April 23, 2019

KENNETH C. JANDA
DEAN, SCHOOL OF PHYSICAL SCIENCES

RE: April 2019 Prevalent 24/7 Air Monitoring Report for Rowland Hall

Dear Dean Janda,

The attached report from Omega Environmental, dated April 22, 2019, provides April 1 – 5, 2019 prevalent 24/7 air monitoring results for Rowland Hall, including during non-asbestos-related construction activities.

We have reviewed the report, including the air sample measurements. Based on our review, the air sample data has been determined to meet the Environmental Protection Agency (EPA) clearance criteria of 0.01 fibers per cubic centimeters of air (f/cc), which means the air quality in public spaces met or exceeded all applicable standards.

If you have any questions regarding the environmental health and safety of Rowland Hall, please don’t hesitate to contact us via phone (949.824.6889) or email (magomez@uci.edu). After hours calls may be directed to 949.824.6200.

If you have any questions regarding the construction activities on the fifth floor of Rowland Hall, please contact Design and Construction Services Senior Project Manager Chris Schneider via email (jeshne1@uci.edu).

We look forward to a safe and successful completion of the Rowland Hall fire life safety improvement project. Please let us know if you have any questions.

Sincerely,

Marc A. Gomez
Assistant Vice-Chancellor
Environmental Health and Safety

Dick T. Sun
Associate Deputy Director
Environmental Health and Safety

Attachment
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2. AIR SAMPLE RESULTS ............................................................................................. 1

## ATTACHMENT A

PCM Air Sample Results, Laboratory Accreditation and Inspectors’ Certifications
1. **EXECUTIVE SUMMARY**

The following is an air monitoring summary report for work performed at Rowland Hall, Building 400 located at the University of California, Irvine (UCI) in Irvine California. The scope of work consisted of around the clock air monitoring from Monday through Friday, including during general non-asbestos construction activities throughout the subject building.

Chris Canas, a California Certified Site Surveillance Technician (CSST #16-5978), and Jesse Sanchez, an (EPA-AHERA\(^1\) Building inspector), with Omega Environmental Services, Inc. (Omega) performed the air monitoring from April 1 through April 5, 2019. Attachment A includes copies of the air sample results, daily notes and inspectors’ certifications.

2. **AIR SAMPLE RESULTS**

Area air samples were collected at select locations in the building each work shift. The purpose of the area air monitoring was to measure the airborne fiber concentrations in the subject building. The analysis was performed using the Phase Contrast Microscopy (PCM) analytical methodology as described in National Institute for Occupational Safety and Health (NIOSH) 7400 A protocol. Omega’s representatives are NIOSH-582\(^2\) certified and analyzed the collected air samples at the site. Table 1 provides a summary of the air sample results:

<table>
<thead>
<tr>
<th>Date</th>
<th>Sample #</th>
<th>Sample Locations / Work Activity</th>
<th>Result (f/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/01/19</td>
<td>1</td>
<td>Service floor hallway / FM construction in assigned area</td>
<td>0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>2</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>3</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>4</td>
<td>Service floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>5</td>
<td>1st floor hallway / None</td>
<td>0.003</td>
</tr>
<tr>
<td>04/01/19</td>
<td>6</td>
<td>2nd floor hallway / None</td>
<td>0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>7</td>
<td>Service floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>8</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>9</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>10</td>
<td>3rd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/01/19</td>
<td>11</td>
<td>4th floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
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<td>12</td>
<td>5th floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
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<td>Service floor hallway / FM construction in assigned area</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>2</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>3</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
</tbody>
</table>

---

\(^1\) Asbestos Hazard Emergency Response Act

\(^2\) NIOSH-582 or equivalent – Individual trained to analyze samples by Phase Contrast Microscopy
<table>
<thead>
<tr>
<th>Date</th>
<th>Sample #</th>
<th>Sample Locations / Work Activity</th>
<th>Result (f/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/02/19</td>
<td>4</td>
<td>Service floor hallway / None</td>
<td>0.002</td>
</tr>
<tr>
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<td>&lt;0.002</td>
</tr>
<tr>
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<td>6</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>7</td>
<td>Service floor, hallway / Retrofit lights</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>8</td>
<td>1st floor, hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>9</td>
<td>2nd floor, hallway / Retrofit lights</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>10</td>
<td>3rd floor, hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>11</td>
<td>4th floor, hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/02/19</td>
<td>12</td>
<td>5th floor hallway / Retrofit lights</td>
<td>&lt;0.002</td>
</tr>
<tr>
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<td>&lt;0.002</td>
</tr>
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<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
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<td>&lt;0.002</td>
</tr>
<tr>
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<td>&lt;0.002</td>
</tr>
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</tr>
<tr>
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<td>&lt;0.002</td>
</tr>
<tr>
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</tr>
<tr>
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<td>8</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/03/19</td>
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</tr>
<tr>
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<td>10</td>
<td>3rd floor hallway / None</td>
<td>&lt;0.002</td>
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<td>04/03/19</td>
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</tr>
<tr>
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<td>&lt;0.002</td>
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<td>&lt;0.002</td>
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<td>04/04/19</td>
<td>6</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/04/19</td>
<td>7</td>
<td>Service floor hallway / Retrofit lights</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/04/19</td>
<td>8</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/04/19</td>
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<td>2nd floor hallway / Retrofit lights, demo fire system</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/04/19</td>
<td>10</td>
<td>3rd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/04/19</td>
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<td>4th floor hallway / Demo and install fire system</td>
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</tr>
<tr>
<td>04/04/19</td>
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<td>5th floor hallway / Retrofit lights</td>
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</tr>
<tr>
<td>04/05/19</td>
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<td>2</td>
<td>1st floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>04/05/19</td>
<td>3</td>
<td>2nd floor hallway / None</td>
<td>&lt;0.002</td>
</tr>
</tbody>
</table>

f/cc – Fibers per cubic centimeter

Based on the results of the PCM analysis, all samples were found to contain fiber concentrations less than the EPA Clearance Criteria of 0.01 f/cc.
### PCM/TEM Sample Data Sheet

<table>
<thead>
<tr>
<th>Project Number:</th>
<th>2019-3299UCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Site Address:</td>
<td>UC Irvine</td>
</tr>
<tr>
<td>Sample Date:</td>
<td>4/1/19 – 4/2/19</td>
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<tr>
<td>Analysis type:</td>
<td>PCM (NIOSH 7400A)</td>
</tr>
<tr>
<td>Analysis by:</td>
<td>Christopher Cañas and Jessie Sanchez</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>4/1/19 – 4/2/19</td>
</tr>
</tbody>
</table>

#### Sample 1
- **Sample ID:** 1
- **Sample location:** Service Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** FM Construction in assigned area
- **No of fibers:** 6
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** 0.002
- **Start time:** 0605
- **End time:** 1405
- **Other comments:**

#### Sample 2
- **Sample ID:** 2
- **Sample location:** 1st Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** None
- **No of fibers:** 4
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** <0.002
- **Start time:** 0608
- **End time:** 1408
- **Other comments:**

#### Sample 3
- **Sample ID:** 3
- **Sample location:** 2nd Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** None
- **No of fibers:** 3
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** <0.002
- **Start time:** 0610
- **End time:** 1410
- **Other comments:**

#### Sample 4
- **Sample ID:** 4
- **Sample location:** Service Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** None
- **No of fibers:** 1.5
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** <0.002
- **Start time:** 1400
- **End time:** 2200
- **Other comments:**

#### Sample 5
- **Sample ID:** 5
- **Sample location:** 1st Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** None
- **No of fibers:** 7
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** 0.003
- **Start time:** 1400
- **End time:** 2200
- **Other comments:**

#### Sample 6
- **Sample ID:** 6
- **Sample location:** 2nd Floor Hallway
- **Flow rate (LPM):** 2.5
- **Total time:** 480
- **Total volume:** 1,200
- **Work activity:** None
- **No of fibers:** 5.5
- **No of fields:** 100
- **Airborne fiber concentration (fibers/cc):** 0.002
- **Start time:** 1401
- **End time:** 2201
- **Other comments:**

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**Sample name (print):** Christopher Cañas and Jessie Sanchez

**Signature:** [Signature]

Page 1 of 2
# PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/1/19 – 4/2/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Canas and Jessie Sanchez  
**Date Analyzed:** 4/1/19 – 4/2/19

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Start time</th>
<th>End time</th>
<th>Sample location</th>
<th>Flow rate (LPM)</th>
<th>Total time</th>
<th>Total volume</th>
<th>Work activity</th>
<th>No of fibers</th>
<th>No of fields</th>
<th>Airborne fiber concentration (fibers/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>2200</td>
<td>0600</td>
<td>Service Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>3</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>8</td>
<td>2200</td>
<td>0600</td>
<td>1st Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>2.5</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>9</td>
<td>2201</td>
<td>0601</td>
<td>2nd Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>2</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>10</td>
<td>2201</td>
<td>0601</td>
<td>3rd Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>2</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>11</td>
<td>2203</td>
<td>0603</td>
<td>4th Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>3</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>12</td>
<td>2203</td>
<td>0603</td>
<td>5th Floor Hallway</td>
<td>2.5</td>
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<td>1,200</td>
<td>None</td>
<td>3.5</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
</tbody>
</table>

**Sample name (print):** Christopher Canas and Jessie Sanchez  
**Signature:** J. S.

Page 2 of 2
## PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/2/19 – 4/3/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/2/19 – 4/3/19

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Start time</th>
<th>End time</th>
<th>Sample location</th>
<th>Flow rate (LPM)</th>
<th>Total time</th>
<th>Total volume</th>
<th>Work activity</th>
<th>Airborne fiber concentration (fibers/cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0605</td>
<td>1405</td>
<td>Service Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>FM Construction in assigned area</td>
<td>&lt;0.002</td>
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<tr>
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<td>0608</td>
<td>1408</td>
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<td>1,200</td>
<td>None</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>3</td>
<td>0610</td>
<td>1410</td>
<td>2nd Floor Hallway</td>
<td>2.5</td>
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<td>1,200</td>
<td>None</td>
<td>&lt;0.002</td>
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<tr>
<td>4</td>
<td>1400</td>
<td>2200</td>
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<td>480</td>
<td>1,200</td>
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<tr>
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<td>480</td>
<td>1,200</td>
<td>None</td>
<td>&lt;0.002</td>
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</tbody>
</table>

**Sample name (print):** Christopher Cañas and Jessie Sanchez  
**Signature:** C. Cañas  
Page 1 of 3
## PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/2/19 – 4/3/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/2/19 – 4/3/19

<table>
<thead>
<tr>
<th>Sample ID: 7</th>
<th>Start time: 2200</th>
<th>End time: 0600</th>
</tr>
</thead>
</table>
| **Sample location:** Service Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** Retrofit lights  
| **No of fibers:** 5  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

<table>
<thead>
<tr>
<th>Sample ID: 8</th>
<th>Start time: 2200</th>
<th>End time: 0600</th>
</tr>
</thead>
</table>
| **Sample location:** 1st Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** None  
| **No of fibers:** 4  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

<table>
<thead>
<tr>
<th>Sample ID: 9</th>
<th>Start time: 2201</th>
<th>End time: 0601</th>
</tr>
</thead>
</table>
| **Sample location:** 2nd Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** Retrofit lights  
| **No of fibers:** 4  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

<table>
<thead>
<tr>
<th>Sample ID: 10</th>
<th>Start time: 2201</th>
<th>End time: 0601</th>
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</thead>
</table>
| **Sample location:** 3rd Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** None  
| **No of fibers:** 4  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

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<th>Sample ID: 11</th>
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<th>End time: 0603</th>
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</thead>
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| **Sample location:** 4th Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** None  
| **No of fibers:** 2.5  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

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<th>Sample ID: 12</th>
<th>Start time: 2203</th>
<th>End time: 0603</th>
</tr>
</thead>
</table>
| **Sample location:** 5th Floor Hallway | **Flow rate (LPM):** 2.5 | **Total time:** 480  
| **Total volume:** 1,200  
| **Work activity:** Retrofit lights  
| **No of fibers:** 4.5  
| **No of fields:** 100  
| **Airborne fiber concentration (fibers/cc):** <0.002 |

**Sample name (print):** Christopher Cañas and Jessie Sanchez  
**Signature:** [Signature]

Page 2 of 3
**PCM/TEM Sample Data Sheet**

<table>
<thead>
<tr>
<th>Sample ID: 13</th>
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<th>End time: *</th>
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<tbody>
<tr>
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<td>Flow rate (LPM): *</td>
<td></td>
</tr>
<tr>
<td>Total time: *</td>
<td>Total volume: *</td>
<td></td>
</tr>
<tr>
<td>Work activity:</td>
<td>No of fibers: 0</td>
<td>No of fields: 100</td>
</tr>
<tr>
<td>Other comments:</td>
<td>Airborne fiber concentration (fibers/cc): 0</td>
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<tr>
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<th>Start time: *</th>
<th>End time: *</th>
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<tr>
<td>Sample location: <strong>SEALED BLANK</strong></td>
<td>Flow rate (LPM): *</td>
<td></td>
</tr>
<tr>
<td>Total time: *</td>
<td>Total volume: *</td>
<td></td>
</tr>
<tr>
<td>Work activity:</td>
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</tr>
<tr>
<td>Other comments:</td>
<td>Airborne fiber concentration (fibers/cc): 0</td>
<td></td>
</tr>
</tbody>
</table>

Sample name (print): Christopher Cañas and Jessie Sanchez
Signature: [Signature]

Page 3 of 3
## PCM/TEM Sample Data Sheet

### Project Number:
2019-3299UCI

### Project Site Address:
UC Irvine

### Sample Date:
4/3/19 – 4/4/19

### Analysis type:
PCM (NIOSH 7400A)

### Analysis by:
Christopher Cañas and Jessie Sanchez

### Date Analyzed:
4/3/19 – 4/4/19

<table>
<thead>
<tr>
<th>Sample ID: 1</th>
<th>Start time: 0605</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Sample location: Service Floor Hallway</td>
<td>Flow rate (LPM): 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total time: 480</td>
<td>Total volume: 1,200</td>
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<tr>
<td>Work activity: FM Construction in assigned area</td>
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**Other comments:**

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<th>Start time: 0608</th>
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<tbody>
<tr>
<td>Sample location: 1st Floor Hallway</td>
<td>Flow rate (LPM): 4</td>
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<td></td>
<td>Total time: 480</td>
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</tr>
<tr>
<td>Work activity: None</td>
<td>No of fibers: 4.5</td>
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**Other comments:**

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<tbody>
<tr>
<td>Sample location: 2nd Floor Hallway</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Total time: 480</td>
<td>Total volume: 1,200</td>
</tr>
<tr>
<td>Work activity: None</td>
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**Other comments:**

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<td></td>
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**Other comments:**

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</tr>
<tr>
<td></td>
<td>Total time: 480</td>
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</tr>
<tr>
<td>Work activity: None</td>
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<tr>
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**Other comments:**

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<tr>
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</tr>
<tr>
<td></td>
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<tr>
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<td>Airborne fiber concentration (fibers/cc): &lt;0.002</td>
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**Sample name (print):** Christopher Cañas and Jessie Sanchez

**Signature:**

Page 1 of 5
## PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/3/19 – 4/4/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/3/19 – 4/4/19

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<tr>
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<td>480</td>
<td>1,200</td>
<td>4</td>
<td>100</td>
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<tr>
<td>8</td>
<td>2200</td>
<td>0600</td>
<td>2.5</td>
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<tr>
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<td>480</td>
<td>1,200</td>
<td>3.5</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
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<td>2201</td>
<td>0601</td>
<td>2.5</td>
<td>480</td>
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<td>4</td>
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<td>&lt;0.002</td>
</tr>
<tr>
<td>11</td>
<td>2202</td>
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<td>480</td>
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<td>4</td>
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<td>&lt;0.002</td>
</tr>
<tr>
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<td>2.5</td>
<td>100</td>
<td>&lt;0.002</td>
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</tbody>
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**Sample name (print):** Christopher Cañas and Jessie Sanchez  
**Signature:**

Page 2 of 3
# PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/3/19 – 4/4/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/3/19 – 4/4/19  

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<td>Sample location: <strong>FIELD BLANK</strong></td>
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<td>Work activity:</td>
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<tr>
<td>Other comments:</td>
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</tr>
<tr>
<td></td>
<td>Airborne fiber concentration (fibers/cc): 0</td>
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<table>
<thead>
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<tbody>
<tr>
<td>Sample location: <strong>SEALED BLANK</strong></td>
<td>Flow rate (LPM): *</td>
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</tr>
<tr>
<td>Work activity:</td>
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</tr>
<tr>
<td>Other comments:</td>
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</tr>
<tr>
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<td>Airborne fiber concentration (fibers/cc): 0</td>
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## PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/4/19 – 4/5/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/4/19 – 4/5/19

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<th>End time</th>
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<th>Total time</th>
<th>Total volume</th>
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<th>No of fields</th>
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<tr>
<td>1</td>
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<td>1405</td>
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<td>480</td>
<td>1,200</td>
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<tr>
<td>2</td>
<td>0608</td>
<td>1408</td>
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<td>0610</td>
<td>1410</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>4</td>
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<td>&lt;0.002</td>
</tr>
<tr>
<td>4</td>
<td>1400</td>
<td>2200</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>1.5</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>5</td>
<td>1400</td>
<td>2200</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>3</td>
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<td>&lt;0.002</td>
</tr>
<tr>
<td>6</td>
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<td>480</td>
<td>1,200</td>
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</table>

Sample name (print): Christopher Cañas and Jessie Sanchez  
Signature: [Signature Image]  
Pages 1 of 3
# PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/4/19 – 4/5/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/4/19 – 4/5/19

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<th>Sample ID</th>
<th>Start Time</th>
<th>End Time</th>
<th>Flow Rate (LPM)</th>
<th>Total Time</th>
<th>Total Volume</th>
<th>Work Activity</th>
<th>No. of Fibers</th>
<th>No. of Fields</th>
<th>Airborne Fiber Concentration (fibers/cc)</th>
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<tr>
<td>7</td>
<td>2200</td>
<td>0600</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>Retrofit lights</td>
<td>5</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>8</td>
<td>2200</td>
<td>0600</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>None</td>
<td>4</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>9</td>
<td>2201</td>
<td>0601</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>Retrofit lights, demo fire systems</td>
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<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>10</td>
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<td>0601</td>
<td>2.5</td>
<td>480</td>
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<td>100</td>
<td>&lt;0.002</td>
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<tr>
<td>11</td>
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<td>480</td>
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<td>Demo and install of fire system</td>
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<td>Retrofit lights</td>
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</table>

Sample name (print): Christopher Cañas and Jessie Sanchez  
Signature: [Signature Image]  
Page 2 of 3
## PCM/TEM Sample Data Sheet

**Project Number:** 2019-3299UCI  
**Project Site Address:** UC Irvine  
**Sample Date:** 4/4/19 – 4/5/19  
**Analysis type:** PCM (NIOSH 7400A)  
**Analysis by:** Christopher Cañas and Jessie Sanchez  
**Date Analyzed:** 4/4/19 – 4/5/19

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<tbody>
<tr>
<td>Sample location: FIELD BLANK</td>
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</tr>
<tr>
<td>Work activity:</td>
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<td></td>
<td>Airborne fiber concentration (fibers/cc): 0</td>
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<tr>
<td>Other comments:</td>
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<th>Sample ID: 14</th>
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<td>Sample location: SEALED BLANK</td>
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<td>Total time: *</td>
</tr>
<tr>
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<td>Work activity:</td>
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## PCM/TEM Sample Data Sheet

### Project Information
- **Project Number:** 2019-3299UCI
- **Project Site Address:** UC Irvine
- **Sample Date:** 4/5/19
- **Analysis type:** PCM (NIOSH 7400A)
- **Analysis by:** Christopher Cañas and Jessie Sanchez
- **Date Analyzed:** 4/5/19

### Sample Data

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<th>Sample location</th>
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<th>Total time</th>
<th>Total volume</th>
<th>Work activity</th>
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<tbody>
<tr>
<td>1</td>
<td>0605</td>
<td>1405</td>
<td>Service Floor Hallway</td>
<td>2.5</td>
<td>480</td>
<td>1,200</td>
<td>FM Construction in assigned area</td>
<td>2</td>
<td>100</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>2</td>
<td>0608</td>
<td>1408</td>
<td>1st Floor Hallway</td>
<td>2.5</td>
<td>480</td>
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<td>&lt;0.002</td>
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<td>0610</td>
<td>1410</td>
<td>2nd Floor Hallway</td>
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<td>0</td>
</tr>
</tbody>
</table>

### Other comments:

---

Sample name (print) : Christopher Cañas and Jessie Sanchez
Signature : [Signature]

Page 1 of 1
| Time: 0530 | Omega Representative Christopher Cañas on site. FM Construction is continuing work on the service level and will be installing HVAC ductwork in B66, B70, B85, and B93. Jesse has now been relieved; pumps are running as intended with new cassettes. There are no samples to be analyzed at this time. |
| Time: 0800 | Daily walkthrough with Chris Schneider (PM), Javier Vasquez (BNB), Susan Robb (EH&S), and Christopher Cañas (Omega IH). The SOP was discussed and agreed by all parties for the day. No asbestos work is expected to be performed during the first and second shift – air samples will also run continuously for 24 hours this week. |
| Time: 0920 | Checked on Pumps; they are operating as intended. Checked on work; FM construction is in designated areas. |
| Time: 1110 | Met Susan Robb of EH&S with the purpose to review work that has been performed thus far. |
| Time: 1330 | Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done. |
| Time: 1540 | New PCM cassettes have been placed on a set of new pumps. They will run continuously into Jesse’s shift and are expected to be picked up around 2200. PCM cassettes were read on site via NIOSH 7400 Method and determined to be below PEL. Sample results were first sent via text to Susan Robb, Jeremy Gress, Rito Rincon, and Navid Salar. They confirmed the readings and afterwards posted results in the 1st floor lobby near the elevators. |
| Time: 1600 | Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done. |
| Time: 1800 | Jesse Sanchez of Omega is now on site and will review the days scope of work with Christopher Cañas before he is relieved. |
| Time: 1835 | Omega Representative Christopher Cañas reviewed project details with Jesse Sanchez and is now leaving site. Will return tomorrow at 0600. |
Daily Field Log

Project Number: 2019-3299UCI
Project Name: 24/7
Project Address: Rowland Hall UCI Irvine, CA
Client Contact:
Client Phone #:
Date: 04/01/2019

Omega Representative: Chris Canas & Jesse Sanchez

TIME AND ACTIVITY

1800 At this time Omega Rep. Jesse Sanchez arrive on site to begin today's work shift. Chris Canas shift has ended for today. Low flow air pump has been set up at 1400 during the 1st shift. Air samples will run for 8 hours 2.5 LPM.

Scope of work: Cosco + BNB will be working on the 2nd floor removing tiles to install new system + electricians

Will be working on the 5th floor working directly under the light ballests without removing any ceiling tiles.

1900 At this time no construction work is occurring, but throughout the hallways there are students walking in and out of classrooms. No work around the samples.

2000 At this time no issues to report, students continue to move around the hallways on each floor. No construction work occurring at this time.

2100 Student continue to roam around the hallways near the air samples, no issues to report. There is no work around the samples or concerns with the samples during students walking throughout the hallways.

2200 At this time Cosco + BNB arrive on site to begin their work shift. Omega confirms with supervisors they will be working on the service level, 2nd floor, and the 5th floor. BNB will be removing ceiling tiles starting on the 2nd floor to expose the concrete ceiling. Cosco will come in and demo old fire system and install new system.

Electricians will be on the 5th floor working directly under the light ballests on replacing the lights without removing any ceiling tiles or working above ceiling. Omega set up next set of samples.

2300 At this time no issues to report, work continues to move forward, less movement throughout the hallways.

Cosco + BNB continue to drill into the concrete ceiling on the 2nd floor to install new fire system.

2430 At this time movement throughout the hallways is still low, no issues to report, cosco started working close to the samples, so Omega move air samples to different locations.

0130 At this time activities have not changed, Cosco + BNB continue to work on the 2nd floor + Cosco have some

Workers on the service level moving equipment around to the 2nd floor.

Omega Site Representative Signature: Chris Canas and Jesse Sanchez

Date: 04/01/2019
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<tbody>
<tr>
<td>0230</td>
<td>At this time not that much movement throughout the hallways there are no students throughout the hallways. Work has not changed; electricians have not touched any ceiling tiles.</td>
</tr>
<tr>
<td>0330</td>
<td>Omega does not observe any issues at this time. Work has not changed.</td>
</tr>
<tr>
<td>0430</td>
<td>No issues to be reported at this time, scope of work has not changed. Work still continue on the same floors within The clear areas where there is no ACM present.</td>
</tr>
<tr>
<td>0530</td>
<td>Cosco + BNB continue to work installing new fire system + drilling into the clean concrete. No movement Throughout the hallways except on the 5th floor, which consisted of electricians working directly under the light Ballets.</td>
</tr>
<tr>
<td>0600</td>
<td>At this time Omega Rep. Jesse’s shift has ended for today. Chris Canas has arrived on site, pumps have been Rotated with a new batch of samples.</td>
</tr>
</tbody>
</table>

Omega Site Representative Signature: Chris Canas & Jesse Sanchez

Date: 04/01/2019
### Project Information
- **Project Number:** 2019-3299UCI
- **Date:** 04/02/2019
- **Project Name:** 24/7
- **Project Address:** Rowland Hall UCI Irvine, CA
- **Client Contact:**
- **Client Phone #:**
- **Omega Representative:** Chris Canas & Jesse Sanchez

### TIME AND ACTIVITY

<table>
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<tr>
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<tr>
<td>1800</td>
<td>Omega Rep. Jesse Sanchez arrives on site to begin 1800 shift. Chris Canas gives a brief breakdown of the activities. That occurred throughout the day. At this time samples have been changed at 1400 and will be demobilized at 2200.</td>
</tr>
<tr>
<td>1900</td>
<td>At this time there are students throughout the hallways. Air samples are not affected by any activities.</td>
</tr>
<tr>
<td>2000</td>
<td>Omega walk each floor to check on air samples.</td>
</tr>
<tr>
<td>2100</td>
<td>Omega complete walk through, hallways area clear from any work activities and students are still walking throughout the hallways.</td>
</tr>
<tr>
<td>2200</td>
<td>At this time BNB, Cosco + MEC arrive on site. Scope of work: BNB will be assisting Cosco with demo on the service level + BNB will be working on the 5th floor stairwell demoing ceiling plaster. Cosco will be working on the 2nd floor demoing old system. MEC will be working on TSI glove bag abatement in room B38. At this time Omega demobilize set of samples and set up new batch.</td>
</tr>
<tr>
<td>2230</td>
<td>At this time Omega begin to read the air samples from 2nd shift using NIOSH 7400 method.</td>
</tr>
<tr>
<td>2325</td>
<td>Omega complete reading the air samples and prepare paperwork to send off to Omega Navid Salari + UCI Reps.</td>
</tr>
<tr>
<td>2430</td>
<td>At this time BNB 2 man crew move to the 5th floor to start work on the ceiling plaster at the stairwell.</td>
</tr>
<tr>
<td>0130</td>
<td>Work continues to move forward no issues to report at this time.</td>
</tr>
<tr>
<td>0230</td>
<td>No activities throughout the hallways, samples are away from any work from Cosco + BNB.</td>
</tr>
<tr>
<td>0330</td>
<td>Low flow pumps are still running at 2.5 LPM. No issues to report at this time, Cosco + BNB continue to work within cleared areas away from the air samples.</td>
</tr>
<tr>
<td>0400</td>
<td>Omega walks the building floors.</td>
</tr>
<tr>
<td>0530</td>
<td>Omega returns, Cosco + BNB continue to work in assigned areas, low flow air samples continue to pull at 2.5 LPM.</td>
</tr>
<tr>
<td>0600</td>
<td>At this time Omega Rep. Jesse Sanchez shift has ended, Chris Canas on site samples have been rotated.</td>
</tr>
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**Omega Site Representative Signature:** Chris Canas & Jesse Sanchez  
**Date:** 04/02/2019
Field Notes

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<td>Christopher Cañas</td>
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0530: Omega Representative Christopher Cañas on site. FM Construction is continuing work on the service level and will be installing HVAC ductwork in B66, B70, B85, and B93. Jesse has now been relieved, pumps are running as intended with new cassettes. The previous shift samples were analyzed by 7am and below PEL. Results have been posted by Omega on the first floor by the elevators.

0630: EH&S requested Omega to run air samples in the men and women's restroom located on the 5th floor. Samples were set at 0600 and will run for approximately 2 hours. Afterwards, another set will be placed for 4 hours during peak activity of the restrooms. Finally, once all samples have finished, they will be analyzed on site and reported to EH&S.

0800: Daily walkthrough with Chris Schneider (PM), Javier Vasquez (BNB), Susan Robb (EH&S), and Christopher Cañas (Omega IH). The SOP was discussed and agreed by all parties for the day. No asbestos work is expected to be performed during the first and second shift - air samples will also run continuously for 24 hours this week.

0920: Checked on Pumps; they are operating as intended. Checked on work; FM construction is in designated areas.

1110: Met Susan Robb of EH&S to discuss all work for the day including the samples that were set in the 5th floor restrooms. The final set of samples in the 5th floor restrooms were analyzed at 1430 and below PEL.

1250: Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done.

1500: New PCM cassettes have been placed on a set of new pumps. They will run continuously into Jesse's shift and are expected to be picked up around 2200. PCM cassettes were read on site via NIOSH 7400 Method and determined to be below PEL. Sample results were first sent via text to Susan Robb, Jeremy Gress, Rito Rincon, and Navid Salari. They confirmed the readings and afterwards posted results in the 1st floor lobby near the elevators.

1700: Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done.

1800: Jesse Sanchez of Omega is now on site and will review the days scope of work with Christopher Cañas before he is relieved.

1835: Omega Representative Christopher Cañas reviewed project details with Jesse Sanchez and is now leaving site. Will return tomorrow at 0600.

Omega IH Signature: [Signature]
Omega Environmental Services, Inc.
4570 Campus Drive, Suite 30
Newport Beach, California 92660
Phone: (949) 252-2145, Fax: (949) 252-2148

Daily Field Log
Page # 01 of 02

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**TIME AND ACTIVITY**


Activities during his shift. At this time samples have been placed on the service, 1st, and 2nd floor. Samples will be

Demobilized at 2200 + a new batch of samples will be set up. Chris Canas off site.

1900  At this time after walking each floor, there is no work around the samples. Throughout the hallways there are

Students walking in and out of classrooms.

2030  Low flow air pumps continue to pull at 2.5 LPM. No issues to report at this time.

2200  At this time BNB + Cosco arrive on site to begin their work shift today. BNB will assist Cosco demo old fire

System on the service floor + old pipes in room B38. Cosco will continue to install new fire system on the 2nd floor.

Another contractor will also retrofit new lights on the 5th floor. Air samples have been rotated out and set up

Throughout each floor to cover every work activity above and below.

2300  At this time work continues to move forward, Cosco continue to install new system on the 2nd floor + retrofit

Is still underway on the 5th floor. No issue to report at this time.

2400  Omega walks the building.

0130  Omega returns, no work activities around the samples. There’s no work throughout the hallways, also there are

No more students going in and out of the classrooms.

0230  At this time Cosco continue to demo + install fire system on the 2nd floor.

0330  Omega requested Cosco to close ceiling tiles on the 2nd floor, Cosco had two ceiling tiles half open. Cosco were

Drilling into drywall to complete installing pipes for the new fire system. Cosco closed the ceiling in the hallway

In front of room 275. Cosco open the ceiling one more time to complete the pipe installment, Omega requested

Poly on the floor + proper clean-up if any dust was found on the floor. No tiles were removed only lifted to

Complete the work. Air samples was moved to a different area

0430  At this time work continues to move forward, no issues to report. Cosco continue to install new system.

0600  Omega begin to demobilize air samples + set a new batch on the service, 1st, and 2nd floor. Chris Canas is

Omega Site Representative Signature: Jesse Sanchez & Chris Canas

Date: 04/03/2019
On-site to continue the next work shift.
0530: Omega Representative Christopher Cañas on site. FM Construction is continuing work on the service level and will be installing HVAC ductwork in B66, B70, B85, and B93. Jesse has now been relieved, pumps are running as intended with new cassettes. The previous shift samples were analyzed by 7am and below PEL. Results have been posted by Omega on the first floor by the elevators.

0735: Abatement was performed in room B38 on 4/2 (3rd shift), but work was stopped due to the contractor finding fireproofing that wasn’t included in their scope of work. EH&S Susan R. requested Omega to take samples accordingly. Work has yet again been stopped in this room; BNB will stop work until proper authorization/clearance is given.

0800: Daily walkthrough with Chris Schneider (PM), Javier Vasquez (BNB), Susan Robb (EH&S), and Christopher Cañas (Omega IH). The SOP was discussed and agreed by all parties for the day. No asbestos work is expected to be performed during the first and second shift – air samples will also run continuously for 24 hours this week.

0920: Checked on Pumps; they are operating as intended. Checked on work; FM construction is in designated areas.

1110: Met Susan Robb of EH&S and she was able to provide results for the fireproofing. Results indicated that the fireproofing in room b38 was None Detect. BNB may now continue work in their designated area tonight.

1250: Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done.

1500: New PCM cassettes have been placed on a set of new pumps. They will run continuously into Jesse’s shift and are expected to be picked up around 2200. PCM cassettes were read on site via NIOSH 7400 Method and determined to be below PEL. Sample results were first sent via text to Susan Robb, Jeremy Gress, Rito Rincon, and Navid Salari. They confirmed the readings and afterwards posted results in the 1st floor lobby near the elevators.

1700: Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done.

1800: Jesse Sanchez of Omega is now on site and will review the days scope of work with Christopher Cañas before he is relieved.

1835: Omega Representative Christopher Cañas reviewed project details with Jesse Sanchez and is now leaving site. Will return tomorrow at 0600.
Omega Environmental Services, Inc.
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Daily Field Log

Date: 04/04/2019

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**TIME AND ACTIVITY**

**1800** Omega Rep. Jesse arrives on-site to begin shift 1800 – 0600. Omega Rep. Chris Canas briefs Jesse on the activities that occurred during his shift. Low flow samples are running at 2.5 LPM, samples are on the service floor – 2nd Floor. Samples started a 1400 and will be demobilized at 2200.

**1805** Omega Rep. Chris Canas off site at this time. Omega walks throughout the building visually checking the air samples + any activities occurring at the time.

**1930** Omega complete visual on each floor. There is no work on any of the floors, students are walking in and out of Classrooms throughout the hallways. No concerns regarding air samples.

**2100** At this time there is still no work going on, students continue to walk throughout the hallways. Low flow air Pumps continue pull at 2.5 LPM.

**2200** At this time Cosco arrives on-site to start their work shift. Scope of work: Demo of old fire system on the service floor, installing + repair of fire system on the 2nd floor, retrofit new lights on the 4th floor.

**2230** Omega walk each floor.

**2350** Omega returns from visual, no work on the 1st, 3rd, or 5th floor. Service floor work is being done within clear areas some work occurring in the hallway on the 2nd floor consisting of pipes no contact with the ceiling or near air samples. On the 4th floor retrofit activities is occurring throughout the hallways, but no work above ceilings only directly under light ballest.

**0100** No issues to report at this time, no changes to any activities occurring on each floor.

**0200** Work continues to move forward, no issues to report at this time, PPC will be arriving soon to start their work shift.

**0300** PPC arrives on site to start their work shift. Scope of work: PPC will work on duct work on the service level.

**0400** At this time there is no issues to report, work continues to move forward.

**0500** No change in work, no work throughout the hallways.

Omega Site Representative Signature: Jesse Sanchez & Chris Canas

Date: 04/04/2019
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Omega Site Representative Signature: Jesse Sanchez & Chris Canas

Date: 04/04/2019
**Field Notes**

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0800: Daily walkthrough with Chris Schneider (PM), Javier Vasquez (BNB), Susan Robb (EH&S), and Christopher Cañas (Omega IH). The SOP was discussed and agreed by all parties for the day. No asbestos work is expected to be performed during the first and second shift – air samples will also run continuously for 24 hours this week.

0920: Checked on Pumps; they are operating as intended. Checked on work; FM construction is in designated areas.

1000: Lunch

1250: Checked on Pumps; they are operating as intended. Checked on work; no construction work is being done.

1440: Sample results are below PEL and were sent via text to Susan Robb, Jeremy Gress, Rito Rincon, and Navid Salari to review. They confirmed the readings and afterwards posted results in the 1st floor lobby near the elevators.

1505: Omega Representative Christopher Cañas is now leaving site. Will return Monday at 0600.

---

Omega IH Signature: [Signature]

---
State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Christopher E Canas
Name
Certification No. 16-5978
Expires on 08/16/19

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7160 et seq. of the Business and Professions Code.
Asbestos Training Program

This is to certify

Christopher Canas

****

Has successfully completed 40 hours of formal training entitled

NIOSH 582 Equivalency

Presented By
Environmental Compliance Training
PO BOX 16555
San Diego, CA. 92176
(858) 558-7465

Director: Walter T. Amenta, CIH

Class Dates: 12/11/2017 to 12/15/2017
Expiration Date: N/A
Certification Number: 1217N582E-02
Certificate of Attendance

This is to Certify that

JESSE SANCHEZ

Has Completed the Course of

AHERA ASBESTOS ABATEMENT CONTRACTOR/SUPERVISOR 8 HR. REFRESHER COURSE CA-014-04

UNDER TSCA 206, FOR PURPOSES OF COMPLIANCE WITH 29 CFR 1926.1101 AND TITLE 8 CCR 1529 AND TITLE 8 CCR 5208.

ARMANDO DUQOING
DIRECTOR

August 31, 2018 COMPLETION DATE E083118CSR 083118 CLASS NUMBER / STARTING DATE August 31, 2019 CERTIFICATE EXPIRES

Ecologics Training Institute

Certificate of Attendance

This is to Certify that

JESSE SANCHEZ

Has Completed the Course of

AHERA ASBESTOS ABATEMENT BUILDING INSPECTOR 4 HR. REFRESHER COURSE CA-014-06

UNDER TSCA 206, FOR PURPOSES OF COMPLIANCE WITH 29 CFR 1926.1101 AND TITLE 8 CCR 1529 AND TITLE 8 CCR 5208.

ARMANDO DUQUING
DIRECTOR

August 17, 2018
COMPLETION DATE

E081718BIR 081718
CLASS NUMBER / STARTING DATE

August 17, 2019
CERTIFICATE EXPIRES

Ecologics Training Institute
ECOLOGICS Training Institute

Certificate of Attendance

Certificate Number 32297

Has Completed the Course of

JESSE SANCHEZ

This is to certify that

September 21, 2018

ARMANDO DUCOING

Director

Certificate Expires

Class Number / Starting Date
E091718NOSH

Completion Date
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TITL E 6 CCR 1510 AND TITL E 8 CCR 3500

UNDER 1910.14, FOR PURPOSES OF COMPLIANCE WITH 29 CCR 1910.110 AND

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