	211	Pre-cleaning sample.
78	05/11/2021 10:54 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 7, Seat 3	155	105	211	
79	05/11/2021 11:01 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 1, Seat 5	41	105	211	Test No. 65 post-cleaning sample.
80	05/11/2021 11:02 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 2, Seat 1	24	105	211	Test No. 67 post-cleaning sample.
81	05/11/2021 11:02 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 3, Seat 2	22	105	211	Test No. 69 post-cleaning sample.
82	05/11/2021 11:03 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 1	199	105	211	Test No. 71 post-cleaning sample.
83	05/11/2021 11:03 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 4, Seat 3	55	105	211	Test No. 72 post-cleaning sample.
84	05/11/2021 11:04 AM	Central King Building (CKB)	Tutoring Center	Surface of Table 7, Seat 1	64	105	211	Test No. 77 post-cleaning sample.
85	05/11/2021 11:15 AM	Kupfrian Hall	118	Surface of Row 1, Seat 1	22	105	211	
86	05/11/2021 11:16 AM	Kupfrian Hall	118	Surface of Row 1, Seat 2	73	105	211	
87	05/11/2021 11:16 AM	Kupfrian Hall	118	Surface of Row 1, Seat 5	127	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
88	05/11/2021 11:17 AM	Kupfrian Hall	118	Surface of Row 1, Seat 7*	777	105	211	Pre-cleaning sample.
89	05/11/2021 11:17 AM	Kupfrian Hall	118	Surface of Row 1, Seat 10*	805	105	211	Pre-cleaning sample.
90	05/11/2021 11:18 AM	Kupfrian Hall	118	Surface of Row 3, Seat 2	76	105	211	
91	05/11/2021 11:18 AM	Kupfrian Hall	118	Surface of Row 3, Seat 7*	1,558	105	211	Pre-cleaning sample.
92	05/11/2021 11:19 AM	Kupfrian Hall	118	Surface of Row 3, Seat 10*	658	105	211	Pre-cleaning sample.
93	05/11/2021 11:20 AM	Kupfrian Hall	118	Surface of Row 3, Seat 13*	492	105	211	Pre-cleaning sample.
94	05/11/2021 11:20 AM	Kupfrian Hall	118	Surface of Row 3, Seat 17*	1,340	105	211	Pre-cleaning sample.
95	05/11/2021 11:21 AM	Kupfrian Hall	118	Surface of Row 3, Seat 20*	1,397	105	211	Pre-cleaning sample.
96	05/11/2021 11:22 AM	Kupfrian Hall	118	Surface of Row 5, Seat 4*	2,446	105	211	Pre-cleaning sample.
97	05/11/2021 11:23 AM	Kupfrian Hall	118	Surface of Row 5, Seat 8*	1,436	105	211	Pre-cleaning sample.
98	05/11/2021 11:23 AM	Kupfrian Hall	118	Surface of Row 5, Seat 10*	1,772	105	211	Pre-cleaning sample.
99	05/11/2021 11:24 AM	Kupfrian Hall	118	Surface of Row 5, Seat 13*	1,930	105	211	Pre-cleaning sample.
100	05/11/2021 11:24 AM	Kupfrian Hall	118	Surface of Row 5, Seat 16*	1,054	105	211	Pre-cleaning sample.
101	05/11/2021 11:28 AM	Kupfrian Hall	118	Surface of Row 1, Seat 7	62	105	211	Test No. 88 post-cleaning sample.
102	05/11/2021 11:28 AM	Kupfrian Hall	118	Surface of Row 1, Seat 10	71	105	211	Test No. 89 post-cleaning sample.
103	05/11/2021 11:31 AM	Kupfrian Hall	118	Surface of Row 3, Seat 7	84	105	211	Test No. 91 post-cleaning sample.
104	05/11/2021 11:31 AM	Kupfrian Hall	118	Surface of Row 3, Seat 10	199	105	211	Test No. 92 post-cleaning sample.
105	05/11/2021 11:32 AM	Kupfrian Hall	118	Surface of Row 3, Seat 13	59	105	211	Test No. 93 post-cleaning sample.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
106	05/11/2021 11:33 AM	Kupfrian Hall	118	Surface of Row 3, Seat 17*	225	105	211	Test No. 94 post-cleaning sample. SARS-CoV-2 sample collected.
107	05/11/2021 11:34 AM	Kupfrian Hall	118	Surface of Row 3, Seat 20	117	105	211	Test No. 95 post-cleaning sample.
108	05/11/2021 11:40 AM	Kupfrian Hall	118	Surface of Row 5, Seat 4	39	105	211	Test No. 96 post-cleaning sample.
109	05/11/2021 11:41 AM	Kupfrian Hall	118	Surface of Row 5, Seat 8	26	105	211	Test No. 97 post-cleaning sample.
110	05/11/2021 11:41 AM	Kupfrian Hall	118	Surface of Row 5, Seat 10	41	105	211	Test No. 98 post-cleaning sample.
111	05/11/2021 11:42 AM	Kupfrian Hall	118	Surface of Row 5, Seat 13	16	105	211	Test No. 99 post-cleaning sample.
112	05/11/2021 11:43 AM	Kupfrian Hall	118	Surface of Row 5, Seat 16	20	105	211	Test No. 100 post-cleaning sample.
113	05/11/2021 01:08 PM	Weston Hall	556	Surface of Table 1	207	105	211	
114	05/11/2021 01:09 PM	Weston Hall	556	Surface of Table 2*	928	105	211	Pre-cleaning sample.
115	05/11/2021 01:10 PM	Weston Hall	556	Surface of Table 3*	791	105	211	Pre-cleaning sample.
116	05/11/2021 01:11 PM	Weston Hall	556	Surface of Table 4*	2,248	105	211	Pre-cleaning sample.
117	05/11/2021 01:11 PM	Weston Hall	556	Surface of Table 5, Seat 1*	1,601	105	211	Pre-cleaning sample.
118	05/11/2021 01:26 PM	Weston Hall	556	Surface of Table 5, Seat 4	84	105	211	
119	05/11/2021 01:27 PM	Weston Hall	556	Surface of Table 5, Seat 5	92	105	211	
120	05/11/2021 01:27 PM	Weston Hall	556	Surface of Table 6*	285	105	211	SARS-CoV-2 sample collected.
121	05/11/2021 01:28 PM	Weston Hall	556	Surface of Table 7	52	105	211	
122	05/11/2021 01:29 PM	Weston Hall	556	Surface of Table 8	89	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
123	05/11/2021 01:29 PM	Weston Hall	556	Surface of Table 9	26	105	211	
124	05/11/2021 01:29 PM	Weston Hall	556	Surface of Table 10	57	105	211	
125	05/11/2021 01:30 PM	Weston Hall	556	Surface of Table 11	22	105	211	
126	05/11/2021 01:30 PM	Weston Hall	556	Surface of Table 12	104	105	211	
127	05/11/2021 01:31 PM	Weston Hall	556	Surface of Table 2	63	105	211	Test No. 114 post-cleaning sample.
128	05/11/2021 01:31 PM	Weston Hall	556	Surface of Table 3	105	105	211	Test No. 115 post-cleaning sample.
129	05/11/2021 01:32 PM	Weston Hall	556	Surface of Table 4*	508	105	211	Test No. 116 post-cleaning sample. SARS-CoV-2 sample collected.
130	05/11/2021 01:32 PM	Weston Hall	556	Surface of Table 5, Seat 1	111	105	211	Test No. 117 post-cleaning sample.
131	05/11/2021 01:50 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 3	2	105	211	
132	05/11/2021 01:50 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 6	3	105	211	
133	05/11/2021 01:51 PM	Tiernan Hall	THL 1	Surface of Row 1, Seat 8	77	105	211	
134	05/11/2021 01:52 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 3	0	105	211	
135	05/11/2021 01:52 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 6	1	105	211	
136	05/11/2021 01:52 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 9	1	105	211	
137	05/11/2021 01:53 PM	Tiernan Hall	THL 1	Surface of Row 3, Seat 12	0	105	211	
138	05/11/2021 01:53 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 1	0	105	211	
139	05/11/2021 01:54 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 5	2	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
140	05/11/2021 01:54 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 9	0	105	211	
141	05/11/2021 01:55 PM	Tiernan Hall	THL 1	Surface of Row 5, Seat 13	3	105	211	
142	05/11/2021 01:55 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 3	1	105	211	
143	05/11/2021 01:55 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 7	0	105	211	
144	05/11/2021 01:56 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 10	0	105	211	
145	05/11/2021 01:56 PM	Tiernan Hall	THL 1	Surface of Row 7, Seat 13	3	105	211	
146	05/11/2021 01:57 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 2	0	105	211	
147	05/11/2021 01:57 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 5	0	105	211	
148	05/11/2021 01:57 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 9	1	105	211	
149	05/11/2021 01:58 PM	Tiernan Hall	THL 1	Surface of Row 9, Seat 14	5	105	211	
150	05/11/2021 01:58 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 1	1	105	211	
151	05/11/2021 01:58 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 6	1	105	211	
152	05/11/2021 01:59 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 10	0	105	211	
153	05/11/2021 01:59 PM	Tiernan Hall	THL 1	Surface of Row 11, Seat 14	0	105	211	
154	05/12/2021 08:43 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 1	18	105	211	

155	05/12/2021 08:44 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 2	45	105	211	
156	05/12/2021 08:44 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 3	87	105	211	
157	05/12/2021 08:45 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 4	25	105	211	
158	05/12/2021 08:45 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 5	95	105	211	
159	05/12/2021 08:46 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 6	60	105	211	
160	05/12/2021 08:46 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 7	66	105	211	
161	05/12/2021 08:46 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 8	45	105	211	
162	05/12/2021 08:47 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 9	35	105	211	

163	05/12/2021 08:47 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 10	16	105	211	
164	05/12/2021 08:48 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 11	76	105	211	
165	05/12/2021 08:48 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 12	18	105	211	
166	05/12/2021 08:49 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 13	73	105	211	
167	05/12/2021 08:49 AM	Life Sciences & Engineering Center (LSEC)	Ground Floor Sitting Area (102)	Surface of Table 14	7	105	211	
168	05/12/2021 09:02 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 1	21	105	211	
169	05/12/2021 09:03 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 4	32	105	211	
170	05/12/2021 09:03 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 1, Seat 8	74	105	211	
171	05/12/2021 09:03 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 2	22	105	211	
172	05/12/2021 09:04 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 6	16	105	211	



173	05/12/2021 09:04 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 3, Seat 12	18	105	211	
174	05/12/2021 09:05 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 2	16	105	211	
175	05/12/2021 09:05 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 5	12	105	211	
176	05/12/2021 09:06 AM	Mechanical Engineering Center (MEC)	224	Surface of Row 5, Seat 9	6	105	211	
177	05/12/2021 09:24 AM	Cypress Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator Call Button, Up	65	105	211	
178	05/12/2021 09:25 AM	Cypress Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Elevator Call Button, Down	103	105	211	
179	05/12/2021 09:25 AM	Cypress Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator Call Button, Down	164	105	211	
180	05/12/2021 09:25 AM	Cypress Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator Call Button, Down	130	105	211	
181	05/12/2021 09:26 AM	Cypress Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator Call Button, Down	122	105	211	
182	05/12/2021 09:26 AM	Cypress Residential Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor Elevator Call Button, Down	58	105	211	
183	05/12/2021 09:27 AM	Cypress Residential Hall	7 <sup>th</sup> Floor Hallway	7 <sup>th</sup> Floor Elevator Call Button, Down	31	105	211	
184	05/12/2021 09:27 AM	Cypress Residential Hall	8 <sup>th</sup> Floor Hallway	8 <sup>th</sup> Floor Elevator Call Button, Down*	247	105	211	SARS-CoV-2 sample collected.
185	05/12/2021 09:40 AM	Redwood Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator 1 Call Button, Down	13	105	211	

186	05/12/2021 09:40 AM	Redwood Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator 2 Call Button, Down	33	105	211	
187	05/12/2021 09:41 AM	Redwood Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator 1 Call Button, Down	101	105	211	
188	05/12/2021 09:41 AM	Redwood Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator 2 Call Button, Down	10	105	211	
189	05/12/2021 09:42 AM	Redwood Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator 1 Call Button, Down	18	105	211	
190	05/12/2021 09:42 AM	Redwood Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator 2 Call Button, Down	5	105	211	
191	05/12/2021 09:43 AM	Redwood Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator 1 Call Button, Down	35	105	211	
192	05/12/2021 09:43 AM	Redwood Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator 2 Call Button, Down	13	105	211	
193	05/12/2021 09:56 AM	Honors College Residential Hall	105	1 <sup>st</sup> Floor "Down" Elevator Call Button, Up	64	105	211	
194	05/12/2021 09:56 AM	Honors College Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor "Down" Elevator Call Button, Down	117	105	211	Elevator Lobby Room 105 side of the building.
195	05/12/2021 09:57 AM	Honors College Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor "Down" Elevator Call Button, Down*	379	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV-2 sample collected.
196	05/12/2021 09:58 AM	Honors College Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor "Down" Elevator Call Button, Down*	329	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV-2 sample collected.
197	05/12/2021 09:58 AM	Honors College Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor "Down" Elevator Call Button, Down	157	105	211	Elevator Lobby Room 105 side of the building.

198	05/12/2021 09:58 AM	Honors College Residential Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor "Down" Elevator Call Button, Down*	301	105	211	Elevator Lobby Room 105 side of the building. SARS- CoV-2 sample collected.
199	05/12/2021 10:21 AM	Laurel Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator Call Button, Up	181	105	211	
200	05/12/2021 10:22 AM	Laurel Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Elevator Call Button, Down	194	105	211	
201	05/12/2021 10:22 AM	Laurel Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator Call Button, Down*	223	105	211	SARS-CoV-2 sample collected.
202	05/12/2021 10:23 AM	Laurel Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator Call Button, Down	107	105	211	
203	05/12/2021 10:23 AM	Laurel Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator Call Button, Down	89	105	211	
204	05/12/2021 10:23 AM	Laurel (Extension) Residential Hall	1 <sup>st</sup> Floor Hallway	1 <sup>st</sup> Floor Elevator Call Button, Up*	464	105	211	SARS-CoV-2 sample collected.
205	05/12/2021 10:24 AM	Laurel (Extension) Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Elevator Call Button, Down	53	105	211	
206	05/12/2021 10:24 AM	Laurel (Extension) Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator Call Button, Down	110	105	211	
207	05/12/2021 10:25 AM	Laurel (Extension) Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator Call Button, Down	91	105	211	
208	05/12/2021 10:25 AM	Laurel (Extension) Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator Call Button, Down	17	105	211	

209	05/12/2021 10:25 AM	Laurel (Extension) Residential Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor Elevator Call Button, Down	50	105	211	
210	05/12/2021 10:26 AM	Laurel (Extension) Residential Hall	7 <sup>th</sup> Floor Hallway	7 <sup>th</sup> Floor Elevator Call Button, Down	40	105	211	
211	05/12/2021 11:12 AM	Oak Residential Hall	2 <sup>nd</sup> Floor Hallway	2 <sup>nd</sup> Floor Elevator Call Button, Down	39	105	211	
212	05/12/2021 11:12 AM	Oak Residential Hall	3 <sup>rd</sup> Floor Hallway	3 <sup>rd</sup> Floor Elevator Call Button, Down	97	105	211	
213	05/12/2021 11:13 AM	Oak Residential Hall	4 <sup>th</sup> Floor Hallway	4 <sup>th</sup> Floor Elevator Call Button, Down	49	105	211	
214	05/12/2021 11:13 AM	Oak Residential Hall	5 <sup>th</sup> Floor Hallway	5 <sup>th</sup> Floor Elevator Call Button, Down	64	105	211	
215	05/12/2021 11:14 AM	Oak Residential Hall	6 <sup>th</sup> Floor Hallway	6 <sup>th</sup> Floor Elevator Call Button, Down	84	105	211	
216	05/12/2021 11:14 AM	Oak Residential Hall	7 <sup>th</sup> Floor Hallway	7 <sup>th</sup> Floor Elevator Call Button, Down	163	105	211	
217	05/12/2021 11:15 AM	Oak Residential Hall	8 <sup>th</sup> Floor Hallway	8 <sup>th</sup> Floor Elevator Call Button, Down	30	105	211	
218	05/12/2021 11:27 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 1, Seat 4	206	105	211	
219	05/12/2021 11:28 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 1, Seat 6*	238	105	211	SARS-CoV-2 sample collected.
220	05/12/2021 11:28 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 1	57	105	211	

221	05/12/2021 11:29 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 3	32	105	211	
222	05/12/2021 11:29 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 4	70	105	211	
223	05/12/2021 11:30 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 6	204	105	211	
224	05/12/2021 11:30 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 7*	500	105	211	SARS-CoV-2 sample collected.
225	05/12/2021 11:31 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 2, Seat 9*	408	105	211	SARS-CoV-2 sample collected.
226	05/12/2021 11:31 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 1	38	105	211	
227	05/12/2021 11:31 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 3	100	105	211	
228	05/12/2021 11:32 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 4	82	105	211	
229	05/12/2021 11:32 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 3, Seat 6	75	105	211	
230	05/12/2021 11:33 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 4, Seat 1	19	105	211	
231	05/12/2021 11:33 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 4, Seat 3	113	105	211	
232	05/12/2021 11:34 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 5, Seat 7	198	105	211	
233	05/12/2021 11:34 AM	Faculty Memorial Hall (FMH)	203	Surface of Row 5, Seat 9*	345	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:**

- 48-out-of-233 representative ATP surface samples collected reported elevated ATP levels (20.6% of samples). 31-out-of the 48 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services.

**Surface SARS-CoV-2 Swab Data: 5/11 – 5/12/2021**

<b>Sample No.</b>	<b>SARS-CoV-2 Swab Sample Locations</b>	<b>Result (Positive/Negative)</b>
1	Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface Table 3	Negative
2	Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface of Table 5	Negative
3	Kupfrian Hall, Room 118, Surface of Row 3, Seat 17	Negative
4	Weston Hall, Studio 556, Surface of Table 6	Negative
5	Weston Hall, Studio 556, Surface of Table 4	Negative
6	Cypress Residential Hall, 8 <sup>th</sup> Floor Elevator Call Button, Down	Negative
7	Honors College Residential Hall, 3 <sup>rd</sup> Floor “Down” Elevator Call Button, Down	Negative
8	Honors College Residential Hall, 4 <sup>th</sup> Floor “Down” Elevator Call Button, Down	Negative
9	Honors College Residential Hall, 6 <sup>th</sup> Floor “Down” Elevator Call Button, Down	Negative
10	Laurel Residential Hall, 3 <sup>rd</sup> Floor Elevator Call Button, Down	Negative
11	Laurel (Extension) Residential Hall, 1 <sup>st</sup> Floor Elevator Call Button, Down	Negative
12	Faculty Memorial Hall (FMH) Room 203, Surface of Row 1, Seat 6	Negative
13	Faculty Memorial Hall (FMH) Room 203, Surface of Row 2, Seat 7	Negative
14	Faculty Memorial Hall (FMH) Room 203, Surface of Row 2, Seat 9	Negative
15	Faculty Memorial Hall (FMH) Room 203, Surface of Row 5, Seat 9	Negative

**SARS-CoV-2 Air Sample Data: 5/11 – 5/12/2021**

<b>Sample No.</b>	<b>SARS-CoV-2 Air Sample Locations</b>	<b>Result (Positive/Negative)</b>
1	Central King Building (CKB), Tutoring Center	Negative
2	Cullimore Hall, Room 106	Negative
3	Mechanical Engineering Center (MEC), Room 224	Negative
4	Guttenberg Information Technologies Center (GITC), Room 1100	Negative
5	Campus Center, 1 <sup>st</sup> Floor Sitting Area	Negative
6	Kupfrian Hall, Basement Sitting Area	Negative
7	Tiernan Hall, THL 1	Negative
8	Weston Hall, Studio 556	Negative
9	Laurel Residential Hall, Vestibule	Negative
10	Oak Residential Hall, Vestibule	Negative
11	Honors College Residential Hall, Elevator Lobby Room 105	Negative
12	Cypress Residential Hall, 1 <sup>st</sup> Floor Lobby	Negative
13	Wellness Entertainment Center (WEC), 2 <sup>nd</sup> Floor Fitness Center	Negative
14	Redwood Residential Hall, 1 <sup>st</sup> Floor Lobby	Negative
15	Life Sciences & Engineering Center (LSEC), Ground Floor Sitting Area (Room 102)	Negative
16	Faculty Memorial Hall (FMH), Room 314	Negative

**Data Interpretation:**

- Laboratory results indicate all the SARS-CoV-2 air samples collected on 5/11 and 5/12/2021 were negative.



Attachments:

*Laboratory analysis reports with chain-of-custody*

*Prestige EnviroMicrobiology, Inc.*

**Analytical Test Report**

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

Client Project/Name: 21-1040

Sample date: 5-11-2021

Submittal date: 5-11-2021

Sample received: 5-12-2021

Samples submitted by: Ross

Hernandez Date analysis

completed: May 13, 2021

Prestige Report number: 210512-03

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 <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Presence/ Non- Detected
210512-03-013 01 CKB, Tutoring Center	ND	ND	ND	ND	Non-Detected
210512-03-014 02 Cullimore, Hall, Room 106	ND	ND	ND	ND	Non-Detected
210512-03-015 03 MEC, Room 224	ND	ND	ND	ND	Non-Detected
210512-03-016 04 GITC, Room 1100	ND	ND	ND	ND	Non-Detected
210512-03-017 05 Campus Center, 1 <sup>st</sup> Floor Sitting Area	ND	ND	ND	ND	Non-Detected
210512-03-018 06 Kupfrian Hall, Basement Sitting Area	ND	ND	ND	ND	Non-Detected
210512-03-019 07 Tiernan Hall, Room THL 1	ND	ND	ND	ND	Non-Detected
210512-03-020 08 Weston Hall, Room 556	ND	ND	ND	ND	Non-Detected

*Prestige EnviroMicrobiology, Inc.*

RT-PCR 2019-nCoV:

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Presence/ Non- Detected
210512-03-021 01 Campus Center, 1 <sup>st</sup> Fl Sitting Area, Surface of Table 3	ND	ND	ND	ND	Non-Detected
210512-03-022 02 Campus Center, 1 <sup>st</sup> Floor Sitting Area, Surface Table 5	ND	ND	ND	ND	Non-Detected
210512-03-023 03 Kupfrian Hall, Room 118, Surface of Row 3, Seat 17	ND	ND	ND	ND	Non-Detected
210512-03-024 04 Weston Hall, Room 556, Surface of Table 6	ND	ND	ND	ND	Non-Detected
210512-03-025 05 Weston Hall, Room 556, Surface of Table 4	ND	ND	ND	ND	Non-Detected

Report approved:



Theresa Lehman, MPH, Lab Director

Technical Manager: \_\_\_\_\_



Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
2. The primers and probes in 2019-nCoV CDC EUA Kit are designed for the detection of the two SARS-CoV-2 genes that encode for the N1 and N2 proteins. The kit is manufactured and supplied by Integrated DNA Technologies and approved by the U.S. Centers for Disease Control and Prevention (CDC). Three controls, two

positive controls for N proteins and one internal control for the RNA extraction process, are simultaneously run with the samples.

3. Cycle Threshold Value refers to the number of cycles required for the fluorescent signal to cross the detectable threshold in Reverse Transcriptase Polymerase Chain Reaction (RT-PCR); a lower cycle threshold value indicates a higher viral load. 4. ND = not detected, no genetic marker is detected within 40 PCR cycles. NA = not applicable. The detection limit is 10 copies/reaction.

5. Sampling reference: Rahmani, A. R., M. Leili, G. Azarian, A. Poormohammadi. 2020. Sampling and detection of corona viruses in air: A mini review. Science of the Total Environment.

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

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

**Analytical Test Report**

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

Client Project/Name: 21-1040

Sample date: 5-12-2021

Submittal date: 5-12-2021

Sample received: 5-13-2021

Samples submitted by: Ross

Hernandez Date analysis

completed: May 14, 2021

Prestige Report number: 210513-02

RT-PCR 2019-nCoV:


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

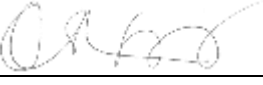
Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Presence/ Non- Detected
210513-02-012 09 Laurel Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210513-02-013 10 Oak Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210513-02-014 11 Honors College Hall, Elevator Lobby Room 105	ND	ND	ND	ND	Non-Detected
210513-02-015 12 Cypress Hall, 1 <sup>st</sup> Floor Lobby	ND	ND	ND	ND	Non-Detected
210513-02-016 13 WEC, 2 <sup>nd</sup> Floor Fitness Center	ND	ND	ND	ND	Non-Detected
210513-02-017 14 Redwood Hall, 1 <sup>st</sup> Floor Lobby	ND	ND	ND	ND	Non-Detected
210513-02-018 15 LSEC, Ground Floor Sitting Area, Room 102	ND	ND	ND	ND	Non-Detected
210513-02-019 16 FMH, Room 203	ND	ND	ND	ND	Non-Detected

RT-PCR 2019-nCoV:

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

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value <sup>3</sup> (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value <sup>3</sup> (N2 Protein)	Presence/ Non- Detected
210513-02-020 06 Cypress Hall, 8 <sup>th</sup> Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210513-02-021 07 Honors College Hall, 3 <sup>rd</sup> Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210513-02-022 08 Honors College Hall, 4 <sup>th</sup> Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210513-02-023 09 Honors College Hall, 6 <sup>th</sup> Floor “Down” Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210513-02-024 10 Laurel Hall, 3 <sup>rd</sup> Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210513-02-025 11 Laurel (Ext) Hall, 1 <sup>st</sup> Floor Elevator Call Button, Up	ND	ND	ND	ND	Non-Detected
210513-02-026 12 FMH, Room 203, Surface of Row 1, Seat 6	ND	ND	ND	ND	Non-Detected
210513-02-027 13 FMH, Room 203, Surface of Row 2, Seat 7	ND	ND	ND	ND	Non-Detected
210513-02-028 14 FMH, Room 203, Surface of Row 2, Seat 9	ND	ND	ND	ND	Non-Detected
210513-02-029 15 FMH, Room 203, Surface of Row 5, Seat 9	ND	ND	ND	ND	Non-Detected

Report approved:   
Theresa Lehman, MPH, Lab Director

Technical Manager:   
Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

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