



# 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: 9/30/20-10/1/20

DATE OF REPORT: 10/02/2020

REPORT PREPARED BY: Kadeem Hill

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

{Omega Project#: 20-1175}

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Executive Summary:

On 9/30/20 and 10/1/20 Omega Environmental Services conducted ATP surface testing and SARS-CoV-2 environmental sampling in Kupfrain Hall, Mechanical Engineering Center (MEC), Faculty Memorial Hall (FMH), Guttenberg Information Technologies Center (GITC), Houten Library, The Campus Center, The Central King Building, Wellness Entertainment Center (WEC), Cullimore Hall, Life Science, and Engineering Center (LSEC), Oak Hall, Redwood Hall, Honors College, and Laurel Hall of the NJIT campus. 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:<br>Bioluminescence Meter (Detects Bacteria and Bio-Load) | <ul style="list-style-type: none"><li>• 9 out of the 197 ATP representative surface samples collected had recorded in elevated ATP levels (3.6% of samples).</li><li>• 4 out of the 9 surfaces with elevated ATP levels were re-cleaned by NJIT Building Services and retested. Retest results indicated acceptable levels of ATP on all re-cleaned surfaces.</li><li>• Omega Environmental Services collected SARS-CoV-2 surface samples on the 5 surfaces, with elevated ATP levels, that were not re-cleaned by NJIT Building Services.</li></ul> |
| Coronavirus-19 PCR Swab   | <ul style="list-style-type: none"><li>• Laboratory results indicate all the SARS-Cov-2 samples taken on 9/30/20 and 10/1/20 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 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        | 09/30/2020<br>10:47 AM | Kupfrain Hall | 206  | Door Handle          | 110        | 105                 | 211                 | Classroom Side |
| 2        | 09/30/2020<br>10:48 AM | Kupfrain Hall | 206  | Light Switch         | 129        | 105                 | 211                 |                |
| 3        | 09/30/2020<br>10:48 AM | Kupfrain Hall | 206  | Row 1, Seat 8, Table | 7          | 105                 | 211                 |                |
| 4        | 09/30/2020<br>10:49 AM | Kupfrain Hall | 206  | Row 1, Seat 6, Table | 18         | 105                 | 211                 |                |
| 5        | 09/30/2020<br>10:50 AM | Kupfrain Hall | 206  | Row 1, Seat 1, Table | 7          | 105                 | 211                 |                |
| 6        | 09/30/2020<br>10:50 AM | Kupfrain Hall | 206  | Row 2, Seat 7, Table | 11         | 105                 | 211                 |                |
| 7        | 09/30/2020<br>10:51 AM | Kupfrain Hall | 206  | Row 2, Seat 4, Table | 5          | 105                 | 211                 |                |
| 8        | 09/30/2020<br>10:52 AM | Kupfrain Hall | 206  | Row 2, Seat 3, Table | 13         | 105                 | 211                 |                |
| 9        | 09/30/2020<br>11:02 AM | Kupfrain Hall | 206  | Row 3, Seat 8, Table | 5          | 105                 | 211                 |                |
| 10       | 09/30/2020<br>11:03 AM | Kupfrain Hall | 206  | Row 3, Seat 6, Table | 6          | 105                 | 211                 |                |
| 11       | 09/30/2020<br>11:03 AM | Kupfrain Hall | 206  | Row 3, Seat 1, Table | 42         | 105                 | 211                 |                |

|    |                        |               |     |                       |    |     |     |  |
|----|------------------------|---------------|-----|-----------------------|----|-----|-----|--|
| 12 | 09/30/2020<br>11:04 AM | Kupfrain Hall | 206 | Row 4, Seat 8, Table  | 10 | 105 | 211 |  |
| 13 | 09/30/2020<br>11:05 AM | Kupfrain Hall | 206 | Row 4, Seat 4, Table  | 11 | 105 | 211 |  |
| 14 | 09/30/2020<br>11:05 AM | Kupfrain Hall | 206 | Row 4, Seat 3, Table  | 30 | 105 | 211 |  |
| 15 | 09/30/2020<br>11:06 AM | Kupfrain Hall | 206 | Row 5, Seat 7, Table  | 9  | 105 | 211 |  |
| 16 | 09/30/2020<br>11:07 AM | Kupfrain Hall | 206 | Row 5, Seat 6, Table  | 10 | 105 | 211 |  |
| 17 | 09/30/2020<br>11:07 AM | Kupfrain Hall | 206 | Row 5, Seat 1, Table  | 24 | 105 | 211 |  |
| 18 | 09/30/2020<br>11:08 AM | Kupfrain Hall | 206 | Row 6, Seat 8, Table  | 6  | 105 | 211 |  |
| 19 | 09/30/2020<br>11:08 AM | Kupfrain Hall | 206 | Row 6, Seat 6, Table  | 7  | 105 | 211 |  |
| 20 | 09/30/2020<br>11:39 AM | Kupfrain Hall | 204 | Row 1, Seat 1, Table  | 14 | 105 | 211 |  |
| 21 | 09/30/2020<br>11:40 AM | Kupfrain Hall | 204 | Row 1, Seat 2, Table  | 21 | 105 | 211 |  |
| 22 | 09/30/2020<br>11:40 AM | Kupfrain Hall | 204 | Row 2, Seat 3, Table  | 13 | 105 | 211 |  |
| 23 | 09/30/2020<br>11:41 AM | Kupfrain Hall | 204 | Row 2, Seat 6, Table  | 9  | 105 | 211 |  |
| 24 | 09/30/2020<br>11:42 AM | Kupfrain Hall | 204 | Row 2, Seat 9, Table  | 12 | 105 | 211 |  |
| 25 | 09/30/2020<br>11:42 AM | Kupfrain Hall | 204 | Row 3, Seat 1, Table  | 12 | 105 | 211 |  |
| 26 | 09/30/2020<br>11:43 AM | Kupfrain Hall | 204 | Row 3, Seat 4, Table  | 12 | 105 | 211 |  |
| 27 | 09/30/2020<br>11:44 AM | Kupfrain Hall | 204 | Row 3, Seat 12, Table | 3  | 105 | 211 |  |
| 28 | 09/30/2020<br>11:45 AM | Kupfrain Hall | 204 | Row 4, Seat 6, Table  | 79 | 105 | 211 |  |

|    |                        |               |     |                       |     |     |     |                         |
|----|------------------------|---------------|-----|-----------------------|-----|-----|-----|-------------------------|
| 29 | 09/30/2020<br>11:45 AM | Kupfrain Hall | 204 | Row 4 Seat 7, Table   | 9   | 105 | 211 |                         |
| 30 | 09/30/2020<br>11:46 AM | Kupfrain Hall | 204 | Row 4, Seat 10, Table | 9   | 105 | 211 |                         |
| 31 | 09/30/2020<br>11:47 AM | Kupfrain Hall | 204 | Row 5, Seat 3, Table  | 7   | 105 | 211 |                         |
| 32 | 09/30/2020<br>11:48 AM | Kupfrain Hall | 204 | Row 5, Seat 6, Table  | 15  | 105 | 211 |                         |
| 33 | 09/30/2020<br>11:49 AM | Kupfrain Hall | 204 | Row 5, Seat 9, Table  | 12  | 105 | 211 |                         |
| 34 | 09/30/2020<br>11:49 AM | Kupfrain Hall | 204 | Row 5, Seat 12, Table | 14  | 105 | 211 |                         |
| 35 | 09/30/2020<br>11:50 AM | Kupfrain Hall | 204 | Light Switch*         | 237 | 105 | 211 | SARS-CoV-2 Sample Taken |
| 36 | 09/30/2020<br>11:51 AM | Kupfrain Hall | 204 | Door Handle           | 72  | 105 | 211 | Classroom side          |
| 37 | 09/30/2020<br>12:25 PM | MEC           | 224 | Door Handle           | 89  | 105 | 211 | Left Side of Classroom  |
| 38 | 09/30/2020<br>12:26 PM | MEC           | 224 | Light Switch          | 82  | 105 | 211 | Left Side of Classroom  |
| 39 | 09/30/2020<br>12:27 PM | MEC           | 224 | Row 1, Seat 1, Table  | 15  | 105 | 211 |                         |
| 40 | 09/30/2020<br>12:29 PM | MEC           | 224 | Row 1, Seat 4, Table  | 13  | 105 | 211 |                         |
| 41 | 09/30/2020<br>12:30 PM | MEC           | 224 | Row 1, Seat 8, Table  | 7   | 105 | 211 |                         |
| 42 | 09/30/2020<br>12:31 PM | MEC           | 224 | Row 3, Seat 2, Table  | 10  | 105 | 211 |                         |
| 43 | 09/30/2020<br>12:31 PM | MEC           | 224 | Row 3, Seat 5, Table  | 7   | 105 | 211 |                         |
| 44 | 09/30/2020<br>12:32 PM | MEC           | 224 | Row 3, Seat 11, Table | 9   | 105 | 211 |                         |
| 45 | 09/30/2020<br>12:32 PM | MEC           | 224 | Row 5, Seat 3, Table  | 5   | 105 | 211 |                         |

|    |                        |              |     |                       |     |     |     |   |
|----|------------------------|--------------|-----|-----------------------|-----|-----|-----|---|
| 46 | 09/30/2020<br>12:33 PM | MEC          | 224 | Row 5, Seat 6, Table  | 6   | 105 | 211 |   |
| 47 | 09/30/2020<br>12:34 PM | MEC          | 224 | Row 5, Seat 12, Table | 8   | 105 | 211 |   |
| 48 | 09/30/2020<br>01:26 PM | Tiernan Hall | 105 | Row 1, Seat 1, Table  | 15  | 105 | 211 |   |
| 49 | 09/30/2020<br>01:26 PM | Tiernan Hall | 105 | Row 1, Seat 3, Table  | 10  | 105 | 211 |   |
| 50 | 09/30/2020<br>01:27 PM | Tiernan Hall | 105 | Row 2, Seat 1, Table  | 11  | 105 | 211 |   |
| 51 | 09/30/2020<br>01:28 PM | Tiernan Hall | 105 | Row 2, Seat 3, Table  | 15  | 105 | 211 |   |
| 52 | 09/30/2020<br>01:28 PM | Tiernan Hall | 105 | Row 2, Seat 5, Table  | 37  | 105 | 211 |   |
| 53 | 09/30/2020<br>01:29 PM | Tiernan Hall | 105 | Row 3, Seat 1, Table  | 9   | 105 | 211 |   |
| 54 | 09/30/2020<br>01:30 PM | Tiernan Hall | 105 | Row 3, Seat 3, Table  | 14  | 105 | 211 |   |
| 55 | 09/30/2020<br>01:31 PM | Tiernan Hall | 105 | Row 3, Seat 5, Table  | 7   | 105 | 211 |   |
| 56 | 09/30/2020<br>01:31 PM | Tiernan Hall | 105 | Row 4, Seat 1, Table  | 17  | 105 | 211 |   |
| 57 | 09/30/2020<br>01:32 PM | Tiernan Hall | 105 | Row 4, Seat 3, Table  | 16  | 105 | 211 |   |
| 58 | 09/30/2020<br>01:33 PM | Tiernan Hall | 105 | Row 4, Seat 5, Table  | 7   | 105 | 211 |   |
| 59 | 09/30/2020<br>01:35 PM | Tiernan Hall | 105 | Light Switch          | 20  | 105 | 211 |   |
| 60 | 09/30/2020<br>01:35 PM | Tiernan Hall | 105 | Door handle           | 30  | 105 | 211 | Classroom side                              |
| 61 | 09/30/2020<br>02:23 PM | FMH          | 408 | Light Switch          | 42  | 105 | 211 |   |
| 62 | 09/30/2020<br>02:24 PM | FMH          | 408 | Door Handle*          | 211 | 105 | 211 | Classroom Side - SARS-CoV-2<br>Sample Taken |



|    |                        |     |     |                        |     |     |     |                         |
|----|------------------------|-----|-----|------------------------|-----|-----|-----|-------------------------|
| 63 | 09/30/2020<br>02:25 PM | FMH | 408 | Row 1, Seat 1, Table   | 59  | 105 | 211 |                         |
| 64 | 09/30/2020<br>02:25 PM | FMH | 408 | Row 1, Seat 6, Table   | 21  | 105 | 211 |                         |
| 65 | 09/30/2020<br>02:26 PM | FMH | 408 | Row 1, Seat 7, Table * | 259 | 105 | 211 | SARS-CoV-2 Sample Taken |
| 66 | 09/30/2020<br>02:26 PM | FMH | 408 | Row 2, Seat 2, Table   | 21  | 105 | 211 |                         |
| 67 | 09/30/2020<br>02:27 PM | FMH | 408 | Row 2, Seat 4, Table   | 20  | 105 | 211 |                         |
| 68 | 09/30/2020<br>02:28 PM | FMH | 408 | Row 2, Seat 9, Table   | 28  | 105 | 211 |                         |
| 69 | 09/30/2020<br>02:28 PM | FMH | 408 | Row 3, Seat 1, Table   | 65  | 105 | 211 |                         |
| 70 | 09/30/2020<br>02:29 PM | FMH | 408 | Row 3, Seat 3, Table   | 26  | 105 | 211 |                         |
| 71 | 09/30/2020<br>02:30 PM | FMH | 408 | Row 3, Seat 4, Table   | 40  | 105 | 211 |                         |
| 72 | 09/30/2020<br>02:31 PM | FMH | 408 | Row 4, Seat 1, Table   | 12  | 105 | 211 |                         |
| 73 | 09/30/2020<br>02:32 PM | FMH | 408 | Row 4, Seat 3, Table   | 44  | 105 | 211 |                         |
| 74 | 09/30/2020<br>02:32 PM | FMH | 408 | Row 4, Seat 6, Table   | 22  | 105 | 211 |                         |
| 75 | 09/30/2020<br>02:33 PM | FMH | 408 | Row 5, Seat 2, Table   | 17  | 105 | 211 |                         |
| 76 | 09/30/2020<br>02:34 PM | FMH | 408 | Row 5, Seat 4, Table   | 1   | 105 | 211 |                         |
| 77 | 09/30/2020<br>02:34 PM | FMH | 408 | Row 5, Seat 9, Table   | 20  | 105 | 211 |                         |
| 78 | 09/30/2020<br>02:35 PM | FMH | 408 | Row 6, Seat 4, Table   | 1   | 105 | 211 |                         |
| 79 | 09/30/2020<br>02:37 PM | FMH | 408 | Row 7, Seat 9, Table   | 17  | 105 | 211 |                         |

|    |                        |      |      |                       |    |     |     |  |
|----|------------------------|------|------|-----------------------|----|-----|-----|--|
| 80 | 09/30/2020<br>04:26 PM | GITC | 1400 | Row 1, Seat 2, Table  | 5  | 105 | 211 |  |
| 81 | 09/30/2020<br>04:28 PM | GITC | 1400 | Row 1, Seat 8, Table  | 11 | 105 | 211 |  |
| 82 | 09/30/2020<br>04:29 PM | GITC | 1400 | Row 1, Seat 14, Table | 15 | 105 | 211 |  |
| 83 | 09/30/2020<br>04:30 PM | GITC | 1400 | Row 2, Seat 1, Table  | 0  | 105 | 211 |  |
| 84 | 09/30/2020<br>04:31 PM | GITC | 1400 | Row 2, Seat 7, Table  | 6  | 105 | 211 |  |
| 85 | 09/30/2020<br>04:32 PM | GITC | 1400 | Row2, Seat 11, Table  | 32 | 105 | 211 |  |
| 86 | 09/30/2020<br>04:32 PM | GITC | 1400 | Row 4, Seat 4, Table  | 8  | 105 | 211 |  |
| 87 | 09/30/2020<br>04:33 PM | GITC | 1400 | Row 4, Seat 10, Table | 14 | 105 | 211 |  |
| 88 | 09/30/2020<br>04:33 PM | GITC | 1400 | Row 4, Seat 14, Table | 9  | 105 | 211 |  |
| 89 | 09/30/2020<br>04:34 PM | GITC | 1400 | Row 6, Seat 1, Table  | 6  | 105 | 211 |  |
| 90 | 09/30/2020<br>04:34 PM | GITC | 1400 | Row 6, Seat 5, Table  | 9  | 105 | 211 |  |
| 91 | 09/30/2020<br>04:35 PM | GITC | 1400 | Row 6, Seat 13, Table | 4  | 105 | 211 |  |
| 92 | 09/30/2020<br>04:36 PM | GITC | 1400 | Row 8, Seat 2, Table  | 3  | 105 | 211 |  |
| 93 | 09/30/2020<br>04:36 PM | GITC | 1400 | Row 8, Seat 4, Table  | 16 | 105 | 211 |  |
| 94 | 09/30/2020<br>04:37 PM | GITC | 1400 | Row 8, Seat 11, Table | 23 | 105 | 211 |  |
| 95 | 09/30/2020<br>04:37 PM | GITC | 1400 | Row 9, Seat 4, Table  | 12 | 105 | 211 |  |
| 96 | 09/30/2020<br>04:38 PM | GITC | 1400 | Row 9, Seat 12, Table | 21 | 105 | 211 |  |

|     |                        |                   |                          |                                     |     |     |     |                          |
|-----|------------------------|-------------------|--------------------------|-------------------------------------|-----|-----|-----|--------------------------|
| 97  | 09/30/2020<br>04:40 PM | GITC              | 1400                     | Door Push Bar                       | 49  | 105 | 211 | Classroom Side           |
| 98  | 09/30/2020<br>04:41 PM | GITC              | 1400                     | Light Switch                        | 17  | 105 | 211 |                          |
| 99  | 10/01/2020<br>08:48 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer 1, Mouse                   | 21  | 105 | 211 |                          |
| 100 | 10/01/2020<br>08:50 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>005, Keyboard* | 288 | 105 | 211 | SARS-CoV-2 Sample Taken  |
| 101 | 10/01/2020<br>08:50 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>009, Mouse     | 46  | 105 | 211 |                          |
| 102 | 10/01/2020<br>08:51 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>016, Keyboard  | 64  | 105 | 211 |                          |
| 103 | 10/01/2020<br>08:52 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>032, Mouse     | 98  | 105 | 211 |                          |
| 104 | 10/01/2020<br>08:52 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>036, Keyboard  | 39  | 105 | 211 |                          |
| 105 | 10/01/2020<br>08:53 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-39,<br>Keyboard    | 94  | 105 | 211 |                          |
| 106 | 10/01/2020<br>08:54 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-43,<br>Mouse       | 77  | 105 | 211 |                          |
| 107 | 10/01/2020<br>08:54 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-63,<br>Keyboard    | 11  | 105 | 211 |                          |
| 108 | 10/01/2020<br>08:55 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-<br>060, Keyboard  | 31  | 105 | 211 |                          |
| 109 | 10/01/2020<br>08:56 AM | Houten<br>Library | 1 <sup>st</sup> Floor    | Computer CA-1047-074<br>Mouse       | 30  | 105 | 211 |                          |
| 110 | 10/01/2020<br>08:56 AM | Houten<br>Library | Lower<br>Level           | Drink Vending Machine<br>Keypad     | 44  | 105 | 211 |                          |
| 111 | 10/01/2020<br>08:59 AM | Houten<br>Library | 3 <sup>rd</sup> Floor    | Elevator Call Button<br>(Down)      | 26  | 105 | 211 |                          |
| 112 | 10/01/2020<br>08:59 AM | Houten<br>Library | 2 <sup>nd</sup><br>Floor | Elevator Call Button<br>(Down)      | 81  | 105 | 211 |                          |
| 113 | 10/01/2020<br>09:00 AM | Houten<br>Library | 2 <sup>nd</sup><br>Floor | Door Handle to Room<br>2022         | 69  | 105 | 211 | Hallway Side of the Door |

|     |                        |                          |                          |                              |     |     |     |  |
|-----|------------------------|--------------------------|--------------------------|------------------------------|-----|-----|-----|--|
| 114 | 10/01/2020<br>09:01 AM | Houten<br>Library        | 2 <sup>nd</sup><br>Floor | Stair Handrail               | 15  | 105 | 211 | Between 2 <sup>nd</sup> and 3 <sup>rd</sup> Floor<br>Landing |
| 115 | 10/01/2020<br>09:02 AM | Houten<br>Library        | 1 <sup>st</sup> Floor    | Elevator Call Button<br>(Up) | 162 | 105 | 211 | SARS-CoV-2 Sample Taken                                      |
| 116 | 10/01/2020<br>09:24 AM | Campus<br>Center         | C-Store                  | Fridge Handle 1              | 148 | 105 | 211 | SARS-CoV-2 Sample Taken                                      |
| 117 | 10/01/2020<br>09:24 AM | Campus<br>Center         | C-Store                  | Fridge Handle 2              | 24  | 105 | 211 |  |
| 118 | 10/01/2020<br>09:25 AM | Campus<br>Center         | C-Store                  | Fridge Handle 3              | 42  | 105 | 211 |  |
| 119 | 10/01/2020<br>09:26 AM | Campus<br>Center         | C-Store                  | Fridge Handle 4              | 63  | 105 | 211 |  |
| 120 | 10/01/2020<br>09:26 AM | Campus<br>Center         | C-Store                  | Fridge Handle 5              | 15  | 105 | 211 |  |
| 121 | 10/01/2020<br>09:27 AM | Campus<br>Center         | C-Store                  | Fridge Handle 6              | 45  | 105 | 211 |  |
| 122 | 10/01/2020<br>09:28 AM | Campus<br>Center         | C-Store                  | Fridge Handle 7              | 22  | 105 | 211 |  |
| 123 | 10/01/2020<br>09:28 AM | Campus<br>Center         | C-Store                  | Fridge Handle 8              | 28  | 105 | 211 |  |
| 124 | 10/01/2020<br>10:09 AM | Central King<br>Building | 116                      | Table 1, Seat 1              | 44  | 105 | 211 |  |
| 125 | 10/01/2020<br>10:09 AM | Central King<br>Building | 116                      | Table 1, Seat 3              | 34  | 105 | 211 |  |
| 126 | 10/01/2020<br>10:10 AM | Central King<br>Building | 116                      | Table 2, Seat 5              | 33  | 105 | 211 |  |
| 127 | 10/01/2020<br>10:11 AM | Central King<br>Building | 116                      | Table 2, Seat 7              | 27  | 105 | 211 |  |
| 128 | 10/01/2020<br>10:12 AM | Central King<br>Building | 116                      | Table 3, Seat 1              | 15  | 105 | 211 |  |
| 129 | 10/01/2020<br>10:12 AM | Central King<br>Building | 116                      | Table 3, Seat 3              | 19  | 105 | 211 |  |
| 130 | 10/01/2020<br>10:13 AM | Central King<br>Building | 116                      | Table 4, Seat 5              | 18  | 105 | 211 |  |

|     |                        |   |   |                 |     |     |     |   |
|-----|------------------------|---|---|-----------------|-----|-----|-----|---|
| 131 | 10/01/2020<br>10:13 AM | Central King<br>Building                  | 116                                     | Table 4, Seat 7 | 33  | 105 | 211 |   |
| 132 | 10/01/2020<br>10:14 AM | Central King<br>Building                  | 116                                     | Table 5, Seat 1 | 8   | 105 | 211 |   |
| 133 | 10/01/2020<br>10:15 AM | Central King<br>Building                  | 116                                     | Table 5, Seat 3 | 14  | 105 | 211 |   |
| 134 | 10/01/2020<br>10:16 AM | Central King<br>Building                  | 116                                     | Table 6, Seat 5 | 22  | 105 | 211 |   |
| 135 | 10/01/2020<br>10:17 AM | Central King<br>Building                  | 116                                     | Table 6, Seat 7 | 31  | 105 | 211 |   |
| 136 | 10/01/2020<br>10:17 AM | Central King<br>Building                  | 116                                     | Table 7, Seat 1 | 24  | 105 | 211 |   |
| 137 | 10/01/2020<br>10:18 AM | Central King<br>Building                  | 116                                     | Table 7, Seat 3 | 34  | 105 | 211 |   |
| 138 | 10/01/2020<br>10:19 AM | Central King<br>Building                  | 116                                     | Table 8, Seat 5 | 24  | 105 | 211 |   |
| 139 | 10/01/2020<br>10:19 AM | Central King<br>Building                  | 116                                     | Table 8, Seat 7 | 18  | 105 | 211 |   |
| 140 | 10/01/2020<br>10:21 AM | Central King<br>Building                  | 116                                     | Door 1, Handle* | 324 | 105 | 211 | Classroom Side of the door<br>Omega Requested a reclean by<br>NJIT Building Services. SARS-<br>CoV-2 Sample Taken before<br>reclean |
| 141 | 10/01/2020<br>10:21 AM | Central King<br>Building                  | 116                                     | Door 2, Handle  | 130 | 105 | 211 | Classroom Side  |
| 142 | 10/01/2020<br>10:22 AM | Central King<br>Building                  | 116                                     | Light Buttons   | 15  | 105 | 211 | Near Door 1   |
| 143 | 10/01/2020<br>10:23 AM | Central King<br>Building                  | 116                                     | Light Buttons   | 59  | 105 | 211 | Near Door 2   |
| 144 | 10/01/2020<br>10:25 AM | Central King<br>Building                  | 116                                     | Door 1, Handle  | 67  | 105 | 211 | Test No. 140 Retest   |
| 145 | 10/01/2020<br>10:43 AM | Wellness<br>Entertainment<br>Center (WEC) | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Treadmill 1     | 30  | 105 | 211 | Pre-Cleaning Sample   |

|     |                        |     |   |                                     |      |     |     |  |
|-----|------------------------|-----|---|-------------------------------------|------|-----|-----|--|
| 146 | 10/01/2020<br>10:44 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Stairmaster 2                       | 17   | 105 | 211 | Pre-Cleaning Sample                                  |
| 147 | 10/01/2020<br>10:45 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Jungle Gym Dip<br>handle*           | 1201 | 105 | 211 | Pre-Cleaning Sample                                  |
| 148 | 10/01/2020<br>10:46 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Octane Fitness<br>Treadmill 2*      | 249  | 105 | 211 | Pre-Cleaning Sample                                  |
| 149 | 10/01/2020<br>10:47 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | 15lbs dumbbell Handle               | 77   | 105 | 211 | Pre-Cleaning Sample                                  |
| 150 | 10/01/2020<br>10:48 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | 50lbs Dumbbell Handle               | 37   | 105 | 211 | Pre-Cleaning Sample                                  |
| 151 | 10/01/2020<br>10:51 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Free Weight Shoulder<br>press bench | 25   | 105 | 211 | Pre-Cleaning Sample                                  |
| 152 | 10/01/2020<br>10:52 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Adjustable Free weight<br>bench 4   | 89   | 105 | 211 | Pre-Cleaning Sample                                  |
| 153 | 10/01/2020<br>10:52 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Door Push Bar*                      | 280  | 105 | 211 | Weight room Side of the Door,<br>Pre-Cleaning Sample |
| 154 | 10/01/2020<br>10:53 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Door Handle                         | 65   | 105 | 211 | Hallway Side of the Door, Pre-<br>Cleaning Sample    |
| 155 | 10/01/2020<br>11:04 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Octane Fitness<br>Treadmill 2       | 2    | 105 | 211 | Post Cleaning Sample- Test No.<br>148 Retest         |
| 156 | 10/01/2020<br>11:10 AM | WEC | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Jungle Gym, Dip handle              | 25   | 105 | 211 | Post-Cleaning Sample- Test No.<br>147 Retest         |

|     |                        |                |   |                       |    |     |     |  |
|-----|------------------------|----------------|---|-----------------------|----|-----|-----|--|
| 157 | 10/01/2020<br>11:19 AM | WEC            | 2 <sup>nd</sup> FL<br>Fitness<br>Center | Door Push Bar         | 8  | 105 | 211 | Post-Cleaning Sample- Test No.<br>153 Retest, Fitness Center Side<br>of the Door |
| 158 | 10/01/2020<br>02:36 PM | Cullimore Hall | 104                                     | Row 1, Seat 2, Table  | 19 | 105 | 211 |  |
| 159 | 10/01/2020<br>02:36 PM | Cullimore Hall | 104                                     | Row 1, Seat 4, Table  | 2  | 105 | 211 |  |
| 160 | 10/01/2020<br>02:37 PM | Cullimore Hall | 104                                     | Row 1, Seat 10, Table | 10 | 105 | 211 |  |
| 161 | 10/01/2020<br>02:37 PM | Cullimore Hall | 104                                     | Row 3, Seat 1, Table  | 33 | 105 | 211 |  |
| 162 | 10/01/2020<br>02:38 PM | Cullimore Hall | 104                                     | Row 3, Seat 5, Table  | 4  | 105 | 211 |  |
| 163 | 10/01/2020<br>02:39 PM | Cullimore Hall | 104                                     | Row 3, Seat 8, Table  | 2  | 105 | 211 |  |
| 164 | 10/01/2020<br>02:41 PM | Cullimore Hall | 104                                     | Row 5, Seat 1, Table  | 5  | 105 | 211 |  |
| 165 | 10/01/2020<br>02:41 PM | Cullimore Hall | 104                                     | Row 5, Seat 7, Table  | 64 | 105 | 211 |  |
| 166 | 10/01/2020<br>02:42 PM | Cullimore Hall | 104                                     | Row 5, Seat 8, Table  | 6  | 105 | 211 |  |
| 167 | 10/01/2020<br>02:48 PM | Cullimore Hall | 104                                     | Row 7, Seat 2, Table  | 7  | 105 | 211 |  |
| 168 | 10/01/2020<br>02:49 PM | Cullimore Hall | 104                                     | Row 7, Seat 4, Table  | 11 | 105 | 211 |  |
| 169 | 10/01/2020<br>02:50 PM | Cullimore Hall | 104                                     | Row 7, Seat 9, Table  | 1  | 105 | 211 |  |
| 170 | 10/01/2020<br>02:52 PM | Cullimore Hall | 104                                     | Row 9, Seat 1, Table  | 2  | 105 | 211 |  |
| 171 | 10/01/2020<br>02:53 PM | Cullimore Hall | 104                                     | Row 9, Seat 5, Table  | 2  | 105 | 211 |  |
| 172 | 10/01/2020<br>02:54 PM | Cullimore Hall | 104                                     | Row 9, Seat 8, Table  | 4  | 105 | 211 |  |

|     |                        |                |     |                       |     |     |     |  |
|-----|------------------------|----------------|-----|-----------------------|-----|-----|-----|--|
| 173 | 10/01/2020<br>02:54 PM | Cullimore Hall | 104 | Row 11, Seat 1, Table | 5   | 105 | 211 |  |
| 174 | 10/01/2020<br>02:55 PM | Cullimore Hall | 104 | Row 11, Seat 2, Table | 5   | 105 | 211 |  |
| 175 | 10/01/2020<br>02:57 PM | Cullimore Hall | 104 | Door 01, Push Bar     | 26  | 105 | 211 | Classroom Side of the Door                             |
| 176 | 10/01/2020<br>03:00 PM | Cullimore Hall | 104 | Door 02, Push Bar     | 152 | 105 | 211 | Classroom Side of the Door,<br>SARS-CoV-2 Sample Taken |
| 177 | 10/01/2020<br>03:22 PM | Cullimore Hall | 106 | Door 01, Push Bar     | 4   | 105 | 211 |  |
| 178 | 10/01/2020<br>03:23 PM | Cullimore Hall | 106 | Door 02, Push Bar     | 4   | 105 | 211 |  |
| 179 | 10/01/2020<br>03:24 PM | Cullimore Hall | 106 | Row 1, Seat 1, Table  | 7   | 105 | 211 |  |
| 180 | 10/01/2020<br>03:25 PM | Cullimore Hall | 106 | Row 1, Seat 6, Table  | 9   | 105 | 211 |  |
| 181 | 10/01/2020<br>03:26 PM | Cullimore Hall | 106 | Row 1, Seat 10, Table | 14  | 105 | 211 |  |
| 182 | 10/01/2020<br>03:26 PM | Cullimore Hall | 106 | Row 3, Seat 3, Table  | 7   | 105 | 211 |  |
| 183 | 10/01/2020<br>03:27 PM | Cullimore Hall | 106 | Row 3, Seat 7, Table  | 6   | 105 | 211 |  |
| 184 | 10/01/2020<br>03:28 PM | Cullimore Hall | 106 | Row 3, Seat 9, Table  | 5   | 105 | 211 |  |
| 185 | 10/01/2020<br>03:28 PM | Cullimore Hall | 106 | Row 5, Seat 1, Table  | 6   | 105 | 211 |  |
| 186 | 10/01/2020<br>03:29 PM | Cullimore Hall | 106 | Row 5, Seat 2, Table  | 9   | 105 | 211 |  |
| 187 | 10/01/2020<br>03:29 PM | Cullimore Hall | 106 | Row 5, Seat 7, Table  | 6   | 105 | 211 |  |
| 188 | 10/01/2020<br>03:33 PM | Cullimore Hall | 106 | Row 7, Seat 1, Table  | 4   | 105 | 211 |  |
| 189 | 10/01/2020<br>03:34 PM | Cullimore Hall | 106 | Row 7, Seat 3, Table  | 5   | 105 | 211 |  |



|     |                        |                |     |                       |   |     |     |  |
|-----|------------------------|----------------|-----|-----------------------|---|-----|-----|--|
| 190 | 10/01/2020<br>03:35 PM | Cullimore Hall | 106 | Row 7, Seat 9, Table  | 4 | 105 | 211 |  |
| 191 | 10/01/2020<br>03:36 PM | Cullimore Hall | 106 | Row 9, Seat 3, Table  | 7 | 105 | 211 |  |
| 192 | 10/01/2020<br>03:37 PM | Cullimore Hall | 106 | Row 9, Seat 5, Table  | 6 | 105 | 211 |  |
| 193 | 10/01/2020<br>03:37 PM | Cullimore Hall | 106 | Row 9, Seat 8, Table  | 3 | 105 | 211 |  |
| 194 | 10/01/2020<br>03:38 PM | Cullimore Hall | 106 | Row 10, Seat 1, Table | 4 | 105 | 211 |  |
| 195 | 10/01/2020<br>03:39 PM | Cullimore Hall | 106 | Row 10, Seat 2, Table | 4 | 105 | 211 |  |
| 196 | 10/01/2020<br>03:40 PM | Cullimore Hall | 106 | Row 10, Seat 3, Table | 7 | 105 | 211 |  |
| 197 | 10/01/2020<br>03:41 PM | Cullimore Hall | 106 | Row 10, Seat 4, Table | 4 | 105 | 211 |  |

### **Field Notes**

- Seat numbering starts on the left side of the room, from the perspective of the instructor.
- Row A or 1 is the row closest to the instructor.
- All directions and labels are from the perspective of the instructor, looking towards the seats
- Due to student occupancy, surface sampling in the Life Science and Engineering Center and Kupfrain 211 could not be conducted

### **Data Interpretation:**

- 9 out of the 197 ATP representative surface samples collected had recorded in elevated ATP levels (3.6% of samples).
- 4 out of the 9 surfaces with elevated ATP levels were recleaned by NJIT Building Services and retested. Retest results indicated acceptable levels of ATP on all recleaned surfaces.
- Omega Environmental Services collected SARS-CoV-2 surface samples on the 5 surfaces, with elevated ATP levels, that were not recleaned by NJIT Building Services.
- In the Wellness Entertainment Center, the average pre-cleaning ATP concentration was 207 RLU, with 33% of samples indicating elevated ATP levels. The average post-cleaning ATP concentration was 12 RLU, with a 94.2 % decrease in ATP concentrations. No post-cleaning samples resulted in elevated levels of ATP. It should be noted, only surfaces with elevated pre-cleaning ATP concentrations were tested post-cleaning.

**Surface SARS-CoV-2 Swab Data: 9/30/20-10/1/20**

| Sample No. | SARS-CoV-2 Swab Sample Locations   | Result (Positive/Negative) |
|------------|--|----------------------------|
| .          | Kupfrain Hall, Room 206, Door Handle, Classroom Side of the Door   | Negative                   |
| 2          | Kupfrain Hall, Room 206, Light switch  | Negative                   |
| 3          | Kupfrain Hall, Room 204, Door Handle, Classroom Side of the Door   | Negative                   |
| 4          | MEC, Room 224, Left Door Handle, Classroom Side of the Door  | Negative                   |
| 5          | FMH, Room 408, Door Handle, Classroom Side of the Door   | Negative                   |
| 6          | FMH, Room 408, Row 1, Seat 7, Table  | Negative                   |
| 7          | Houten Library, 1 <sup>st</sup> Floor, Computer CA-1047-005, Mouse                                       | Negative                   |
| 8          | Houten Library, 1 <sup>st</sup> Floor Elevator Call Button (Up)  | Negative                   |
| 9          | Campus Center, 1 <sup>st</sup> Floor, C-Store, Fridge Handle 1   | Negative                   |
| 10         | Central King Building, Room 116, Door 1, Handle  | Negative                   |
| 11         | Honors College, 1 <sup>st</sup> Floor, Door Handle to Room 111 (Elevator Lobby) , Lobby Side of the Door | Negative                   |
| 12         | Redwood Hall, 1 <sup>st</sup> Floor, Door Handle to Hallway, Lobby Side of the Door                      | Negative                   |
| 13         | Oak Hall, 1 <sup>st</sup> Floor, Door Handle to Lobby, Vestibule Side of the Door                        | Negative                   |
| 14         | Laurel Hall, 1 <sup>st</sup> Floor, Door Handle to Lobby, Vestibule Side of the Door                     | Negative                   |
| 15         | Cullimore, Room 104, Door Push Bar, Classroom Side of the Door.  | Negative                   |

**SARS-CoV-2 Air Sample Data: 9/30/20-10/1/20**

| Sample No. | SARS-CoV-2 Air Sample Locations                     | Result (Positive/Negative) |
|------------|---|----------------------------|
| 1          | Kupfrain Hall, Room 211                             | Negative                   |
| 2          | WEC, 2 <sup>nd</sup> Floor Fitness Center           | Negative                   |
| 3          | MEC, Room 224                                       | Negative                   |
| 4          | Tiernan Hall, Room 105                              | Negative                   |
| 5          | FMH, Room 408                                       | Negative                   |
| 6          | Cullimore Hall, Room 104                            | Negative                   |
| 7          | GITC, Room 1400                                     | Negative                   |
| 8          | Central King Building, Room 116                     | Negative                   |
| 9          | Houten Library, 1 <sup>st</sup> Floor Computer Area | Negative                   |
| 10         | Campus Center, 1 <sup>st</sup> Floor, C-Store       | Negative                   |
| 11         | Honors College, 1 <sup>st</sup> Floor Lobby         | Negative                   |
| 12         | Laurel Hall, 1 <sup>st</sup> Floor Vestibule        | Negative                   |
| 13         | Oak Hall, 1 <sup>st</sup> Floor Vestibule           | Negative                   |
| 14         | Redwood Hall, 1 <sup>st</sup> Floor Lobby           | Negative                   |
| 15         | Cullimore Hall, Room 106                            | Negative                   |
| 16         | LSEC, Ground Floor Sitting Area                     | Negative                   |

**Data Interpretation:**

- Laboratory results indicate all the SARS-Cov-2 samples taken on 9/30/20 and 10/1/20 were negative

Attachments:

*Laboratory analysis reports with chain-of-custody  
Room Maps*

*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: 9-30-2020

Submittal date: 9-30-2020

Sample received: 10-1-2020

Samples submitted by: Kadeem Hill

Date analysis completed: October 2, 2020

Prestige Report number: 201001-02

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

| Prestige #<br>Client sample ID<br>Location                      | 2019-nCoV (N1<br>Protein) | Cycle Threshold<br>(Ct) Value <sup>3</sup><br>(N1 Protein) | 2019-nCoV<br>(N2 Protein) | Cycle Threshold<br>Value <sup>3</sup><br>(N2 Protein) | Conc. (copies of<br>RNA/mL) |
|---|---------------------------|--|---------------------------|---|-----------------------------|
| 201001-02-003<br>01<br>Kupfrain Hall, Room 206,<br>Door Handle  | ND                        | ND   | ND                        | ND  | NA                          |
| 201001-02-004<br>02<br>Kupfrain Hall, Room 206,<br>Light Switch | ND                        | ND   | ND                        | ND  | NA                          |
| 201001-02-005<br>03<br>Kupfrain Hall, Room 204,<br>Door Handle  | ND                        | ND   | ND                        | ND  | NA                          |
| 201001-02-006<br>04<br>MEC, Room 224, Door<br>Handle            | ND                        | ND   | ND                        | ND  | NA                          |
| 201001-02-009<br>07<br>FMH, Room 408, Door<br>Handle            | ND                        | ND   | ND                        | ND  | NA                          |
| 201001-02-010<br>08<br>FMH, Room 408, Row 1, Seat<br>7, Table   | ND                        | ND   | ND                        | ND  | NA                          |

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

| Prestige #<br>Client sample ID<br>Location     | 2019-nCoV (N1<br>Protein) | Cycle Threshold<br>(Ct) Value <sup>3</sup><br>(N1 Protein) | 2019-nCoV<br>(N2 Protein) | Cycle Threshold<br>Value <sup>3</sup><br>(N2 Protein) | Conc. (copies of<br>RNA/mL) |
|--|---------------------------|--|---------------------------|---|-----------------------------|
| 201001-02-007<br>05<br>Kupfrain Hall, Room 211 | ND                        | ND   | ND                        | ND  | NA                          |

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*Prestige EnviroMicrobiology, Inc.*

|   |    |    |    |    |    |
|---|----|----|----|----|----|
| 201001-02-008<br>06<br>WEC, 2 <sup>nd</sup> Floor, Workout<br>Gym | ND | ND | ND | ND | NA |
| 201001-02-011<br>09<br>MEC, Room 224                              | ND | ND | ND | ND | NA |
| 201001-02-012<br>10<br>Tiernan Hall, Room 105                     | ND | ND | ND | ND | NA |
| 201001-02-013<br>11<br>FMH, Room 408                              | ND | ND | ND | ND | NA |
| 201001-02-014<br>12<br>Culimore Hall, Room 104                    | ND | ND | ND | ND | NA |
| 201001-02-015<br>13<br>GITC, Room 1400                            | ND | ND | ND | ND | NA |
| 201001-02-016<br>14<br>CKB, Room 116                              | 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>

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Room Maps

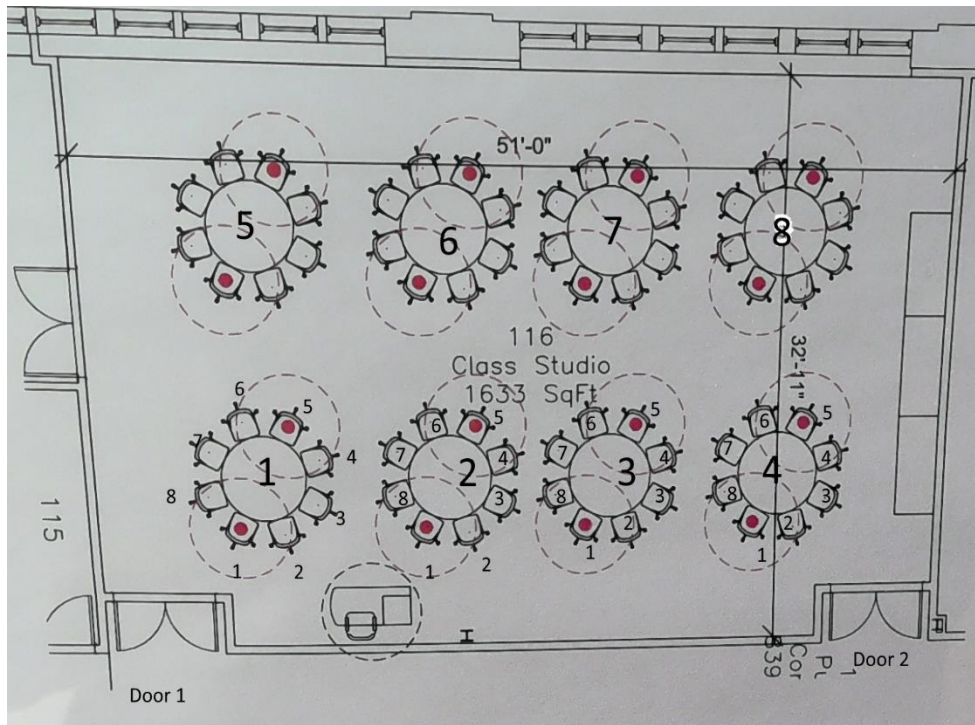


Figure 1: CKB Room 116

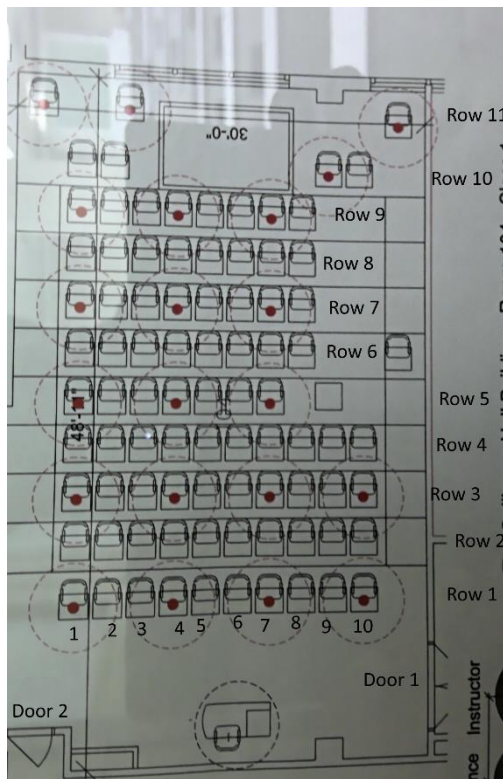


Figure 3: Cullimore Hall Room 104

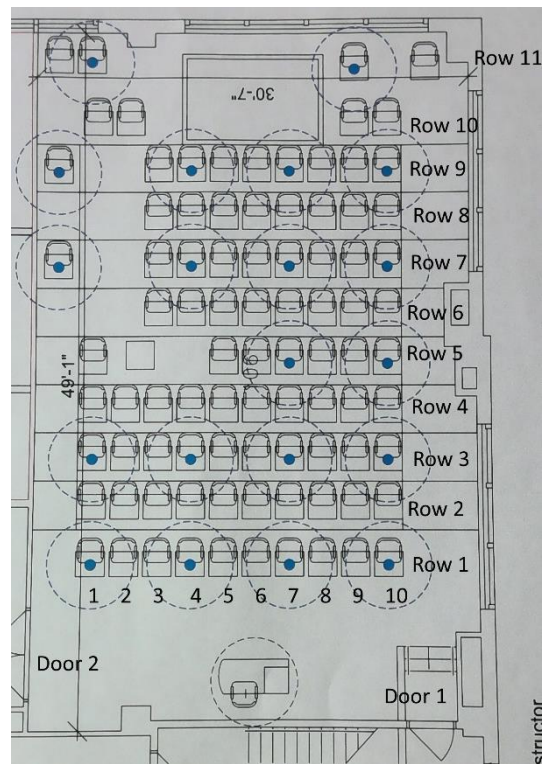


Figure 2: Cullimore Hall Room 106

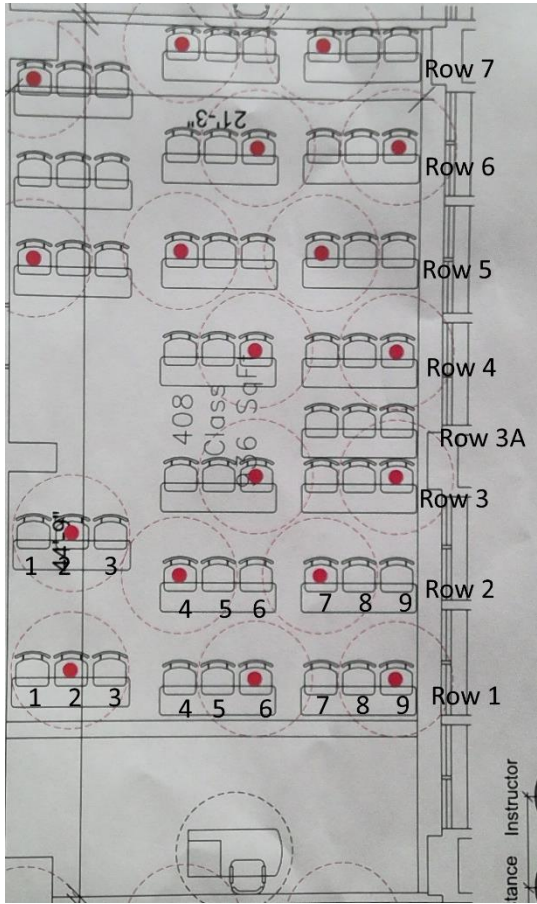


Figure 4: FMH Room 408

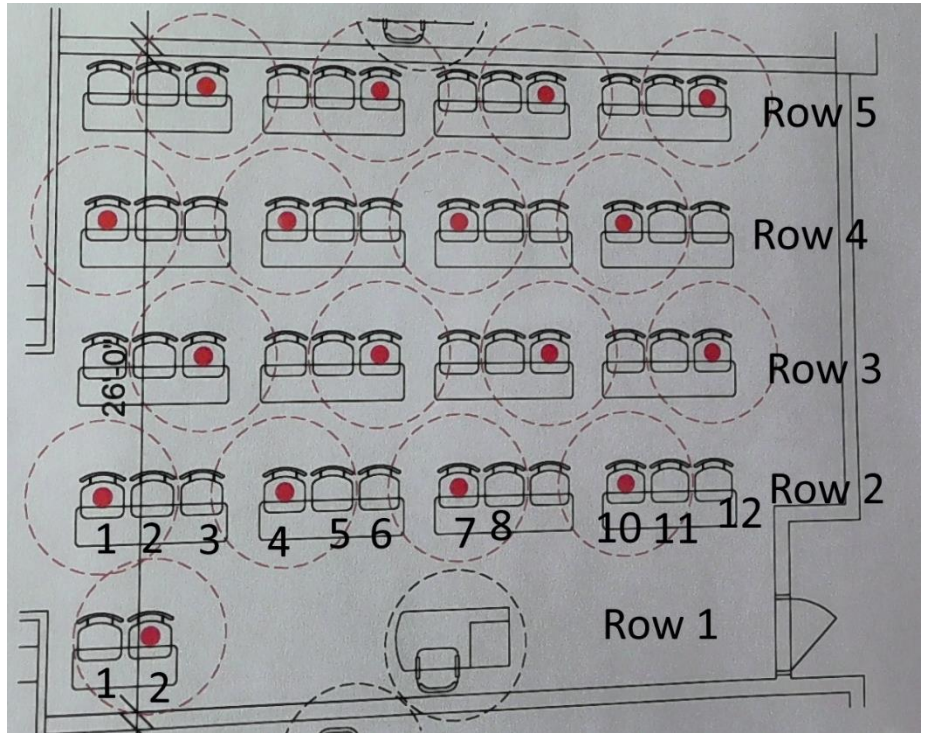


Figure 5: Kupfrain Hall Room 204

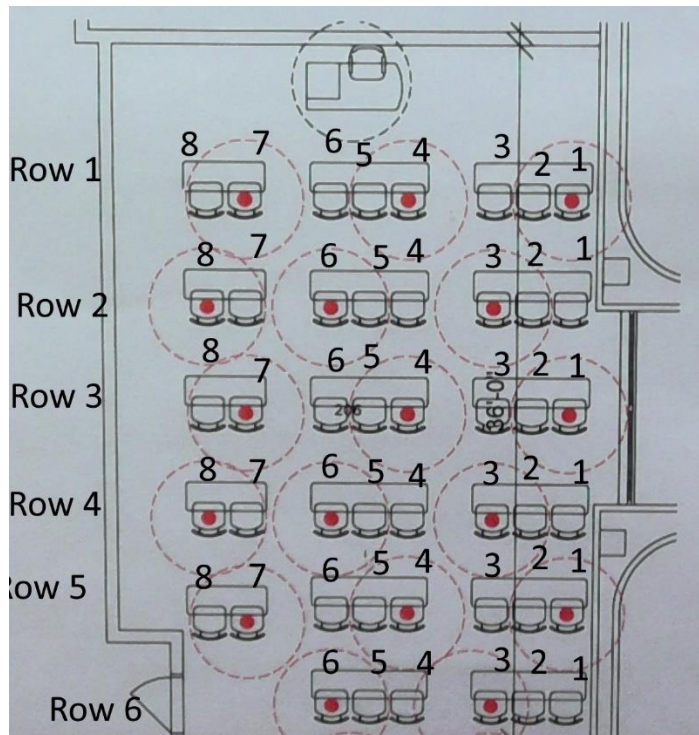


Figure 6: Kupfrain Hall Room 206

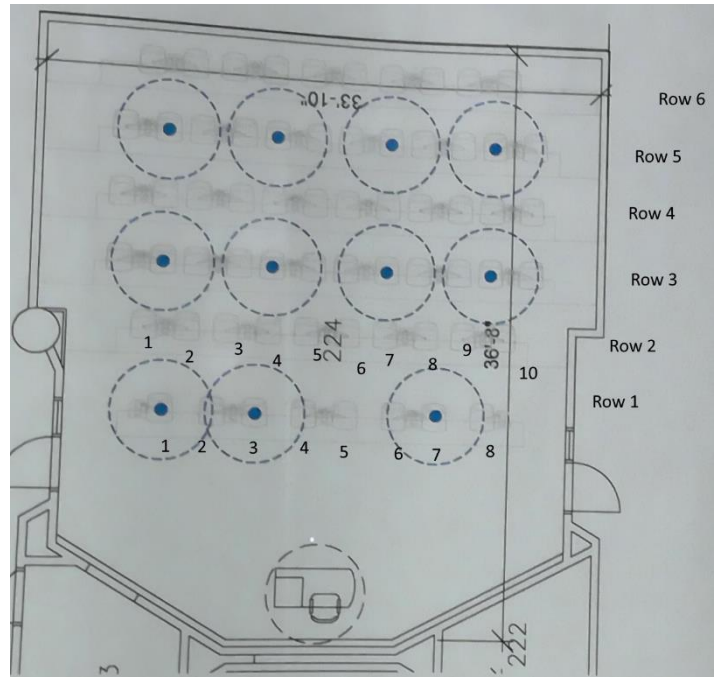


Figure 7: MEC Room 204

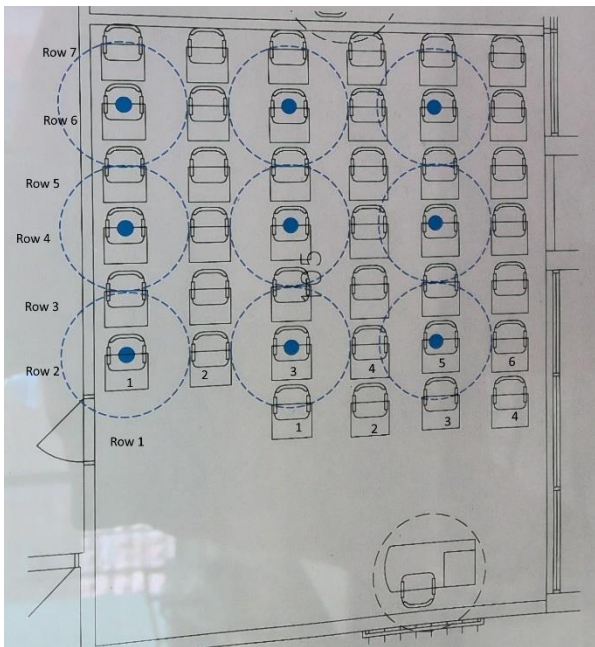


Figure 8: Tiernan Hall Room 105

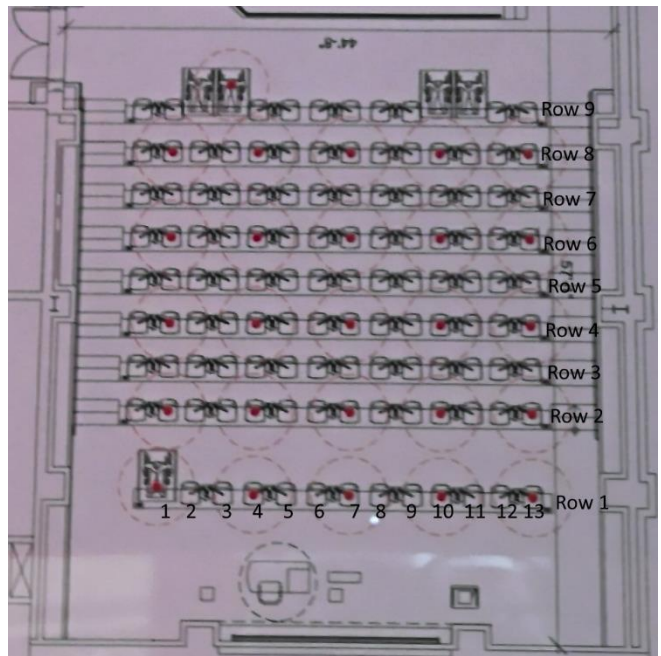


Figure 9: GITC 1400