



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: 9/15-16/2020

DATE OF REPORT: 9/18/2020

REPORT PREPARED BY: Kadeem Hill

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

{Omega Project#: 20-1175}

Table of Contents

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

Executive Summary:

On 9/15/20 and 9/16/20, Omega Environmental Services conducted ATP surface testing and Coronavirus environmental sampling in the Wellness and Events Center, Cullimore Hall, Mechanical Engineering Center, Life Science & Engineering Center, Kupfrian Hall, Houten Library, Naimoli Family Athletic and Recreational Facility, and William S. Guttenberg Information Technologies of the NJIT campus. The purpose of this testing was to document adequate disinfection and cleaning by the NJIT maintenance staff.

Parameter	Results
Adenosine Triphosphate (ATP) Direct Reads: Bioluminescence Meter (Detects Bacteria and Bio-Load)	<ul style="list-style-type: none">•20 out of the 249 samples resulted in elevated ATP levels.• When possible, Omega contacted NJIT Building Services to reclean the surfaces with elevated ATP levels. Retest results indicated acceptable levels of ATP on all recleaned surfaces. In situations where this was not possible due to class or other scheduling conflicts, a COVID-19 surface sample was taken instead.
Coronavirus-19 PCR Swab	<ul style="list-style-type: none">•Laboratory results indicates all the SARS-Cov-2 samples taken on 9/15/20 and 9/16/20 were negative.

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 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 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	Upper	Notes
1	09/15/2020 10:53 AM	Wellness and Events Center (WEC)	Fitness Center	Treadmill 2, Interface	9	105	211	Pre-Cleaning Test
2	09/15/2020 10:54 AM	WEC	Fitness Center	Treadmill 4, Interface*	456	105	211	Pre-Cleaning Test
3	09/15/2020 10:56 AM	WEC	Fitness Center	Treadmill 6 Interface*	254	105	211	Pre-Cleaning Test
4	09/15/2020 10:56 AM	WEC	Fitness Center	Treadmill 8, Interface*	319	105	211	Pre-Cleaning Test
5	09/15/2020 10:58 AM	WEC	Fitness Center	Stairmaster 1, Interface	9	105	211	Pre-Cleaning Test
6	09/15/2020 10:59 AM	WEC	Fitness Center	Stairmaster 2, Interface	28	105	211	Pre-Cleaning Test
7	09/15/2020 11:01 AM	WEC	Fitness Center	5lb Dumbbell Handle*	307	105	211	Pre-Cleaning Test
8	09/15/2020 11:01 AM	WEC	Fitness Center	25lb, Dumbbell Handle*	284	105	211	Pre-Cleaning Test
9	09/15/2020 11:02 AM	WEC	Fitness Center	Bench 1, Surface*	286	105	211	Pre-Cleaning Test
10	09/15/2020 11:02 AM	WEC	Fitness Center	Bench 2, Surface	0	105	211	Pre-Cleaning Test
11	09/15/2020 11:03 AM	WEC	Fitness Center	Bench 3, Surface	55	105	211	Pre-Cleaning Test

12	09/15/2020 11:03 AM	WEC	Fitness Center	Seat 1, Surface	49	105	211	Pre-Cleaning Test
13	09/15/2020 11:04 AM	WEC	Fitness Center	Seat 2, Surface	196	105	211	Pre-Cleaning Test
14	09/15/2020 11:05 AM	WEC	Fitness Center	Door Push Bar*	227	105	211	Pre-Cleaning Test, Fitness Center Side of the Door
15	09/15/2020 11:08 AM	WEC	Fitness Center	Door Handle*	821	105	211	Pre-Cleaning Test, "Hallway" side of Door
16	09/15/2020 11:14 AM	WEC	Fitness Center	Treadmill 4, Interface*	312	105	211	Post-Cleaning Test, NJIT Building Services recleaned the area
17	09/15/2020 11:15 AM	WEC	Fitness Center	Treadmill 6 Interface	10	105	211	Post-Cleaning Test
18	09/15/2020 11:15 AM	WEC	Fitness Center	Treadmill 8, Interface*	315	105	211	Post-Cleaning Test,
19	09/15/2020 11:19 AM	WEC	Fitness Center	Treadmill 4, Interface	155	105	211	Post-Cleaning Test, Test No. 16 Retest
20	09/15/2020 11:19 AM	WEC	Fitness Center	Treadmill 8, Interface	55	105	211	Post-Cleaning Test, Test No. 18 Retest
21	09/15/2020 11:22 AM	WEC	Fitness Center	5lb Dumbbell Handle	45	105	211	Test No. 7 Post- Cleaning Test

22	09/15/2020 11:23 AM	WEC	Fitness Center	25lb, Dumbbell Handle*	204	105	211	Test No. 8 Post-Cleaning Test, due to The Fitness Center Operation Hours, Recleaning could not be Conducted, COVID-19 Surface Sample taken instead
23	09/15/2020 11:23 AM	WEC	Fitness Center	Bench 1, Surface*	276	105	211	Post-Cleaning Test, due to The Fitness Center operation hours, recleaning could not be conducted, Student employee recleaned surface
24	09/15/2020 11:24 AM	WEC	Fitness Center	Bench 3, Surface	144	105	211	Post-Cleaning Test
25	09/15/2020 11:25 AM	WEC	Fitness Center	Seat 2, Surface	79	105	211	Post-Cleaning Test

26	09/15/2020 11:26 AM	WEC	Fitness Center	Door Handle*	422	105	211	Post-Cleaning Test, "Hallway" side of the Door. Due to The Fitness Center Operation Hours, Recleaning could not be Conducted, COVID-19 Surface Sample taken instead
27	09/15/2020 11:27 AM	WEC	Fitness Center	Door Push Bar	180	105	211	Post-Cleaning Test, Fitness Center Side of the Door.
28	09/15/2020 11:29 AM	WEC	Fitness Center	Pull-Up Bar*	673	105	211	Post-Cleaning Test, due to The Fitness Center Operation Hours, Recleaning could not be Conducted, COVID-19 Surface Sample taken instead
29	09/15/2020 11:31 AM	WEC	Fitness Center	Kettle Bell Handle	88	105	211	Post-Cleaning Test
30	09/15/2020 11:31 AM	WEC	Fitness Center	Dip Stand Handle	95	105	211	Post-Cleaning Test
31	09/15/2020 11:35 AM	WEC	Fitness Center	"Chest Fly" Machine Handle	48	105	211	Post-Cleaning Test
32	09/15/2020 11:35 AM	WEC	Fitness Center	Pull-Up Machine Handle	149	105	211	Post-Cleaning Test
33	09/15/2020 11:54 AM	WEC	Room 1B9.02	Door 02 Push Bar	87	105	211	Classroom Side
34	09/15/2020 11:55 AM	WEC	Room 1B9.02	Door 01, Push Bar	22	105	211	Classroom Side

35	09/15/2020 11:57 AM	WEC	Room 1B9.02	Table 1, Seat A	36	105	211	
36	09/15/2020 11:58 AM	WEC	Room 1B9.02	Table 1, Seat C	35	105	211	
37	09/15/2020 11:59 AM	WEC	Room 1B9.02	Table 2, Seat B*	351	105	211	NJIT Building Services were contacted, but due to classroom schedule, recleaning could not be conducted. COVID-19 Surface Sample taken instead
38	09/15/2020 11:59 AM	WEC	Room 1B9.02	Table 2, Seat D	175	105	211	
39	09/15/2020 12:00 PM	WEC	Room 1B9.02	Table 3, Seat E	30	105	211	
40	09/15/2020 12:01 PM	WEC	Room 1B9.02	Table 3, Seat F	108	105	211	
41	09/15/2020 12:01 PM	WEC	Room 1B9.02	Table 4, Seat A	21	105	211	
42	09/15/2020 12:02 PM	WEC	Room 1B9.02	Table 4, Seat C	40	105	211	
43	09/15/2020 12:02 PM	WEC	Room 1B9.02	Table 5, Seat B	7	105	211	
44	09/15/2020 12:03 PM	WEC	Room 1B9.02	Table 5, Seat D	5	105	211	
45	09/15/2020 12:04 PM	WEC	Room 1B9.02	Table 6, Seat E	18	105	211	
46	09/15/2020 12:05 PM	WEC	Room 1B9.02	Table 6, Seat F	39	105	211	
47	09/15/2020 12:05 PM	WEC	Room 1B9.02	Table 7, Seat A	1	105	211	
48	09/15/2020 12:06 PM	WEC	Room 1B9.02	Table 7, Seat C	188	105	211	

49	09/15/2020 12:07 PM	WEC	Room 1B9.02	Table 8, Seat B	22	105	211	
50	09/15/2020 12:08 PM	WEC	Room 1B9.02	Table 8, Seat D	14	105	211	
51	09/15/2020 12:08 PM	WEC	Room 1B9.02	Table 9, Seat C	72	105	211	
52	09/15/2020 12:09 PM	WEC	Room 1B9.02	Table 9, Seat D	29	105	211	
53	09/15/2020 12:10 PM	WEC	Room 1B9.02	Table 10, Seat A	29	105	211	
54	09/15/2020 12:11 PM	WEC	Room 1B9.02	Table 10, Seat C	64	105	211	
55	09/15/2020 12:11 PM	WEC	Room 1B9.02	Table 11, Seat B	128	105	211	
56	09/15/2020 12:12 PM	WEC	Room 1B9.02	Table 11, Seat D	62	105	211	
57	09/15/2020 12:12 PM	WEC	Room 1B9.02	Table 12, Seat E*	205	105	211	NJIT Building Services were contacted, but due to classroom schedule recleaning could not be conducted. COVID-19 Surface Sample taken instead.
58	09/15/2020 12:13 PM	WEC	Room 1B9.02	Table 12, Seat D	65	105	211	
59	09/15/2020 12:14 PM	WEC	Room 1B9.02	Table 13, Seat A	18	105	211	
60	09/15/2020 12:14 PM	WEC	Room 1B9.02	Table 13, Seat C	6	105	211	
61	09/15/2020 12:14 PM	WEC	Room 1B9.02	Table 14, Seat B	13	105	211	
62	09/15/2020 12:15 PM	WEC	Room 1B9.02	Table 14, Seat D	54	105	211	

63	09/15/2020 12:16 PM	WEC	Room 1B9.02	Table 15, Seat E	90	105	211	
64	09/15/2020 12:16 PM	WEC	Room 1B9.02	Table 15, Seat F	37	105	211	
65	09/15/2020 12:17 PM	WEC	Room 1B9.02	Table 16, Seat A	35	105	211	
66	09/15/2020 12:17 PM	WEC	Room 1B9.02	Table 16, Seat C	68	105	211	
67	09/15/2020 12:59 PM	Cullimore Hall	Room 106	Row 1, Seat 1	22	105	211	
68	09/15/2020 01:00 PM	Cullimore Hall	Room 106	Row 1, Seat 3	18	105	211	
69	09/15/2020 01:01 PM	Cullimore Hall	Room 106	Row 1, Seat 8	6	105	211	
70	09/15/2020 01:03 PM	Cullimore Hall	Room 106	Row 1, Seat 9	3	105	211	
71	09/15/2020 01:06 PM	Cullimore Hall	Room 106	Row 3, Seat 3	15	105	211	
72	09/15/2020 01:06 PM	Cullimore Hall	Room 106	Row 3, Seat 4	7	105	211	
73	09/15/2020 01:07 PM	Cullimore Hall	Room 106	Row 3, Seat 6	9	105	211	
74	09/15/2020 01:08 PM	Cullimore Hall	Room 106	Row 3, Seat 7	97	105	211	
75	09/15/2020 01:10 PM	Cullimore Hall	Room 106	Row 5, Seat 1	11	105	211	
76	09/15/2020 01:10 PM	Cullimore Hall	Room 106	Row 5, Seat 2	17	105	211	
77	09/15/2020 01:11 PM	Cullimore Hall	Room 106	Row 5, Seat 5	11	105	211	
78	09/15/2020 01:12 PM	Cullimore Hall	Room 106	Row 5, Seat 7	14	105	211	
79	09/15/2020 01:14 PM	Cullimore Hall	Room 106	Row 7, Seat 1	8	105	211	
80	09/15/2020 01:15 PM	Cullimore Hall	Room 106	Row 7, Seat 3	20	105	211	

81	09/15/2020 01:15 PM	Cullimore Hall	Room 106	Row 7, Seat 6	42	105	211	
82	09/15/2020 01:16 PM	Cullimore Hall	Room 106	Row 7, Seat 8	20	105	211	
83	09/15/2020 01:18 PM	Cullimore Hall	Room 106	Row 9, Seat 1	14	105	211	
84	09/15/2020 01:18 PM	Cullimore Hall	Room 106	Row 9, Seat 3	8	105	211	
85	09/15/2020 01:19 PM	Cullimore Hall	Room 106	Row 9, Seat 6	16	105	211	
86	09/15/2020 01:20 PM	Cullimore Hall	Room 106	Row 9, Seat 9	17	105	211	
87	09/15/2020 01:20 PM	Cullimore Hall	Room 106	Row 11 Seat 1	11	105	211	
88	09/15/2020 01:21 PM	Cullimore Hall	Room 106	Row 11, Seat 2	10	105	211	
89	09/15/2020 01:22 PM	Cullimore Hall	Room 106	Row 11, Seat 3	16	105	211	
90	09/15/2020 01:22 PM	Cullimore Hall	Room 106	Row 11, Seat 4	11	105	211	
91	09/15/2020 01:23 PM	Cullimore Hall	Room 106	Door Push Bar*	1264	105	211	Classroom Side of the Door, COVID-19 Surface Sample taken.
92	09/15/2020 01:26 PM	Cullimore Hall	Room 106	Extron Control Box	156	105	211	
93	09/16/2020 11:29 AM	Mechanical Engineering Center (MEC)	221	Row 1, Seat 2	13	105	211	
94	09/16/2020 11:30 AM	MEC	221	Row 1, Seat 4	15	105	211	
95	09/16/2020 11:31 AM	MEC	221	Row 1, Seat 7	6	105	211	
96	09/16/2020 11:32 AM	MEC	221	Row 3, Seat 1	13	105	211	

97	09/16/2020 11:32 AM	MEC	221	Row 3, Seat 5	4	105	211	
98	09/16/2020 11:33 AM	MEC	221	Row 3, Seat 8	11	105	211	
99	09/16/2020 11:33 AM	MEC	221	Row 3, Seat 10	5	105	211	
100	09/16/2020 11:35 AM	MEC	221	Row 5, Seat 1	24	105	211	
101	09/16/2020 11:35 AM	MEC	221	Row 5, Seat 4	7	105	211	
102	09/16/2020 11:36 AM	MEC	221	Row 5, Seat 6	10	105	211	
103	09/16/2020 11:36 AM	MEC	221	Row 5, Seat 7	6	105	211	
104	09/16/2020 11:37 AM	MEC	221	Row 5, Seat 9	4	105	211	
105	09/16/2020 11:39 AM	MEC	224	Door Push Bar	25	105	211	Left side of the Classroom, Classroom side of the door.
106	09/16/2020 11:40 AM	MEC	224	Cisco Tablet	63	105	211	
107	09/16/2020 12:01 PM	MEC	224	Row 1, Seat 1	27	105	211	
108	09/16/2020 12:01 PM	MEC	224	Row 1, Seat 4	12	105	211	
109	09/16/2020 12:02 PM	MEC	224	Row 1, Seat 7	1	105	211	
110	09/16/2020 12:03 PM	MEC	224	Row 3, Seat 3	17	105	211	
111	09/16/2020 12:03 PM	MEC	224	Row 3, Seat 5	17	105	211	
112	09/16/2020 12:04 PM	MEC	224	Row 3, Seat 11	10	105	211	
113	09/16/2020 12:04 PM	MEC	224	Row 5, Seat 2	14	105	211	

114	09/16/2020 12:05 PM	MEC	224	Row 5, Seat 6	7	105	211	
115	09/16/2020 12:05 PM	MEC	224	Row 5, Seat 12	9	105	211	
116	09/16/2020 12:06 PM	MEC	224	Door Handle	13	105	211	Left side of the Classroom, Classroom side of the door.
117	09/16/2020 12:06 PM	MEC	224	Light Switch	13	105	211	
118	09/16/2020 12:38 PM	Life Science & Engineering Center (LSEC)	Ground Fl Sitting Area	Table 1	73	105	211	Multiple Elevated Readings, NJIT Building Service was contacted for a reclean.
119	09/16/2020 12:39 PM	LSEC	Ground Fl Sitting Area	Table 2	31	105	211	
120	09/16/2020 12:40 PM	LSEC	Ground Fl Sitting Area	Table 3	183	105	211	
121	09/16/2020 12:41 PM	LSEC	Ground Fl Sitting Area	Table 4	59	105	211	
122	09/16/2020 12:41 PM	LSEC	Ground Fl Sitting Area	Table 5	72	105	211	
123	09/16/2020 12:42 PM	LSEC	Ground Fl Sitting Area	Table 6	116	105	211	
124	09/16/2020 12:42 PM	LSEC	Ground Fl Sitting Area	Table 7	116	105	211	
125	09/16/2020 12:43 PM	LSEC	Ground Fl Sitting Area	Table 8*	1912	105	211	
126	09/16/2020 12:44 PM	LSEC	Ground Fl Sitting Area	Table 9*	244	105	211	

127	09/16/2020 12:44 PM	LSEC	Ground Fl Sitting Area	Table 10	78	105	211	
128	09/16/2020 12:45 PM	LSEC	Ground Fl Sitting Area	Table 11*	281	105	211	
129	09/16/2020 12:45 PM	LSEC	Ground Fl Sitting Area	Table 12	50	105	211	
130	09/16/2020 01:30 PM	LSEC	Ground Fl Sitting Area	Table 1	59	105	211	Post-recleaning Sample
131	09/16/2020 01:31 PM	LSEC	Ground Fl Sitting Area	Table 2	25	105	211	Post-recleaning Sample
132	09/16/2020 01:31 PM	LSEC	Ground Fl Sitting Area	Table 3	3	105	211	Post-recleaning Sample
133	09/16/2020 01:33 PM	LSEC	Ground Fl Sitting Area	Table 4	15	105	211	Post-recleaning Sample
134	09/16/2020 01:34 PM	LSEC	Ground Fl Sitting Area	Table 5	18	105	211	Post-recleaning Sample
135	09/16/2020 01:34 PM	LSEC	Ground Fl Sitting Area	Table 6	3	105	211	Post-recleaning Sample
136	09/16/2020 01:37 PM	LSEC	Ground Fl Sitting Area	Table 7	68	105	211	Post-recleaning Sample
137	09/16/2020 01:38 PM	LSEC	Ground Fl Sitting Area	Table 8	108	105	211	Post-recleaning Sample
138	09/16/2020 01:38 PM	LSEC	Ground Fl Sitting Area	Table 9	22	105	211	Post-recleaning Sample
139	09/16/2020 01:40 PM	LSEC	Ground Fl Sitting Area	Table 10	20	105	211	Post-recleaning Sample
140	09/16/2020 01:40 PM	LSEC	Ground Fl Sitting Area	Table 11	5	105	211	Post-recleaning Sample
141	09/16/2020 01:40 PM	LSEC	Ground Fl Sitting Area	Table 12	7	105	211	Post-recleaning Sample

142	09/16/2020 03:16 PM	Kupfrian Hall	Room 210	Row 1, Seat 1	15	105	211	
143	09/16/2020 03:16 PM	Kupfrian Hall	Room 210	Row 1, Seat 2	13	105	211	
144	09/16/2020 03:17 PM	Kupfrian Hall	Room 210	Row 2, Seat 2	62	105	211	
145	09/16/2020 03:17 PM	Kupfrian Hall	Room 210	Row 2, Seat 5	36	105	211	
146	09/16/2020 03:18 PM	Kupfrian Hall	Room 210	Row 2, Seat 8	30	105	211	
147	09/16/2020 03:18 PM	Kupfrian Hall	Room 210	Row 3, Seat 1	48	105	211	
148	09/16/2020 03:19 PM	Kupfrian Hall	Room 210	Row 3, Seat 7	18	105	211	
149	09/16/2020 03:19 PM	Kupfrian Hall	Room 210	Row 3, Seat 9	30	105	211	
150	09/16/2020 03:20 PM	Kupfrian Hall	Room 210	Row 4, Seat 1	53	105	211	
151	09/16/2020 03:20 PM	Kupfrian Hall	Room 210	Row 4, Seat 5	23	105	211	
152	09/16/2020 03:20 PM	Kupfrian Hall	Room 210	Row 4, Seat 8	39	105	211	
153	09/16/2020 03:21 PM	Kupfrian Hall	Room 210	Row 5, Seat 1	34	105	211	
154	09/16/2020 03:22 PM	Kupfrian Hall	Room 210	Row 5, Seat 6	43	105	211	
155	09/16/2020 03:22 PM	Kupfrian Hall	Room 210	Row 5, Seat 8	7	105	211	
156	09/16/2020 03:22 PM	Kupfrian Hall	Room 210	Row 6, Seat 2	95	105	211	
157	09/16/2020 03:23 PM	Kupfrian Hall	Room 210	Row 6, Seat 3	13	105	211	
158	09/16/2020 03:23 PM	Kupfrian Hall	Room 210	Row 6, Seat 4	75	105	211	
159	09/16/2020 03:24 PM	Kupfrian Hall	Room 210	Row 7, Seat 1	2	105	211	

160	09/16/2020 03:24 PM	Kupfrian Hall	Room 210	Row 7, Seat 6	23	105	211	
161	09/16/2020 03:25 PM	Kupfrian Hall	Room 210	Row 7, Seat 7	154	105	211	
162	09/16/2020 03:25 PM	Kupfrian Hall	Room 210	Row 8, Seat 2	11	105	211	
163	09/16/2020 03:25 PM	Kupfrian Hall	Room 210	Row 8, Seat 5	28	105	211	
164	09/16/2020 03:26 PM	Kupfrian Hall	Room 210	Row 8, Seat 8	12	105	211	
165	09/16/2020 03:26 PM	Kupfrian Hall	Room 210	Row 9, Seat 1	7	105	211	
166	09/16/2020 03:27 PM	Kupfrian Hall	Room 210	Row 9, Seat 6	8	105	211	
167	09/16/2020 03:27 PM	Kupfrian Hall	Room 210	Row 9, Seat 8	16	105	211	
168	09/16/2020 03:28 PM	Kupfrian Hall	Room 210	Row 10, Seat 2	5	105	211	
169	09/16/2020 03:28 PM	Kupfrian Hall	Room 210	Row 10, Seat 3	4	105	211	
170	09/16/2020 03:29 PM	Kupfrian Hall	Room 210	Row 10, Seat 8	10	105	211	
171	09/16/2020 03:29 PM	Kupfrian Hall	Room 210	Row 11, Seat 1	5	105	211	
172	09/16/2020 03:29 PM	Kupfrian Hall	Room 210	Row 11, Seat 6	13	105	211	
173	09/16/2020 03:30 PM	Kupfrian Hall	Room 210	Row 11, Seat 7	7	105	211	
174	09/16/2020 03:30 PM	Kupfrian Hall	Room 210	Row 12, Seat 1	3	105	211	
175	09/16/2020 03:31 PM	Kupfrian Hall	Room 210	Row 12, Seat 3	4	105	211	
176	09/16/2020 03:31 PM	Kupfrian Hall	Room 210	Row 12, Seat 5	20	105	211	
177	09/16/2020 03:39 PM	Cullimore Hall	Room 103	Row 1, Seat 3	2	105	211	

178	09/16/2020 03:39 PM	Cullimore Hall	Room 103	Row 1, Seat 7	2	105	211	
179	09/16/2020 03:40 PM	Cullimore Hall	Room 103	Row 3, Seat 2	2	105	211	
180	09/16/2020 03:40 PM	Cullimore Hall	Room 103	Row 3, Seat 5	3	105	211	
181	09/16/2020 03:41 PM	Cullimore Hall	Room 103	Row 3, Seat 8	7	105	211	
182	09/16/2020 03:41 PM	Cullimore Hall	Room 103	Row 5, Seat 3	5	105	211	
183	09/16/2020 03:42 PM	Cullimore Hall	Room 103	Row 5, Seat 6	2	105	211	
184	09/16/2020 03:42 PM	Cullimore Hall	Room 103	Row 5, Seat 9	6	105	211	
185	09/16/2020 03:42 PM	Cullimore Hall	Room 103	Row 7, Seat 2	3	105	211	
186	09/16/2020 03:43 PM	Cullimore Hall	Room 103	Row 7, Seat 5	3	105	211	
187	09/16/2020 03:43 PM	Cullimore Hall	Room 103	Row 7, Seat 8	4	105	211	
188	09/16/2020 03:44 PM	Cullimore Hall	Room 103	Row 9, Seat 3	4	105	211	
189	09/16/2020 03:44 PM	Cullimore Hall	Room 103	Row 9, Seat 5	3	105	211	
190	09/16/2020 03:44 PM	Cullimore Hall	Room 103	Row 9, Seat 6	0	105	211	
191	09/16/2020 03:52 PM	Houten Library	1st Floor	Column 1, Computer 1 Keyboard	126	105	211	
192	09/16/2020 03:52 PM	Houten Library	1st Floor	Column 1, Computer 2 Mouse	201	105	211	
193	09/16/2020 03:53 PM	Houten Library	1st Floor	Column 2, Computer 2 Keyboard	56	105	211	
194	09/16/2020 03:54 PM	Houten Library	1st Floor	Column 2, Computer 4 Mouse*	504	105	211	COVID-19 Surface Sample Taken

195	09/16/2020 03:54 PM	Houten Library	1st Floor	Column 3, Computer 5 Mouse	74	105	211	
196	09/16/2020 03:55 PM	Houten Library	1st Floor	Column 4, Computer 1 Keyboard	44	105	211	
197	09/16/2020 03:55 PM	Houten Library	1st Floor	Column 4, Computer 4 Keyboard	173	105	211	
198	09/16/2020 03:56 PM	Houten Library	1st Floor	Column 5, Computer 3 Keyboard	27	105	211	
199	09/16/2020 03:57 PM	Houten Library	1st Floor	Column 6, Computer 3 Mouse	132	105	211	
200	09/16/2020 03:58 PM	Houten Library	1st Floor	Women's Bathroom Door Push Pad	40	105	211	
201	09/16/2020 03:58 PM	Houten Library	1st Floor	Men's Bathroom Door Push Pad	16	105	211	
202	09/16/2020 03:59 PM	Houten Library	Lower Level	Drinking Vending Machine Keypad	52	105	211	
203	09/16/2020 04:00 PM	Houten Library	Lower Level	Wooden Tabletop*	333	105	211	Table closest to Vending Machine, COVID-19 Surface Sample taken.
204	09/16/2020 04:00 PM	Houten Library	Lower Level	Wooden Tabletop	9	105	211	Directly across from entrance to Lower Level sitting area.
205	09/16/2020 04:03 PM	Houten Library	2nd Floor	Door Handle	15	105	211	Door to Room 2022, Hallway side of the door.
206	09/16/2020 04:04 PM	Houten Library	3rd Floor	Door Handle	56	105	211	Door to 3 rd Floor sitting area, Stairwell side of door.

207	09/16/2020 04:04 PM	Houten Library	3rd Floor	Elevator Call Button	112	105	211	
208	09/16/2020 04:39 PM	Tennis Center	Main Sitting Area	Table 1, Seat 1	6	105	211	
209	09/16/2020 04:40 PM	Tennis Center	Main Sitting Area	Table 1, Seat 5	6	105	211	
210	09/16/2020 04:40 PM	Tennis Center	Main Sitting Area	Table 2, Seat 3	23	105	211	
211	09/16/2020 04:41 PM	Tennis Center	Main Sitting Area	Table 2, Seat 6	12	105	211	
212	09/16/2020 04:41 PM	Tennis Center	Main Sitting Area	Table 3, Seat 2	2	105	211	
213	09/16/2020 04:42 PM	Tennis Center	Main Sitting Area	Table 3, Seat 4	1	105	211	
214	09/16/2020 04:44 PM	Tennis Center	Main Sitting Area	Table 4, Seat 1	7	105	211	
215	09/16/2020 04:45 PM	Tennis Center	Main Sitting Area	Table 4, Seat 2	15	105	211	
216	09/16/2020 04:45 PM	Tennis Center	Main Sitting Area	Table 5, Seat 3	5	105	211	
217	09/16/2020 04:46 PM	Tennis Center	Main Sitting Area	Table 5, Seat 5	11	105	211	
218	09/16/2020 04:46 PM	Tennis Center	Main Sitting Area	Table 6, Seat 1	22	105	211	
219	09/16/2020 04:47 PM	Tennis Center	Main Sitting Area	Table 6, Seat 6	8	105	211	
220	09/16/2020 04:49 PM	Tennis Center	Main Sitting Area	Table 7, Seat 2	9	105	211	
221	09/16/2020 04:49 PM	Tennis Center	Main Sitting Area	Table 7, Seat 4	7	105	211	
222	09/16/2020 04:50 PM	Tennis Center	Main Sitting Area	Table 8, Seat 1	9	105	211	
223	09/16/2020 04:50 PM	Tennis Center	Main Sitting Area	Table 8, Seat 3	13	105	211	
224	09/16/2020 04:51 PM	Tennis Center	Main Sitting Area	Table 9, Seat 5	9	105	211	

225	09/16/2020 04:51 PM	Tennis Center	Main Sitting Area	Table 9, Seat 6	9	105	211	
226	09/16/2020 04:54 PM	Tennis Center	Main Sitting Area	Table 10, Seat 2	12	105	211	
227	09/16/2020 04:55 PM	Tennis Center	Main Sitting Area	Table 10, Seat 4	11	105	211	
228	09/16/2020 04:55 PM	Tennis Center	Main Sitting Area	Table 11, Seat 1	9	105	211	
229	09/16/2020 04:56 PM	Tennis Center	Main Sitting Area	Table 11, Seat 3	22	105	211	
230	09/16/2020 04:57 PM	Tennis Center	Main Sitting Area	Table 12, Seat 5	13	105	211	
231	09/16/2020 04:57 PM	Tennis Center	Main Sitting Area	Table 12, Seat 6	32	105	211	
232	09/16/2020 04:59 PM	Tennis Center	Main Sitting Area	Table 13, Seat 6	12	105	211	
233	09/16/2020 05:00 PM	Tennis Center	Main Sitting Area	Table 14, Seat 5	46	105	211	
234	09/16/2020 05:00 PM	Tennis Center	Main Sitting Area	Table 15, Seat 4	9	105	211	
235	09/16/2020 05:01 PM	Tennis Center	Main Sitting Area	Table 16, Seat 3	6	105	211	
236	09/16/2020 05:01 PM	Tennis Center	Main Sitting Area	Table 17, Seat 2	8	105	211	
237	09/16/2020 05:02 PM	Tennis Center	Main Sitting Area	Table 18, Seat 1	174	105	211	
238	09/16/2020 05:11 PM	GITC (William S. Guttenberg Information Technologies Center)	Room 1110	Row 1, Seat 2	17	105	211	
239	09/16/2020 05:11 PM	GITC	Room 1110	Row 1, Seat 13	26	105	211	
240	09/16/2020 05:12 PM	GITC	Room 1110	Row 1, Seat 14	31	105	211	
241	09/16/2020 05:13 PM	GITC	Room 1110	Row 3, Seat 2	24	105	211	

242	09/16/2020 05:13 PM	GITC	Room 1110	Row 3, Seat 5	13	105	211	
243	09/16/2020 05:13 PM	GITC	Room 1110	Row 3, Seat 7	12	105	211	
244	09/16/2020 05:14 PM	GITC	Room 1110	Row 5, Seat 4	9	105	211	
245	09/16/2020 05:15 PM	GITC	Room 1110	Row 5, Seat 8	28	105	211	
246	09/16/2020 05:15 PM	GITC	Room 1110	Row 5, Seat 14	21	105	211	
247	09/16/2020 05:16 PM	GITC	Room 1110	Row 7, Seat 1	16	105	211	
248	09/16/2020 05:16 PM	GITC	Room 1110	Row 7, Seat 5	8	105	211	
249	09/16/2020 05:17 PM	GITC	Room 1110	Row 7, Seat 8	8	105	211	

Field Notes

- Seat numbering starts on the left side of the room, from the perspective on the instructor.
- Row A is the row closest to the instructor.
- All directions and labels are from the perspective of the instructor, looking towards the seats.

Data Interpretation:

- 20 out of the 249 samples resulted in elevated ATP levels.
- When it was possible, Omega contacted NJIT Building Services to reclean the surfaces with elevated ATP levels. Retest results indicated acceptable levels of ATP on all recleaned surfaces. In a situation where this was not possible due to class or other scheduling conflicts, a COVID-19 surface sample was taken instead.

Surface SARS-CoV-2 Swab Data: 9/15/20-9/16/20

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	WEC, Fitness Center, 25lb Dumbbell Handle	Negative
2	WEC, Fitness Center, Door Handle, "Hallway Side"	Negative
3	WEC, Fitness Center, Treadmill 4, Interface	Negative
4	WEC, Fitness Center, Pull-Up Bar	Negative
5	WEC, Room 1B9.02, Table 7, Seat C	Negative
6	WEC, Room 1B9.02, Table 11, Seat B	Negative
7	WEC, Room 1B9.02, Table 12, Seat E	Negative
8	WEC, Room 1B9.02, Table 2, Seat B	Negative
9	Cullimore Hall, Room 106, Door Push Bar, Classroom Side	Negative
10	Cullimore Hall, Room 106, Row 3, Seat 07	Negative
11	Cullimore Hall, Room 106 Extron Control Box	Negative
12	MEC, Room 221, Row 5, Seat 1	Negative
13	MEC, Room 224, Row 1, Seat 1	Negative
14	LSEC, Ground Sitting Area Table 8	Negative
15	Kupfrian, Room 210, Row 7, Seat 7 Table	Negative
16	Cullimore Hall, Room 103, Row 3, Seat 8	Negative
17	Houten Library, Column 2, Computer 4, Mouse	Negative
18	Houten Library, Column 1, Computer 2, Mouse	Negative
19	Houten Library, Column 4, Computer 4, Keyboard	Negative
20	Houten Library, Column 6, Computer 3, Mouse	Negative
21	Houten Library, Lower Level, Wooden Tabletop	Negative
22	Houten Library, 3rd Fl. Elevator Call Button	Negative
23	Nemoli Tennis Center, Table 14, Seat 5	Negative
24	Nemoli Tennis Center, Table 18, Seat 1	Negative
25	GITC, Room. 1110, Row 1, Seat 14	Negative

SARS-CoV-2 Air Sample Data: 9/15/20-9/16/20

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	WEC, Workout Center	Negative
2	Cullimore Hall, Room 106	Negative
3	LSEC, Ground Floor, Sitting Area	Negative
4	Houten Library, 1 st Floor, Main Sitting Area	Negative
5	MEC, Room 221	Negative
6	Nemoli Tennis Center, Commuter Student Sitting Area	Negative
7	Campus Center, Grab and Go Area	Negative
8	Kupfrian Hall, Room 210	Negative
9	Cullimore Hall, Room 103	Negative
10	GITC, Room 1100	Negative
11	WEC, Lecture Hall	Negative

Data Interpretation:

- Laboratory results indicate all the SARS-Cov-2 samples taken on 9/15/20 and 9/16/20 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: 20-1175

Sample date: NA

Submittal date: 9-15-2020

Sample received: 9-16-2020

Samples submitted by: Kadeem Hill

Date analysis completed: September 17, 2020

Prestige Report number: 200916-02

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 ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200916-02-004 01 25LBs Dumbbell Handle	ND	ND	ND	ND	Negative
200916-02-005 02 Door Push Bar Hallway	ND	ND	ND	ND	Negative
200916-02-006 03 Tread Machine 04 Start Button	ND	ND	ND	ND	Negative
200916-02-007 04 Pull Up Bar @ Central Unit	ND	ND	ND	ND	Negative
200916-02-008 05 WEC 1B9.02 Table 7, Seat C	ND	ND	ND	ND	Negative
200916-02-009 06 WEC 1B9.02 Table 11, Seat B	ND	ND	ND	ND	Negative
200916-02-010 07 WEC 1B9.02 Table 12, Seat E	ND	ND	ND	ND	Negative
200916-02-011 08 WEC 1B9.02 Table 2, Seat B	ND	ND	ND	ND	Negative
200916-02-014 11 Cullimore Room Door Push Bar	ND	ND	ND	ND	Negative
200916-02-015 12 Cullimore Room, Row 3, Seat 07	ND	ND	ND	ND	Negative

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

Prestige EnviroMicrobiology, Inc.

Coronavirus-19 Verification Testing Report {Omega Project #: 20-1175}

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201) 342-5412

200916-02-016 13 Cullimore Room Extron Control Box	ND	ND	ND	ND	Negative
---	----	----	----	----	----------

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 ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200916-02-012 09 WEC Workout Center	ND	ND	ND	ND	Negative
200916-02-013 10 Cullimore Room 106	ND	ND	ND	ND	Negative

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. 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: 20-1175

Sample date: NA

Submittal date: NA

Sample received: 9-17-2020

Samples submitted by: Kadeem Hill

Date analysis completed: September 18, 2020

Prestige Report number: 200917-06

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 ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200917-06-026 01 MEC Room 221, Row 5, Seat 1	ND	ND	ND	ND	Negative
200917-06-027 02 MEC Room 224, Row 1, Seat 1	ND	ND	ND	ND	Negative
200917-06-032 07 LSEC Ground Sitting Area Table 8	ND	ND	ND	ND	Negative
200917-06-034 09 Kupfrian 210, Row 7, Seat 7 Table	ND	ND	ND	ND	Negative
200917-06-035 10 Cullimore 103, Row 3, Seat 8	ND	ND	ND	ND	Negative
200917-06-036 11 Library Column 2 Computer 4	ND	ND	ND	ND	Negative
200917-06-037 12 Library Column 1 Computer 2 Mouse	ND	ND	ND	ND	Negative
200917-06-038 13 Library: Column 4 Computer 4 Keyboard	ND	ND	ND	ND	Negative
200917-06-039 14 Library: Column 6 Computer 3 Mouse	ND	ND	ND	ND	Negative
200917-06-040 15 Library: Tabletop Lower Lvl.	ND	ND	ND	ND	Negative

200917-06-041 16 Library: 3 rd Fl. Elevator "Call" Button	ND	ND	ND	ND	Negative
200917-06-046 21 Nemoli Tennis Central, Table 14, Seat 5	ND	ND	ND	ND	Negative
200917-06-047 22 Nemoli Tennis Central, Table 18, Seat 1	ND	ND	ND	ND	Negative
200917-06-048 23 GITC Rm. 1110, Row 1, Seat 14	ND	ND	ND	ND	Negative

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

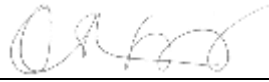
Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Result
200917-06-028 03 LSEC Ground Floor Sitting Area	ND	ND	ND	ND	Negative
200917-06-029 04 Library Main Sitting Area 1 st Fl.	ND	ND	ND	ND	Negative
200917-06-030 05 MEC Room 221	ND	ND	ND	ND	Negative
200917-06-031 06 Nemoli Tennis Center Commuter Student Sitting Area	ND	ND	ND	ND	Negative
200917-06-033 08 Campus Center Grab+Go Area	ND	ND	ND	ND	Negative
200917-06-042 17 Kupfrian Room 210	ND	ND	ND	ND	Negative
200917-06-043 18 Cullimore Room 103	ND	ND	ND	ND	Negative
200917-06-044 19 GITC Room 1100	ND	ND	ND	ND	Negative
200917-06-045 20 WEC Lecture Hall	ND	ND	ND	ND	Negative

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. 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>