

# PRELIMINARY ATP CLEANING VERIFICATION TESTING REPORT

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333 Martin Luther King Blvd

Newark, NJ 07102

SITE LOCATION: New Jersey Institute of Technology

333 Martin Luther King Blvd

Newark, NJ 07102

AREAS TESTED: Campus Center

Robert W. Van Houten Library

SCOPE OF WORK: Background ATP Cleaning Verification Testing

CLIENT CONTACT(S): Mitchell Gayer

SITE EVALUATION CONDUCTED: 08/24/20 & 8/26/20

DATE OF REPORT: 08/28/20

REPORT PREPARED BY: Kadeem Hill

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

{Omega Project#: 20-1175}

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## **Executive Summary:**

On 08/19/20 Omega Environmental Services conducted background ATP cleaning verification testing in the Campus Center and Robert W. Van Houten Library.

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

Parameter	Results
Adenosine Triphosphate (ATP) Direct Reads:	7 out of the 59 samples resulted in elevated ATP
Bioluminescence Meter (Detects Bacteria and Bio-	levels. NJIT Building Services was contacted to
Load)	perform corrective actions.

#### Project Overview/Scope of Work:

The New Jersey Institute of Technology contracted Omega Environmental Services to conduct routine ATP and SARS-CoV-2 (COVID-19) environmental sampling to test the efficacy of in-house cleaning techniques. In order to determine an acceptable control limit background ATP testing was conducted before the campus was reoccupied with students.

#### **Bio-Load 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.

- ESTABLISHMENT OF "NORMAL HOSPITAL BACKGROUND": Except for biological research laboratories and university health services, typical university indoor areas and surfaces are not expected to be completely sterile due to student/visitor access without full PPE. Therefore, Omega established "normal background bio-load levels" before the campus was reoccupied with students.
- REAL-TIME FIELD SCREEN USING ATP DIRECT-READ BIO-LUMINESCENCE METER
  AND WHITE CLOTH TESTS: An Omega field IH inspected the most densely occupied buildings
  on campus and collected ATP swabs on a rotating component basis to develop control limits criteria
  that will be used in future sampling events.

#### **Definitions:**

ATP - Adenosine Triphosphate

HPC - Heterotrophic Plate Count

PCR - Polymerase Chain Reaction Polymerase

RLU – Relative Light Unit

Passing Result- RLU below the lower control limit

Cation Result- RLU above the lower control limit but below the upper control limit

Failing Result- RLU above the upper control limit

## ATP Direct Read: Bio-Luminescence Meter (Hygiena/Ensure) Data:

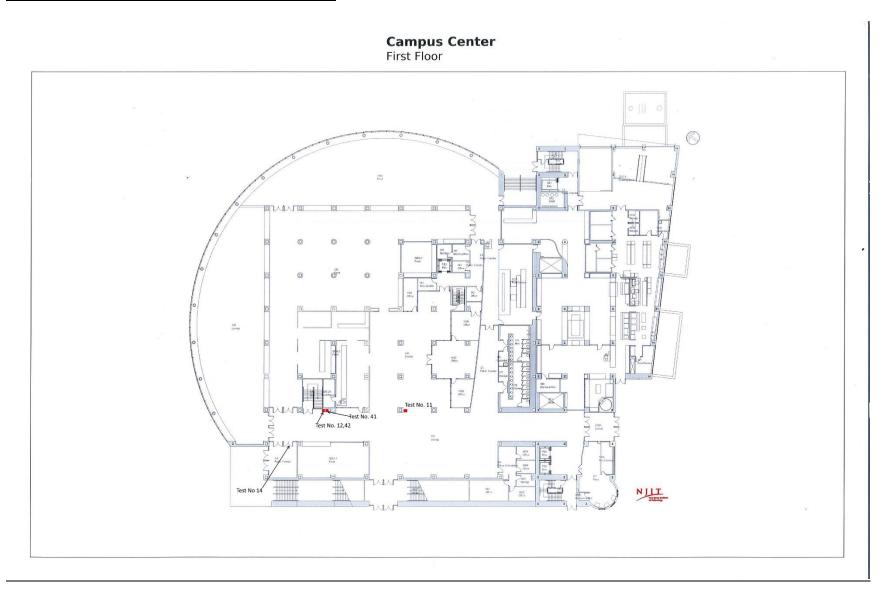
Test No.	Date	Building	Location	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
1	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	179	105	211	
2	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	157	105	211	
3	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	60	105	211	
4	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	40	105	211	
5	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	22	105	211	
6	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	138	105	211	
7	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	32	105	211	
8	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	28	105	211	
9	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	122	105	211	
10	8/24/20	Campus Center	Highlander Commons	Laminate Tabletop	21	105	211	

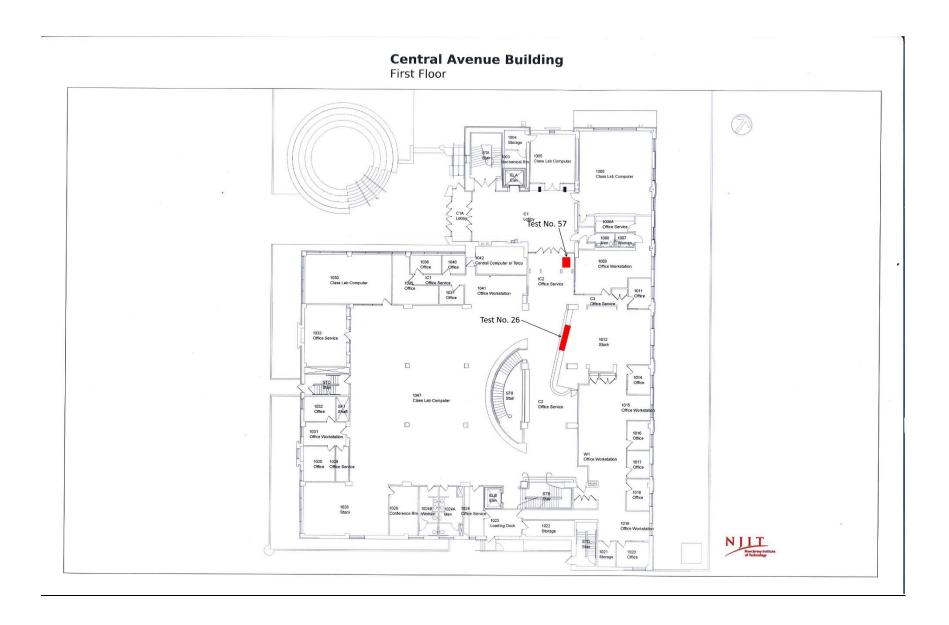
11	8/24/20	Campus Center	1st Fl Main Sitting Area	Visibly Dirty Wooden Tabletop	459	105	211	
12	8/24/20	Campus Center	1st Fl Main Sitting Area	Food Vending Machine Screen	239	105	211	
13	8/24/20	Campus Center	1st Fl Main Sitting Area	Drink Vending Machine Keypad	189	105	211	
14	8/24/20	Campus Center	1st Fl Main Sitting Area	Door Handle	246	105	211	Door to the 1st floor sitting area, sample taken on the vestibule side of the door
15	8/24/20	Campus Center	1st Fl Main Sitting Area	Door Handle	9	105	211	
16	8/24/20	Campus Center	1st Fl Main Sitting Area	Tabletop	30	105	211	
17	8/24/20	Campus Center	1st Fl Main Sitting Area	Tabletop	57	105	211	
18	8/24/20	Campus Center	1st Fl Main Sitting Area	Tabletop	16	105	211	
19	8/24/20	Campus Center	1st Fl Main Sitting Area	Tabletop	158	105	211	
20	8/24/20	Houten Library	1st Floor	1st Fl Men's Bathroom Door Pad	4	105	211	
21	8/24/20	Houten Library	1st Floor	1st Fl Women's Bathroom Door Pad	10	105	211	
22	8/24/20	Houten Library	1st Floor	Keyboard	67	105	211	
23	8/24/20	Houten Library	1st Floor	Keyboard	62	105	211	
24	8/24/20	Houten Library	1st Floor	Keyboard	63	105	211	
25	8/24/20	Houten Library	1st Floor	Keyboard	20	105	211	
26	8/24/20	Houten Library	1st Floor	Front Desk (Circulation)	531	105	211	
27	8/24/20	Houten Library	Lower Level	Men's Bathroom Door Pad	1	105	211	

28	8/24/20	Houten Library	Lower Level	Women's Bathroom Door Pad	1	105	211	
29	8/24/20	Houten Library	3rd Floor	Door Handle	3	105	211	Door to study area on the 3rd floor
30	8/26/20	Campus Center	Highlander Commons	Tabletop	24	105	211	
31	8/26/20	Campus Center	Highlander Commons	Tabletop	47	105	211	
32	8/26/20	Campus Center	Highlander Commons	Tabletop	32	105	211	
33	8/26/20	Campus Center	Highlander Commons	Tabletop	1	105	211	
34	8/26/20	Campus Center	Highlander Commons	Tabletop	62	105	211	
35	8/26/20	Campus Center	Highlander Commons	Tabletop	87	105	211	
36	8/26/20	Campus Center	Highlander Commons	Drink Machine Screen	135	105	211	
37	8/26/20	Campus Center	Highlander Commons	Door Handle	7	105	211	
38	8/26/20	Campus Center	Highlander Commons	Drink Machine Screen	9	105	211	Test No. Retest
39	8/26/20	Campus Center	Highlander Commons	Grab 'n' Go Table	26	105	211	Table where students pick up their meals
40	8/26/20	Campus Center	1st Fl Main Sitting Area	ATM Keypad	119	105	211	
41	8/26/20	Campus Center	1st Fl Main Sitting Area	Drink Vending Machine Keypad	236	105	211	Spoke to Henry Rzemieniewski about elevated
42	8/26/20	Campus Center	1st Fl Main Sitting Area	Food Vending Machine Screen	203	105	211	results, he instructed his staff to reclean the surface.
43	8/26/20	Campus Center	1st Fl Main Sitting Area	Door Handle	183	105	211	Sample taken on the vestibule side of the door; the door is furthest to the Right that leads to outside
44	8/26/20	Campus Center	1st Fl Main Sitting Area	Armchair Table	66	105	211	
45	8/26/20	Campus Center	1st Fl Main Sitting Area	Armchair Table	19	105	211	

46	8/26/20	Campus Center	1st Fl Main Sitting Area	Amazon Locker Keypad	6	105	211	
47	8/26/20	Campus Center	1st Fl Main Sitting Area	Campus Information Desk	125	105	211	
48	8/26/20	Campus Center	1st Fl Main Sitting Area	Stair Rail	6	105	211	Bottom of Stair rail located near amazon locker
49	8/26/20	Campus Center	1st Fl Main Sitting Area	Elevator Up button	111	105	211	
50	8/26/20	Houten Library	1st Floor	Guest Computers Bench Top	12	105	211	
51	8/26/20	Houten Library	1st Floor	Front Desk (Circulation)	60	105	211	
52	8/26/20	Houten Library	1st Floor	Printer Keypad	41	105	211	
53	8/26/20	Houten Library	1st Floor	Top of the Stair rail	26	105	211	
54	8/26/20	Houten Library	1st Floor	Computer Mouse	49	105	211	First computer in the first row
55	8/26/20	Houten Library	1st Floor	Computer Keyboard	9	105	211	5th computer in the 3rd Row
56	8/26/20	Houten Library	1st Floor	Laminate Tabletop	22	105	211	
57	8/26/20	Houten Library	1st Floor	Pen @ sign in desk	363	105	211	Omega recommends NJIT require the staff member present at the desk disinfect the pen after each use or require visitors to use their own pen.
58	8/26/20	Houten Library	1st Floor	Elevator Up button	43	105	211	
59	8/26/20	Houten Library	1st Floor	Door Handle	47	105	211	Door Handle to room 1029-1032

#### <u>Illustration of the Locations of Elevated results:</u>





Result Interpretation	
7 out of the 59 samples resulted in elevated ATP levels. NJIT Building Services was contacted to perform corrective	actions.
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