

**ENVIRONMENTAL AIRBORNE AEROSOL ANALYSIS**

Client Name : EXAMPLE REPORT

Client Project # : ABC-123

Project : Bioaerosol analysis

EAA Project# : 06-1050

Date Collected : 01/16/06

| Client Sample# | Sample Description / Location | Analysis Comments  |
|----------------|-------------------------------|--|
| 1050-1         | Room #618: at supply diffuser | High paint opaque (paint) particle and fiberglass fiber concentrations |
| 1050-2         | Room #619                     | Elevated penicillium mold spore and skin cell fragment concentrations  |
| 1050-3         | Outside front door            | Moderate outdoor assemblage of mold spores                             |
| 1050-4         | Main office lobby             | Low bioaerosol concentrations  |
| 1050-5         | Hallway, wing 800             | Low bioaerosol concentrations, high opaque & fiberglass particles      |

**AIRBORNE MOLD SPORE CONCENTRATIONS (Cts./m<sup>3</sup>) -- Spore Trap Sample Analysis**

| Category  | Sample # --> | 1050-1     | 1050-2       | 1050-3      | 1050-4              | 1050-5      |
|---|--------------|------------|--------------|-------------|---------------------|-------------|
| <b>Total Mold Spores (Cts/m<sup>3</sup>)</b>      |              | <b>889</b> | <b>14083</b> | <b>8667</b> | <b>1250</b>         | <b>1250</b> |
| Alternaria  |              | 83         | 83           |             | 83                  |             |
| Aspergillus/Penicillium                           |              | 194        | 12083        | 667         | 750                 | 750         |
| Aureobasidium pullans                             |              |            |              | 83          |                     |             |
| Ascospores  |              | 111        | 250          | 1583        |                     | 83          |
| Basidiospores                                     |              |            | 167          | 2750        | 167                 | 167         |
| Botrytis  |              |            |              | 83          |                     |             |
| Chaetomium  |              |            |              | 83          |                     |             |
| Cladosporium                                      |              | 278        | 667          | 2417        | 167                 | 83          |
| Curvularia  |              |            | 83           |             |                     |             |
| Drechslera/Bipolaris                              |              | 28         | 83           | 83          |                     |             |
| Epicoccum   |              | 28         |              | 167         |                     |             |
| Fusarium  |              |            |              |             |                     |             |
| Nigrospora  |              |            |              |             |                     |             |
| Oidium/Peronospora                                |              |            |              |             |                     |             |
| Pithomyces  |              |            |              |             |                     |             |
| Rusts   |              |            |              | 167         |                     |             |
| Smuts / Myxomycetes                               |              | 83         |              | 83          |                     | 83          |
| Stachybotrys                                      |              |            |              |             |                     |             |
| Stemphylium                                       |              |            |              | 83          |                     |             |
| Torula  |              |            |              |             |                     |             |
| Ulocladium  |              |            |              |             |                     |             |
| Other Hyaline Fungi                               |              |            |              |             |                     |             |
| Other Fungi                                       |              |            |              |             |                     |             |
| Unidentified Fungi                                |              | 83         | 667          | 417         | 83                  | 83          |
| Hyphae fragments                                  |              |            |              |             |                     |             |
| Algal spores                                      |              |            |              | 167         |                     |             |
| Fern spores                                       |              |            |              |             |                     |             |
| <b>POLLEN (Total cts/m<sup>3</sup>)</b>           |              | <b>9</b>   | <b>27</b>    | <b>267</b>  | <b>not detected</b> | <b>13</b>   |
| Not specified                                     |              | 4          | 13           | 40          |                     | 13          |
| Ambrosia (ragweed)                                |              | 4          | 13           | 133         |                     |             |
| Gramineae (grass)                                 |              |            |              | 67          |                     |             |
| Pine / pine look-alikes                           |              |            |              | 27          |                     |             |
| <b>OTHER AEROSOLS (cts/m<sup>3</sup>)</b>         |              |            |              |             |                     |             |
| Skin cell fragments                               |              | 83         | 25833        | 167         | 7083                | 10000       |
| Fiberglass / mineral wool                         |              | 222        | 250          |             |                     | 2083        |
| Cellulosic fibers                                 |              | 56         | 558          | 575         | 358                 | 1667        |
| Opaque particles                                  |              | 28         |              | 83          |                     | 250         |
| Other   |              | 556        | 4167         | 12500       | 16667               | 833         |
| <b>Statistical Parameters</b>                     |              |            |              |             |                     |             |
| Vol. analyzed (m <sup>3</sup> )--mold/aerosols:   |              | 0.036      | 0.012        | 0.012       | 0.012               | 0.012       |
| Detect limit(Cts/m <sup>3</sup> )--mold/aerosols: |              | 27.8       | 83.3         | 83.3        | 83.3                | 83.3        |
| % sample analyzed--mold / aerosols:               |              | 16%        | 16%          | 16%         | 16%                 | 16%         |
| Volume analyzed (m <sup>3</sup> )--pollen:        |              | 0.225      | 0.075        | 0.075       | 0.075               | 0.075       |
| Detection limit (Cts/m <sup>3</sup> )--pollen:    |              | 4.4        | 13.3         | 13.3        | 13.3                | 13.3        |
| Sample flow rate (lpm):                           |              | 15.0       | 15.0         | 15.0        | 15.0                | 15.0        |
| Sample trace length (mm):                         |              | 15.00      | 15.00        | 15.00       | 15.00               | 15.00       |
| Microscope field diameter (mm):                   |              | 0.240      | 0.240        | 0.240       | 0.240               | 0.240       |

Analyst review signature: *Daniel M. Baxter*

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