



April 11, 2012

Patrick Holmes  
Associate Manager  
Juneau I, LLC  
645 G Street, Suite 100-604  
Anchorage, AK 99501

Dear Mr. Holmes,

Suite 210 DOL Building Sampling, Remodel & Mold Abatement Summary

As part of an ongoing investigation of indoor air quality concerns and complaints in Suite 210, Juneau I elected to remove and replace interior finishes (including vinyl cove base, carpet, drywall, ceiling tiles, vapor barrier) and abate moisture or mold impacted insulation, studs, and plywood sheathing from Suite 210. Overall, there was very little mold growth observed. The total area of mold contamination found on the back of the wall board was less than 4 square feet which equates to 0.3% of the removed wall board in Suite 210. The wall board, insulation, and studs were found to be dry, which indicates the growth was likely from water intrusion prior to the siding replacement project in 2007.

Samples for mold in indoor air prior to and after the remodel and abatement activities indicate the levels and types of mold in the indoor air in Suite 210 are similar to or lower than those found in the outdoor air and to non-complaint areas from earlier sampling events indicating amplification of mold in indoor air is not an issue in Suite 210. These results are further supported by the limited amount of mold growth observed during the remodel and abatement activities.

Sampling for volatile organic compounds (VOCs) in air was completed prior to and after the remodel and abatement work in Suite 210. The results indicate detected VOC concentrations are below Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) indicating VOCs are present at acceptable levels protective of employee health.

CDI conducted real-time monitoring for relative humidity, particulates (PM<sub>10</sub>), carbon dioxide (CO<sub>2</sub>), and temperature prior to, during, and after the remodel and abatement work in Suite 210. The real-time monitoring showed low relative humidity in Suite 210 at times which could lead to discomfort and complaints by employees. The real-time monitoring showed acceptable levels of CO<sub>2</sub> in Suite 210 at all times, indicating that CO<sub>2</sub> is not accumulating at unacceptable levels. The real-time monitoring indicated particulates are present at acceptable levels protective of employee health. The real-time monitoring showed temperatures within the recommended ranges.



## Suite 210 DOL Building Remodel & Mold Abatement

- 1) **Site Preparation:** Albarn Construction built containment around Suite 210 in preparation for the remodel and abatement activities. The enclosure was lined with two layers of 6-mil polyethylene sheeting and two negative-air machines with HEPA filtration were set up to create a negative pressure enclosure.
- 2) **Material Removal – Vinyl Cove Base, Carpet:** The vinyl cove base and carpet were removed.
- 3) **Material Removal – Drywall and Vapor Barrier:** The wall board was removed and the back of the wall board was inspected for signs of mold growth. Overall, there was very little mold growth observed. The total area of mold contamination found on the back of the wall board was less than 4 square feet which equates to 0.3% of the removed wall board (1,248 sq ft) in Suite 210. The wall board was dry, which indicates the growth was likely from water intrusion prior to the siding replacement project in 2007. Areas where mold growth was seen are as follows:
  - In two areas on the east wall and three areas along the south wall, a patch of mold approximately 1 inch by 4 inches was noted on the back of the wall board along the bottom plate. All such areas were located under windows.
  - In one area on the east wall and one area on the south wall, an area of light mold staining of approximately 1 square foot was identified.

The vapor barrier was found to be intact in all areas of the wall system and was removed.

**Material Removal – Insulation and Studs:** Fiberglass insulation was intact, dry, and in good condition. Sheathing and wall framing (studs) were tested for moisture content and found to be dry. All areas measured less than 10% moisture, which is low, particularly in a damp climate like Southeast Alaska. Some areas showed staining from contact with sheathing that had likely experienced water damage before the siding replacement project in 2007. Insulation around windows and stained insulation was removed.

One area of framing under a window on the east side showed signs of past water damage that had affected the strength of the wood (this area was dry during the inspection). During the siding replacement project in 2007, additional studs had been added to take the load of the damaged stud. With the wall board removed, Albarn Construction took the opportunity to remove the damaged wood and replace it with new, clean wood.

- 4) **Inspection:** Upon completion of the above material removal, representatives of the State of Alaska joined Carson Dorn, Inc. and Albarn Construction to inspect the project.



- 5) **Material Removal – Ceiling Tiles:** Ceiling tiles were removed and the above-ceiling space was inspected for any signs of water intrusion. It appears that in this area of the building, water intrusion had not occurred through the ceiling.

Flexible ducting serving supply air ducts was inspected at this time. Some of the flex ducting showed signs of wear so it was removed and replaced with new flex ducting. All louvers to supply ducts were opened to allow good air flow into Suite 210.

Metal ducting was inspected and was found to be clean and in good condition.

- 6) **Cleanup:** After the ceiling and ducts had been inspected, each wall section was inspected and all stained or dirty insulation was discarded. Final cleanup included HEPA vacuuming all materials and surfaces left in place.
- 7) **Build-Back:** The studs and interior side of the sheathing were sprayed with a light coating of encapsulating sealant to lock down any fibers or particles remaining on the surface of the wood. After the encapsulant had dried, the walls were re-insulated and a new vapor barrier was installed. New wall board was hung, mudded, taped, and painted. New ceiling tiles and diffusers were installed and the carpet, vinyl cove base, and heaters were replaced.

### Sampling for Airborne Mold

Sampling for airborne mold was completed prior to, during, and after the remodel and abatement work in Suite 210. On March 2, 2012 CDI collected one air sample for airborne mold in Suite 210. On March 6-9, 2012 CDI collected four air samples (one per day) for airborne mold outside of the Suite 210 containment to verify the efficacy of the containment. On April 3, 2012 CDI collected one air sample for airborne mold in Suite 210.

Air samples were collected using Allergenco-D<sup>TM</sup> cassettes (37-mm diameter) using a 120 volt AC high volume sampling pump (primary calibrated in the field) to draw 15 liters of air per minute for 10 minutes per sample. The samples were analyzed by ALS Environmental using Method MC-AN-001. Fungal spore counts were determined using plain light microscopy under 630x magnification. 100% of the entire sample slide was read. Individual spherical spores lacking any distinguishing characteristics may be grouped and classified under the category “Amerospores.” Total fungal spore particulate concentrations include both viable and non-viable counts. The calculated total count is based on the trace length and microscopic field diameter, as recommended and described as correct methodology by the manufacturer of the spore trap cassette. Individual spore counts greater than 400 are based on estimates, due to the higher density rating.

The genus of the mold spores and total spore counts for each sample, as well as the airborne concentration in spore counts/cubic meter, is provided in the analytical report (enclosed herewith). The test results provide an indication of the genus of mold but do not differentiate the species of mold within the particular genus. Air results are summarized in Table 1. The results



indicate the levels and types of fungi in the indoor air are similar to or lower than those found in the outdoor air and to non-complaint areas from earlier sampling events indicating amplification of mold in indoor air is not an issue in Suite 210. These results are further supported by the limited amount of mold growth observed during the remodel and abatement activities.

## Sampling for VOCs and Microbial VOCs

Sampling for VOCs in air was completed prior to and after the remodel and abatement work in Suite 210. On March 2, 2012 CDI collected one air sample for VOCs in Suite 210. On March 27, 2012 CDI collected one air sample for airborne mold in Suite 210.

VOC air samples were collected using 6-liter summa canisters calibrated to draw air over a 24 hour period. The VOC air samples were analyzed by ALS Environmental using EPA Method TO-15. VOC air results are summarized in Table 2. The results indicate detected concentrations of these VOCs are below Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) indicating VOCs are present at acceptable levels protective of employee health.

## Other Indoor Air Quality Sampling

CDI conducted real-time monitoring for relative humidity, particulates (PM<sub>10</sub>), carbon dioxide (CO<sub>2</sub>), and temperature prior to, during, and after the remodel and abatement work in Suite 210.

- **Prior to Remodel & Abatement Work (2/29/12 – 3/2/12):** The relative humidity in the Suite 210 ranged from 19.2% to 34.7%, PM<sub>10</sub> ranged from 0 mg/m<sup>3</sup> to 0.109 mg/m<sup>3</sup>, CO<sub>2</sub> ranged from 181 ppm to 672 ppm, and temperature ranged from 65.7°F to 72.5°F.
- **During Remodel & Abatement Work (3/5/12-3/15/12):** The relative humidity outside Suite 210 containment ranged from 13.7% to 38.4%, PM<sub>10</sub> ranged from 0 mg/m<sup>3</sup> to 0.069 mg/m<sup>3</sup>, CO<sub>2</sub> ranged from 120 ppm to 884 ppm, and temperature ranged from 62.6°F to 77°F.
- **After Remodel & Abatement Work (4/4/12-4/6/12):** The relative humidity in the Suite 210 ranged from 22.6% to 36.1%, PM<sub>10</sub> ranged from 0 mg/m<sup>3</sup> to 0.122 mg/m<sup>3</sup>, CO<sub>2</sub> ranged from 185 ppm to 642 ppm, and temperature ranged from 54.0°F to 73.4°F.

There is no “ideal” humidity level suitable for all building occupants. The American Society of Heating, Refrigerating and Air-conditioning Engineers Inc. (ASHRAE) recommends humidity levels range from 20% to 60% year-round. Low relative humidity can lead to complaints of dry nose, throat, eyes, and skin. Elevated relative humidity can promote the growth of mold, bacteria, and dust mites, which can aggravate allergies and asthma. The real-time monitoring showed low relative humidity in Suite 210 at times which could lead to discomfort and complaints by employees.

The outdoor level of carbon dioxide is usually from 300 parts per million to 400 parts per million (ppm). If indoor carbon dioxide levels are more than 1,000 ppm (ASHRAE), there is probably



inadequate ventilation; and complaints such as headaches, fatigue, and eye and throat irritation may be prevalent. An elevated carbon dioxide level is an indication of an inadequate amount of outside air being brought into a building. The real-time monitoring showed acceptable levels of CO<sub>2</sub> in Suite 210 at all times, indicating that CO<sub>2</sub> is not accumulating at unacceptable levels.

Particulates can be classified as either respirable (less than 5 microns in diameter) or non-respirable. Respirable particles can penetrate into the lower lung and can cause damage. Non-respirable particles are trapped in the upper respiratory system and can cause irritation. The USEPA National Ambient Air Quality Standard (NAAQS) recommends that particulates 2.5 micrometers to 10 micrometers in diameter (PM<sub>10</sub>) be maintained at less than 150 micrograms of particulates per cubic meter of air (ug/m<sup>3</sup>). The real-time monitoring indicates particulates are present at acceptable levels protective of employee health.

There is no "ideal" temperature suitable for all building occupants. ASHRAE recommends that indoor temperatures in the winter be maintained between 68 degrees and 75 degrees and temperatures in the summer should be maintained between 73 degrees and 79 degrees. The real-time monitoring showed temperatures within the recommended ranges.

Please feel free to call with any questions.

Regards,

Jolene Cox  
Environmental Professional  
Carson Dorn, Inc.

Enclosures



| Table 1. Air Sample Summary<br>Suite 210 – Department of Labor Building, Juneau, Alaska<br>March-April, 2012 |                                 |                                        |
|--------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|
| Sample ID                                                                                                    | Sample Location                 | Total Spore<br>(count/m <sup>3</sup> ) |
| Ste 210 Pre-Rem                                                                                              | Suite 210 –                     |                                        |
|                                                                                                              | Total Spores                    | 35                                     |
|                                                                                                              | Amerospores                     | 14                                     |
|                                                                                                              | Basidiospores                   | 7                                      |
|                                                                                                              | <i>Cladosporium</i>             | 7                                      |
|                                                                                                              | Smuts/Myxomycetes               | 7                                      |
| AS-OC-3-6-12                                                                                                 | Outside Containment Suite 210 – |                                        |
|                                                                                                              | Total Spores                    | 21                                     |
|                                                                                                              | Amerospores                     | 21                                     |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | NA                                     |
|                                                                                                              | Smuts/Myxomycetes               | NA                                     |
| AS-OC-3-7-12                                                                                                 | Outside Containment Suite 210 – |                                        |
|                                                                                                              | Total Spores                    | 7                                      |
|                                                                                                              | Amerospores                     | 7                                      |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | NA                                     |
|                                                                                                              | Smuts/Myxomycetes               | NA                                     |
| AS-OC-3-8-12                                                                                                 | Outside Containment Suite 210 – |                                        |
|                                                                                                              | Total Spores                    | 14                                     |
|                                                                                                              | Amerospores                     | 7                                      |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | NA                                     |
|                                                                                                              | Smuts/Myxomycetes               | 7                                      |
| AS-OC-3-9-12                                                                                                 | Outside Containment Suite 210 – |                                        |
|                                                                                                              | Total Spores                    | 14                                     |
|                                                                                                              | Amerospores                     | 7                                      |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | 7                                      |
|                                                                                                              | Smuts/Myxomycetes               | NA                                     |
| Ste 210 Post-Rem                                                                                             | Suite 210 –                     |                                        |
|                                                                                                              | Total Spores                    | 1                                      |
|                                                                                                              | Amerospores                     | NA                                     |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | 1                                      |
|                                                                                                              | Smuts/Myxomycetes               | NA                                     |
| AS-10                                                                                                        | Outside Air –                   |                                        |
|                                                                                                              | Total Spores                    | 6                                      |
|                                                                                                              | Amerospores                     | 3                                      |
|                                                                                                              | Basidiospores                   | NA                                     |
|                                                                                                              | <i>Cladosporium</i>             | 2                                      |
|                                                                                                              | Smuts/Myxomycetes               | 1                                      |



Table 2. VOC Air Sampling Summary  
Suite 210 – Department of Labor Building, Juneau, Alaska  
March-April, 2012

| Sample ID          | Sample Location            | Detected Concentration (ppb) | OSHA PELs (ppb)   |
|--------------------|----------------------------|------------------------------|-------------------|
| AS1-210DOL-3-1-12  | Suite 210 – Center of room |                              |                   |
|                    | Dichlorodifluoromethane    | 0.27                         | $1.0 \times 10^6$ |
|                    | Chloromethane              | 0.27                         | $1.0 \times 10^5$ |
|                    | Freon 11                   | 0.17                         | $1.0 \times 10^6$ |
|                    | Acetone                    | 2.7                          | $1.0 \times 10^6$ |
|                    | Carbon disulfide           | 0.26                         | $2.0 \times 10^4$ |
|                    | Hexane                     | 0.87                         | $5.1 \times 10^5$ |
|                    | Benzene                    | 2.2                          | $1.0 \times 10^4$ |
|                    | Toluene                    | 1.2                          | $2.0 \times 10^5$ |
| AS2-210DOL-3-27-12 | Suite 210 – Center of room |                              |                   |
|                    | Dichlorodifluoromethane    | 0.4                          | $1.0 \times 10^6$ |
|                    | Chloromethane              | 0.45                         | $1.0 \times 10^5$ |
|                    | Freon 11                   | 0.18                         | $1.0 \times 10^6$ |
|                    | Acetone                    | 3.1                          | $1.0 \times 10^6$ |
|                    | Methylene chloride         | 1.7                          | $2.5 \times 10^4$ |
|                    | Trichloroethene            | 1.8                          | $1.0 \times 10^5$ |
|                    | Toluene                    | 0.22                         | $2.0 \times 10^5$ |



Photograph 1. Interior of containment in preparation for the remodel and abatement activities.



Photograph 2. Removal of wallboard and inspection for signs of mold growth.





Photograph 3. Example patch of mold noted on the back of wall board along the bottom plate of south wall.



Photograph 4. Area of mold approximately 1 square foot from south wall.



Photograph 5. Insulation around windows and stained insulation was removed.



Photograph 6. Area of stud framing under window on east side showed sign of past water damage that had affected the strength of wood.



Photograph 7. Damaged stud section removed and replaced with new wood.



Photograph 8. Ceiling tiles removed and the above-ceiling space was inspected for water intrusion.



Photograph 9. Flexible ducting and metal ducting was inspected.



Photograph 10. View of example interior wall after final HEPA vacuuming of all materials and surfaces left in place prior to build-back.





Photograph 11. View of east and south interior walls after final HEPA vacuuming of all materials and surfaces left in place prior to build-back.



Photograph 12. View of example interior wall after final HEPA vacuuming of all materials and surfaces left in place prior to build-back.



Photograph 13. View of example interior wall after spray encapsulant.



Photograph 24. View of south wall and ceiling after spray encapsulant.



Photograph 35. View of east wall and ceiling after spray encapsulant.



Photograph 46. View of east wall after reinstallation of insulation and vapor barrier.





Photograph 57. View of east and south wall and after installation of new dry wall.



Photograph 68. View of east wall after installation mud and tape of new dry wall.





Photograph 79. View of interior after painting of new dry wall.



Photograph 20. View of interior during installation of new carpet and ceiling tiles.



Photograph 21. View of finished interior.



Photograph 22. View of finished interior.



## ANALYTICAL REPORT

Report Date: March 19, 2012

Jolene Cox  
Carson Dorn, Inc.  
712 West 12th St  
Juneau, AK 99801

Phone: 907 586 4447  
Fax: 907 586 5917  
E-mail: jcox@carsondorn.com

Workorder: **34-1207543**

Project ID: DOL BLDG 031512

Purchase Order: DOL BLDG

| Client Sample ID | Lab ID     | Receive Date   | Analysis Date  | Sampling Site |
|------------------|------------|----------------|----------------|---------------|
| Ste 210 Pre-Pem  | 1207543001 | March 15, 2012 | March 19, 2012 | DOL BLDG      |
| AS-OC-3-6-12     | 1207543002 | March 15, 2012 | March 19, 2012 | DOL BLDG      |
| AS-OC-3-7-12     | 1207543003 | March 15, 2012 | March 19, 2012 | DOL BLDG      |
| AS-OC-3-8-12     | 1207543004 | March 15, 2012 | March 19, 2012 | DOL BLDG      |
| AS-OC-3-9-12     | 1207543005 | March 15, 2012 | March 19, 2012 | DOL BLDG      |

This report contains results of analyses performed by ALS Environmental pertaining to the sample(s) referenced above. ALS Environmental is AIHA accredited for specified Fields of Testing as documented by the scope of accreditation. The Mycology laboratory manager and analysts hold at least a B.S. degree in Microbiology or equivalent discipline, and are well qualified and experienced with microbial identification.

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# ANALYSIS DATA SHEET

## Spore Trap Analysis

Workorder: **34-1207543**

Client: Carson Dorn, Inc.

Method: MC-AN-001

Matrix: Spore Trap

|                                |                 |              |              |
|--------------------------------|-----------------|--------------|--------------|
| Lab Sample ID                  | 1207543001      | 1207543002   | 1207543003   |
| Client Sample ID               | Ste 210 Pre-Pem | AS-OC-3-6-12 | AS-OC-3-7-12 |
| Density Rating                 | 3               | 3            | 2            |
| Total Volume (L)               | 151             | 150          | 151          |
| Total Volume (m <sup>3</sup> ) | 0.151           | 0.15         | 0.151        |

| Summary Results    | Analyst Count | Count/m <sup>3</sup> | Analyst Count | Count/m <sup>3</sup> | Analyst Count | Count/m <sup>3</sup> |
|--------------------|---------------|----------------------|---------------|----------------------|---------------|----------------------|
| Pollen             | 0             | NA                   | 0             | NA                   | 0             | NA                   |
| Mycelial Fragments | 0             | NA                   | 0             | NA                   | 0             | NA                   |

| Results             | Analyst Count | Spore Count/m <sup>3</sup> | Analyst Count | Spore Count/m <sup>3</sup> | Analyst Count | Spore Count/m <sup>3</sup> |
|---------------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------------|
| Amerospores         | 2             | 14                         | 3             | 21                         | 1             | 7                          |
| Basidiospores       | 1             | 7                          | 0             | NA                         | 0             | NA                         |
| <i>Cladosporium</i> | 1             | 7                          | 0             | NA                         | 0             | NA                         |
| Smuts/Myxomycetes   | 1             | 7                          | 0             | NA                         | 0             | NA                         |
| Total Spores        | 5             | 35                         | 3             | 21                         | 1             | 7                          |

### Analysis Method - MC-AN-001

Method Used: Samples are analyzed under plain light microscopy with the aide of appropriate staining techniques and visualized under 630x magnification. The density rating of the sample is estimated by visual observation. 100% of the entire slide is read. Spore particulate concentrations are calculated utilizing trace length and microscopic field diameter as recommended by the manufacturer of the spore trap cassette. All microscopists hold at least a B.S. degree in Microbiology or equivalent discipline.

Adrian A. Gallardo

Analyst

Peter P. Steen

Peer Review



# ANALYSIS DATA SHEET

## Spore Trap Analysis

Workorder: **34-1207543**

Client: Carson Dorn, Inc.

Method: MC-AN-001

Matrix: Spore Trap

|                                |              |              |
|--------------------------------|--------------|--------------|
| Lab Sample ID                  | 1207543004   | 1207543005   |
| Client Sample ID               | AS-OC-3-8-12 | AS-OC-3-9-12 |
| Density Rating                 | 1            | 1            |
| Total Volume (L)               | 149          | 150          |
| Total Volume (m <sup>3</sup> ) | 0.149        | 0.15         |

| Summary Results    | Analyst Count | Count/m <sup>3</sup> | Analyst Count | Count/m <sup>3</sup> |
|--------------------|---------------|----------------------|---------------|----------------------|
| Pollen             | 0             | NA                   | 0             | NA                   |
| Mycelial Fragments | 0             | NA                   | 0             | NA                   |

| Results             | Analyst Count | Spore Count/m <sup>3</sup> | Analyst Count | Spore Count/m <sup>3</sup> |
|---------------------|---------------|----------------------------|---------------|----------------------------|
| Amerospores         | 1             | 7                          | 1             | 7                          |
| Basidiospores       | 0             | NA                         | 0             | NA                         |
| <i>Cladosporium</i> | 0             | NA                         | 1             | 7                          |
| Smuts/Myxomycetes   | 1             | 7                          | 0             | NA                         |
| Total Spores        | 2             | 14                         | 2             | 14                         |

### Analysis Method - MC-AN-001

Method Used: Samples are analyzed under plain light microscopy with the aide of appropriate staining techniques and visualized under 630x magnification. The density rating of the sample is estimated by visual observation. 100% of the entire slide is read. Spore particulate concentrations are calculated utilizing trace length and microscopic field diameter as recommended by the manufacturer of the spore trap cassette. All microscopists hold at least a B.S. degree in Microbiology or equivalent discipline.

Adrian A. Gallardo

Analyst

Peter P. Steen

Peer Review



## ANALYSIS DATA SHEET

### Spore Trap Analysis

Workorder: **34-1207543**

Client: Carson Dorn, Inc.

Method: MC-AN-001

Matrix: Spore Trap

#### Method Summary

ALS Method MC-AN-001 is used to determine fungal spore counts using plain light microscopy under 630x magnification. 100% of the entire sample slide is read. Individual spherical spores lacking any distinguishing characteristics may be grouped and classified under the category "Amerospores." Total fungal spore particulate concentrations include both viable and non-viable counts. The calculated total count is based on the trace length and microscopic field diameter, as recommended and described as correct methodology by the manufacturer of the spore trap cassette. Individual spore counts greater than 400 are based on estimates, due to the higher density rating.

#### Sample Preparation

The analytical slide is removed from the spore trap cassette and mounted on a supportive glass slide, which is then prepared for viewing by the use of appropriate microbiological stains.

#### Density Rating

The density rating is based on a visual observation of the non-spore particulate that can mask the presence of fungal spores. Excessive non-spore particulate may make it difficult to produce accurate results and therefore, the following scale is used to assist in the interpretation of the results.

| <u>Density Rating</u> | <u>Observation</u>             | <u>Interpretation</u>                                   |
|-----------------------|--------------------------------|---------------------------------------------------------|
| 0                     | No particulate detected        | May indicate improper sampling or blank                 |
| 1                     | Minimal particulate present    | Analysis is optimal                                     |
| 2                     | Minor particulate present      | Fair analytical conditions                              |
| 3                     | Sufficient particulate present | May affect analysis accuracy                            |
| 4                     | Abundant particulate present   | Analysis may not accurately reflect spore concentration |
| 5                     | Severely occluded              | Sample is not acceptable for analysis                   |

#### Sample Calculation

Fungal spore concentrations in spores/m<sup>3</sup> were determined from the following equation:

$$\frac{\text{Spore Count} \left( \frac{14.4}{\text{Microscopic Field Diameter Number of Transverses}} \right)}{\text{Sample Volume m}^3} = \text{Spore Concentration (spores/m}^3\text{)}$$

Where: Microscopic Field Diameter is equal to 0.28 mm under 630x magnification; and Number of Transverses at 630x magnification has been determined at an average of 48 fields.

#### Comments

None



## ANALYSIS DATA SHEET

### Spore Trap Analysis

Workorder: **34-1207543**

**Client:** Carson Dorn, Inc.

**Method:** MC-AN-001

**Matrix:** Spore Trap

### POTENTIAL INDOOR AIR QUALITY MOLDS

Certain molds found in high concentrations in indoor environments may indicate the presence of an indoor air quality concern. These molds include but are not limited to the following groups:

*Alternaria*

*Aspergillus/Penicillium*

*Chaetomium*

*Paecilomyces*

*Pithomyces/Ulocladium*

*Stachybotrys*

### COMMON OUTDOOR MOLDS

Certain molds commonly found outdoors can be found indoors in moderate amounts and may or may not necessarily indicate a potential indoor air quality concern. Some of these groups include but are not limited to:

*Ascospores*

*Amerospores*

*Basidiospores*

*Bipolaris/Dreschlera*

*Cladosporium*

*Epicoccum*

*Nigrospora*

*Oidium/Peronospora*

*Rusts*

*Smuts/Myxomycetes*

### Health Effects

Although certain molds and fungi have been associated with allergenic or pathogenic properties, ALS makes no representation as to whether any organism(s) found in this report is harmful to humans or animals.

#### References:

Atlas of Clinical Fungi, G. S. de Hoog, J. Guarro, J. Gene & M.J. Figueras, Centraalbureau voor Schimmelfcultures/ Universitat Rovira I Virgili, 2000.

Identifying Filamentous Fungi, Guy St-Germain, Richard Summerbell, Star Publishing Company 1996.



## ANALYTICAL REPORT

Workorder: **34-1207543**

Client: Carson Dorn, Inc.

### Laboratory Contact Information

ALS Environmental  
960 W Levoy Drive  
Salt Lake City, Utah 84123

Phone: (801) 266-7700  
Email: [alslt.lab@ALSGlobal.com](mailto:alslt.lab@ALSGlobal.com)  
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### General Lab Comments

The results provided in this report relate only to the items tested.  
Samples were received in acceptable condition unless otherwise noted.  
This test report shall not be reproduced, except in full, without written approval of ALS.





## ANALYTICAL REPORT

Report Date: April 03, 2012

Jolene Cox  
Carson Dorn, Inc.  
712 West 12th St  
Juneau, AK 99801

Phone: 907 586 4447  
Fax: 907 586 5917  
E-mail: jcox@carsondorn.com

Workorder: **34-1209322**

Project ID: DOL BLDG STE 210 040212

Purchase Order: DOL BLDG STE 210

| Client Sample ID   | Lab ID     | Collect Date | Receive Date | Sampling Site    |
|--------------------|------------|--------------|--------------|------------------|
| AS1-210DOL-3-1-12  | 1209322001 | NA           | 04/02/12     | DOL BLDG STE 210 |
| AS2-210DOL-3-27-12 | 1209322002 | NA           | 04/02/12     | DOL BLDG STE 210 |

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# ANALYTICAL REPORT

Workorder: **34-1209322**

Client: Carson Dorn, Inc.

Project Manager: Rand Potter

## Analytical Results

|                                     |                                 |                      |
|-------------------------------------|---------------------------------|----------------------|
| Sample ID: <b>AS1-210DOL-3-1-12</b> | Sampling Site: DOL BLDG STE 210 | Received: 04/02/2012 |
| Lab ID: 1209322001                  | Media: Sulfur Summa 6 Liter     |                      |
| Matrix: Air                         | Sampling Parameter: NA          |                      |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:19 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Analyte                  | ppb  | ug/m <sup>3</sup> | MDL (ppb) | RL (ppb) | Dilution | Qual. |
|--------------------------|------|-------------------|-----------|----------|----------|-------|
| Dichlorodifluoromethane  | 0.27 | 1.4               | 0.15      | 0.50     | 1        | J     |
| Chloromethane            | 0.27 | 0.55              | 0.15      | 0.50     | 1        | J     |
| Freon 114                | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| Vinyl chloride           | ND   | <0.38             | 0.15      | 0.50     | 1        | U     |
| 1,3-Butadiene            | ND   | <0.33             | 0.15      | 0.50     | 1        | U     |
| Bromomethane             | ND   | <0.58             | 0.15      | 0.50     | 1        | U     |
| Chloroethane             | ND   | <0.40             | 0.15      | 0.50     | 1        | U     |
| Freon 11                 | 0.17 | 0.97              | 0.15      | 0.50     | 1        | J     |
| Freon 113                | ND   | <1.1              | 0.15      | 0.50     | 1        | U     |
| 1,1-Dichloroethene       | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| Acetone                  | 2.7  | 6.4               | 0.15      | 0.50     | 1        |       |
| Carbon disulfide         | 0.26 | 0.81              | 0.15      | 0.50     | 1        | J     |
| Methylene chloride       | ND   | <0.52             | 0.15      | 0.50     | 1        | U     |
| trans-1,2-Dichloroethene | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| Methyl t-butyl ether     | ND   | <0.54             | 0.15      | 0.50     | 1        | U     |
| Vinyl acetate            | ND   | <0.53             | 0.15      | 0.50     | 1        | U     |
| 2-Butanone               | ND   | <0.44             | 0.15      | 0.50     | 1        | U     |
| cis-1,2-Dichloroethene   | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| 1,1-Dichloroethane       | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| Ethyl acetate            | ND   | <0.54             | 0.15      | 0.50     | 1        | U     |
| Hexane                   | 0.87 | 3.1               | 0.15      | 0.50     | 1        |       |
| Chloroform               | ND   | <0.73             | 0.15      | 0.50     | 1        | U     |
| Tetrahydrofuran          | ND   | <0.44             | 0.15      | 0.50     | 1        | U     |
| 1,2-Dichloroethane       | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| 1,1,1-Trichloroethane    | ND   | <0.82             | 0.15      | 0.50     | 1        | U     |
| Carbon tetrachloride     | ND   | <0.94             | 0.15      | 0.50     | 1        | U     |
| Benzene                  | 2.2  | 7.0               | 0.15      | 0.50     | 1        |       |
| Cyclohexane              | ND   | <0.52             | 0.15      | 0.50     | 1        | U     |
| Trichloroethene          | ND   | <0.81             | 0.15      | 0.50     | 1        | U     |
| 1,2-Dichloropropane      | ND   | <0.73             | 0.15      | 0.50     | 1        | U     |
| Bromodichloromethane     | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| Heptane                  | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| cis-1,3-Dichloropropene  | ND   | <0.68             | 0.15      | 0.50     | 1        | U     |
| 4-Methyl-2-pentanone     | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |

Results Continued on Next Page



# ANALYTICAL REPORT

Workorder: **34-1209322**

Client: Carson Dorn, Inc.

Project Manager: Rand Potter

## Analytical Results

|                                     |                                 |                      |
|-------------------------------------|---------------------------------|----------------------|
| Sample ID: <b>AS1-210DOL-3-1-12</b> | Sampling Site: DOL BLDG STE 210 | Received: 04/02/2012 |
| Lab ID: 1209322001                  | Media: Sulfur Summa 6 Liter     |                      |
| Matrix: Air                         | Sampling Parameter: NA          |                      |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:19 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Analyte                   | ppb | ug/m <sup>3</sup> | MDL (ppb) | RL (ppb) | Dilution | Qual. |
|---------------------------|-----|-------------------|-----------|----------|----------|-------|
| trans-1,3-Dichloropropene | ND  | <0.68             | 0.15      | 0.50     | 1        | U     |
| 1,1,2-Trichloroethane     | ND  | <0.82             | 0.15      | 0.50     | 1        | U     |
| Toluene                   | 1.2 | 4.4               | 0.15      | 0.50     | 1        |       |
| 2-Hexanone                | ND  | <1.2              | 0.30      | 1.0      | 1        | U     |
| Tetrachloroethene         | ND  | <1.0              | 0.15      | 0.50     | 1        | U     |
| Dibromochloromethane      | ND  | <1.3              | 0.15      | 0.50     | 1        | U     |
| 1,2-Dibromoethane         | ND  | <1.2              | 0.15      | 0.50     | 1        | U     |
| Chlorobenzene             | ND  | <0.69             | 0.15      | 0.50     | 1        | U     |
| Ethyl benzene             | ND  | <0.65             | 0.15      | 0.50     | 1        | U     |
| m,p-Xylene                | ND  | <0.65             | 0.15      | 0.50     | 1        | U     |
| o-Xylene                  | ND  | <0.65             | 0.15      | 0.50     | 1        | U     |
| Styrene                   | ND  | <0.64             | 0.15      | 0.50     | 1        | U     |
| Bromoform                 | ND  | <1.6              | 0.15      | 0.50     | 1        | U     |
| 1,1,2,2-Tetrachloroethane | ND  | <1.0              | 0.15      | 0.50     | 1        | U     |
| 4-Ethyl toluene           | ND  | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,3,5-Trimethylbenzene    | ND  | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,2,4-Trimethylbenzene    | ND  | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,3-Dichlorobenzene       | ND  | <0.90             | 0.15      | 0.50     | 1        | U     |
| 1,4-Dichlorobenzene       | ND  | <0.90             | 0.15      | 0.50     | 1        | U     |
| Benzyl chloride           | ND  | <1.6              | 0.30      | 1.0      | 1        | U     |
| 1,2-Dichlorobenzene       | ND  | <1.8              | 0.30      | 1.0      | 1        | U     |
| 1,2,4-Trichlorobenzene    | ND  | <2.2              | 0.30      | 1.0      | 1        | U     |
| Hexachlorobutadiene       | ND  | <3.2              | 0.30      | 1.0      | 1        | U     |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:19 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Tentatively Identified Compound | ppb | Retention Time | Dilution | Qual. |
|---------------------------------|-----|----------------|----------|-------|
| Ethanol                         | 23  | 4.82           | 1        | J     |
| Isopropyl Alcohol               | 14  | 5.36           | 1        | J     |



# ANALYTICAL REPORT

Workorder: **34-1209322**

Client: Carson Dorn, Inc.

Project Manager: Rand Potter

## Analytical Results

|                                      |                                 |                      |
|--------------------------------------|---------------------------------|----------------------|
| Sample ID: <b>AS2-210DOL-3-27-12</b> | Sampling Site: DOL BLDG STE 210 | Received: 04/02/2012 |
| Lab ID: 1209322002                   | Media: Sulfur Summa 6 Liter     |                      |
| Matrix: Air                          | Sampling Parameter: NA          |                      |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:53 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Analyte                  | ppb  | ug/m <sup>3</sup> | MDL (ppb) | RL (ppb) | Dilution | Qual. |
|--------------------------|------|-------------------|-----------|----------|----------|-------|
| Dichlorodifluoromethane  | 0.4  | 2.0               | 0.15      | 0.50     | 1        | J     |
| Chloromethane            | 0.45 | 0.94              | 0.15      | 0.50     | 1        | J     |
| Freon 114                | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| Vinyl chloride           | ND   | <0.38             | 0.15      | 0.50     | 1        | U     |
| 1,3-Butadiene            | ND   | <0.33             | 0.15      | 0.50     | 1        | U     |
| Bromomethane             | ND   | <0.58             | 0.15      | 0.50     | 1        | U     |
| Chloroethane             | ND   | <0.40             | 0.15      | 0.50     | 1        | U     |
| Freon 11                 | 0.18 | 1.0               | 0.15      | 0.50     | 1        | J     |
| Freon 113                | ND   | <1.1              | 0.15      | 0.50     | 1        | U     |
| 1,1-Dichloroethene       | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| Acetone                  | 3.1  | 7.4               | 0.15      | 0.50     | 1        |       |
| Carbon disulfide         | ND   | <0.47             | 0.15      | 0.50     | 1        | U     |
| Methylene chloride       | 1.7  | 5.8               | 0.15      | 0.50     | 1        |       |
| trans-1,2-Dichloroethene | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| Methyl t-butyl ether     | ND   | <0.54             | 0.15      | 0.50     | 1        | U     |
| Vinyl acetate            | ND   | <0.53             | 0.15      | 0.50     | 1        | U     |
| 2-Butanone               | ND   | <0.44             | 0.15      | 0.50     | 1        | U     |
| cis-1,2-Dichloroethene   | ND   | <0.59             | 0.15      | 0.50     | 1        | U     |
| 1,1-Dichloroethane       | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| Ethyl acetate            | ND   | <0.54             | 0.15      | 0.50     | 1        | U     |
| Hexane                   | ND   | <0.53             | 0.15      | 0.50     | 1        | U     |
| Chloroform               | ND   | <0.73             | 0.15      | 0.50     | 1        | U     |
| Tetrahydrofuran          | ND   | <0.44             | 0.15      | 0.50     | 1        | U     |
| 1,2-Dichloroethane       | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| 1,1,1-Trichloroethane    | ND   | <0.82             | 0.15      | 0.50     | 1        | U     |
| Carbon tetrachloride     | ND   | <0.94             | 0.15      | 0.50     | 1        | U     |
| Benzene                  | ND   | <0.48             | 0.15      | 0.50     | 1        | U     |
| Cyclohexane              | ND   | <0.52             | 0.15      | 0.50     | 1        | U     |
| Trichloroethene          | 1.8  | 9.6               | 0.15      | 0.50     | 1        |       |
| 1,2-Dichloropropane      | ND   | <0.73             | 0.15      | 0.50     | 1        | U     |
| Bromodichloromethane     | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| Heptane                  | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |
| cis-1,3-Dichloropropene  | ND   | <0.68             | 0.15      | 0.50     | 1        | U     |
| 4-Methyl-2-pentanone     | ND   | <0.61             | 0.15      | 0.50     | 1        | U     |

Results Continued on Next Page



# ANALYTICAL REPORT

Workorder: **34-1209322**

Client: Carson Dorn, Inc.

Project Manager: Rand Potter

## Analytical Results

|                                      |                                 |                      |
|--------------------------------------|---------------------------------|----------------------|
| Sample ID: <b>AS2-210DOL-3-27-12</b> | Sampling Site: DOL BLDG STE 210 | Received: 04/02/2012 |
| Lab ID: 1209322002                   | Media: Sulfur Summa 6 Liter     |                      |
| Matrix: Air                          | Sampling Parameter: NA          |                      |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:53 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Analyte                   | ppb  | ug/m <sup>3</sup> | MDL (ppb) | RL (ppb) | Dilution | Qual. |
|---------------------------|------|-------------------|-----------|----------|----------|-------|
| trans-1,3-Dichloropropene | ND   | <0.68             | 0.15      | 0.50     | 1        | U     |
| 1,1,2-Trichloroethane     | ND   | <0.82             | 0.15      | 0.50     | 1        | U     |
| Toluene                   | 0.22 | 0.83              | 0.15      | 0.50     | 1        | J     |
| 2-Hexanone                | ND   | <1.2              | 0.30      | 1.0      | 1        | U     |
| Tetrachloroethene         | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| Dibromochloromethane      | ND   | <1.3              | 0.15      | 0.50     | 1        | U     |
| 1,2-Dibromoethane         | ND   | <1.2              | 0.15      | 0.50     | 1        | U     |
| Chlorobenzene             | ND   | <0.69             | 0.15      | 0.50     | 1        | U     |
| Ethyl benzene             | ND   | <0.65             | 0.15      | 0.50     | 1        | U     |
| m,p-Xylene                | ND   | <0.65             | 0.15      | 0.50     | 1        | U     |
| o-Xylene                  | ND   | <0.65             | 0.15      | 0.50     | 1        | U     |
| Styrene                   | ND   | <0.64             | 0.15      | 0.50     | 1        | U     |
| Bromoform                 | ND   | <1.6              | 0.15      | 0.50     | 1        | U     |
| 1,1,2,2-Tetrachloroethane | ND   | <1.0              | 0.15      | 0.50     | 1        | U     |
| 4-Ethyl toluene           | ND   | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,3,5-Trimethylbenzene    | ND   | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,2,4-Trimethylbenzene    | ND   | <0.74             | 0.15      | 0.50     | 1        | U     |
| 1,3-Dichlorobenzene       | ND   | <0.90             | 0.15      | 0.50     | 1        | U     |
| 1,4-Dichlorobenzene       | ND   | <0.90             | 0.15      | 0.50     | 1        | U     |
| Benzyl chloride           | ND   | <1.6              | 0.30      | 1.0      | 1        | U     |
| 1,2-Dichlorobenzene       | ND   | <1.8              | 0.30      | 1.0      | 1        | U     |
| 1,2,4-Trichlorobenzene    | ND   | <2.2              | 0.30      | 1.0      | 1        | U     |
| Hexachlorobutadiene       | ND   | <3.2              | 0.30      | 1.0      | 1        | U     |

### Analysis Method - EPA TO-15

|                             |                                                                                         |                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Preparation: Not Applicable | Analysis: EPA TO-15, Air<br>Batch: IVOA/1944 (HBN: 83969)<br>Analyzed: 04/02/2012 13:53 | Instrument ID: 5972-W<br>Percent Solid: NA<br>Report Basis: Wet |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

| Tentatively Identified Compound | ppb | Retention Time | Dilution | Qual. |
|---------------------------------|-----|----------------|----------|-------|
| Isobutane                       | 6.3 | 4.18           | 1        | J     |
| Ethanol                         | 27  | 4.85           | 1        | J     |
| Isopropyl Alcohol               | 2.3 | 5.45           | 1        | J     |

## Report Authorization

| Method    | Analyst      | Peer Review   |
|-----------|--------------|---------------|
| EPA TO-15 | Lisa M. Reid | Matthew Goetz |



## ANALYTICAL REPORT

**Workorder:** 34-1209322

**Client:** Carson Dorn, Inc.

**Project Manager:** Rand Potter

### Laboratory Contact Information

ALS Environmental  
960 W Levoy Drive  
Salt Lake City, Utah 84123

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### General Lab Comments

The results provided in this report relate only to the items tested.  
Samples were received in acceptable condition unless otherwise noted.  
Samples have not been blank corrected unless otherwise noted.  
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

| Testing Sector         | Accreditation Body (Standard)          | Certificate Number | Website                                                                                                                           |
|------------------------|----------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Environmental          | ACCLASS (DoD ELAP)                     | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |
|                        | Utah (NELAC)                           | DATA1              | <a href="http://health.utah.gov/lab/labimp/">http://health.utah.gov/lab/labimp/</a>                                               |
|                        | Nevada                                 | UT00009            | <a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>                                         |
|                        | Oklahoma                               | UT00009            | <a href="http://www.deq.state.ok.us/CSDnew/">http://www.deq.state.ok.us/CSDnew/</a>                                               |
|                        | Iowa                                   | IA# 376            | <a href="http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx">http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx</a>         |
|                        | Florida (TNI)                          | E871067            | <a href="http://www.dep.state.fl.us/labs/bars/sas/qa/">http://www.dep.state.fl.us/labs/bars/sas/qa/</a>                           |
|                        | Texas (TNI)                            | T104704456-11-1    | <a href="http://www.tceq.texas.gov/field/qa/lab_accred_certif.html">http://www.tceq.texas.gov/field/qa/lab_accred_certif.html</a> |
| Industrial Hygiene     | AIHA (ISO 17025 & AIHA IHLAP/ELLAP)    | 101574             | <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>                                                 |
| Lead Testing:          |                                        |                    |                                                                                                                                   |
| CPSC                   | ACCLASS (ISO 17025, CPSC)              | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |
| Soil, Dust, Paint ,Air | AIHA (ISO 17025, AIHA ELLAP and NLLAP) | 101574             | <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>                                                 |
| Dietary Supplements    | ACCLASS (ISO 17025)                    | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |



## ANALYTICAL REPORT

Workorder: **34-1209322**

Client: Carson Dorn, Inc.

Project Manager: Rand Potter

### Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< This testing result is less than the numerical value.

\*\* No result could be reported, see sample comments for details.

### Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.



## ANALYTICAL REPORT

Report Date: April 10, 2012

Jolene Cox  
Carson Dorn, Inc.  
712 West 12th St  
Juneau, AK 99801

Phone: 907 586 4447  
Fax: 907 586 5917  
E-mail: jcox@carsondorn.com

Workorder: **34-1210008**  
Client Project ID: Suite 210 040912  
Purchase Order: Suite 210  
Project Manager: Paul Pope

### Analytical Results

| Sample ID: <b>AS-PR-210-4-4-12</b> |                                      | Media: Air-O-Cell filters    | Collected: 04/04/2012 |
|------------------------------------|--------------------------------------|------------------------------|-----------------------|
| Lab ID: 1210008001                 |                                      | Sampling Location: Suite 210 | Received: 04/09/2012  |
| Method: MC-AN-001                  | Sampling Parameter: Air Volume 152 L |                              | Analyzed: 04/09/2012  |
| Analyte                            | Result                               |                              |                       |
| Density Rating                     | 1                                    |                              |                       |
| Method: MC-AN-001                  | Sampling Parameter: Air Volume 152 L |                              | Analyzed: 04/09/2012  |
| Analyte                            | Count                                | spores/m <sup>3</sup>        |                       |
| Pollen                             | 0                                    | NA                           |                       |
| Mycelial Fragments                 | 0                                    | NA                           |                       |
| Cladosporium                       | 1.00                                 |                              |                       |
| Method: MC-AN-001                  | Sampling Parameter: Air Volume 152 L |                              | Analyzed: 04/09/2012  |
| Analyte                            | L                                    |                              |                       |
| Air Volume                         | 152                                  |                              |                       |

| Sample ID: <b>AS-PR-Outside-4-4-12</b> |                                      | Media: Air-O-Cell filters    | Collected: 04/04/2012 |
|----------------------------------------|--------------------------------------|------------------------------|-----------------------|
| Lab ID: 1210008002                     |                                      | Sampling Location: Suite 210 | Received: 04/09/2012  |
| Method: MC-AN-001                      | Sampling Parameter: Air Volume 152 L |                              | Analyzed: 04/09/2012  |
| Analyte                                | Result                               |                              |                       |
| Density Rating                         | 2                                    |                              |                       |
| Method: MC-AN-001                      | Sampling Parameter: Air Volume 152 L |                              | Analyzed: 04/09/2012  |
| Analyte                                | Count                                | spores/m <sup>3</sup>        |                       |
| Pollen                                 | 0                                    | NA                           |                       |
| Mycelial Fragments                     | 0                                    | NA                           |                       |
| Amerospores                            | 3.00                                 |                              |                       |
| Cladosporium                           | 2.00                                 |                              |                       |
| Smuts/Myxomycetes                      | 1.00                                 |                              |                       |

Results Continued on Next Page

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## ANALYTICAL REPORT

Workorder: **34-1210008**  
Client Project ID: Suite 210 040912  
Purchase Order: Suite 210  
Project Manager: Paul Pope

### Analytical Results

|                                        |  |                                      |                       |
|----------------------------------------|--|--------------------------------------|-----------------------|
| Sample ID: <b>AS-PR-Outside-4-4-12</b> |  | Media: Air-O-Cell filters            | Collected: 04/04/2012 |
| Lab ID: 1210008002                     |  | Sampling Location: Suite 210         | Received: 04/09/2012  |
| Method: MC-AN-001                      |  | Sampling Parameter: Air Volume 152 L | Analyzed: 04/09/2012  |
| Analyte                                |  | L                                    |                       |
| Air Volume                             |  | 152                                  |                       |

### Report Authorization

| Method    | Analyst            | Peer Review  |
|-----------|--------------------|--------------|
| MC-AN-001 | Adrian A. Gallardo | Paul E. Pope |

### Laboratory Contact Information

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## ANALYTICAL REPORT

Workorder: **34-1210008**

Client Project ID: Suite 210 040912

Purchase Order: Suite 210

Project Manager: Paul Pope

### General Lab Comments

The results provided in this report relate only to the items tested.  
Samples were received in acceptable condition unless otherwise noted.  
Samples have not been blank corrected unless otherwise noted.  
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

| Testing Sector         | Accreditation Body (Standard)          | Certificate Number | Website                                                                                                                           |
|------------------------|----------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Environmental          | AClass (DoD ELAP)                      | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |
|                        | Utah (NELAC)                           | DATA1              | <a href="http://health.utah.gov/lab/labimp/">http://health.utah.gov/lab/labimp/</a>                                               |
|                        | Nevada                                 | UT00009            | <a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>                                         |
|                        | Oklahoma                               | UT00009            | <a href="http://www.deq.state.ok.us/CSDnew/">http://www.deq.state.ok.us/CSDnew/</a>                                               |
|                        | Iowa                                   | IA# 376            | <a href="http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx">http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx</a>         |
|                        | Florida (TNI)                          | E871067            | <a href="http://www.dep.state.fl.us/labs/bars/sas/qa/">http://www.dep.state.fl.us/labs/bars/sas/qa/</a>                           |
|                        | Texas (TNI)                            | T104704456-11-1    | <a href="http://www.tceq.texas.gov/field/qa/lab_accred_certif.html">http://www.tceq.texas.gov/field/qa/lab_accred_certif.html</a> |
| Industrial Hygiene     | AIHA (ISO 17025 & AIHA IHLAP/ELLAP)    | 101574             | <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>                                                 |
| Lead Testing:          |                                        |                    |                                                                                                                                   |
| CPSC                   | AClass (ISO 17025, CPSC)               | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |
| Soil, Dust, Paint ,Air | AIHA (ISO 17025, AIHA ELLAP and NLLAP) | 101574             | <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>                                                 |
| Dietary Supplements    | AClass (ISO 17025)                     | ADE-1420           | <a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>                                                               |

### Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

\*\* No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

# Session Report

4/11/2012

## Information Panel

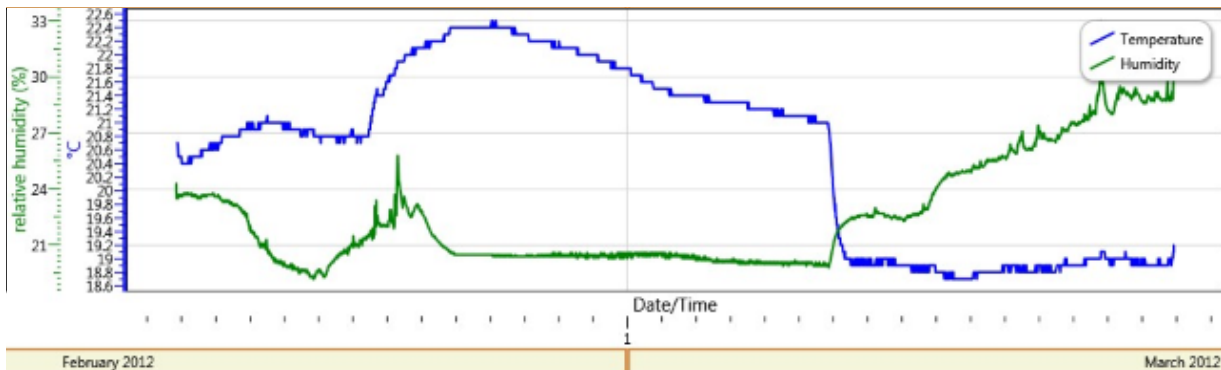
Name Suite 210 DOI - Pre Remed

## General Data Panel

| Description     | Value                   | Description       | Value                    |
|-----------------|-------------------------|-------------------|--------------------------|
| Dust Average    | 0.002 mg/m <sup>3</sup> | Temp Avg          | 20.6 °C                  |
| Humidity Avg    | 22.5 %                  | C02Ave            | 278 PPM                  |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 2/29/2012<br>10:51:49 AM |
| Dust Max        | 0.109 mg/m <sup>3</sup> | Dust Max Time     | 2/29/2012<br>4:34:58 PM  |
| Temperature Max | 22.5 °C                 | Temp Max Time     | 2/29/2012<br>8:11:19 PM  |
| Temperature Min | 18.7 °C                 | Temp Min Time     | 3/1/2012<br>9:48:14 AM   |
| Humidity Max    | 33.3 %                  | Humidity Max Time | 3/1/2012<br>1:50:18 PM   |
| Humidity Min    | 19.2 %                  | Humidity Min Time | 2/29/2012<br>2:51:20 PM  |
| C02Max          | 672 PPM                 | C02MaxTime        | 2/29/2012<br>10:51:12 AM |
| C02Min          | 188 PPM                 | C02MinTime        | 3/1/2012<br>5:18:05 AM   |

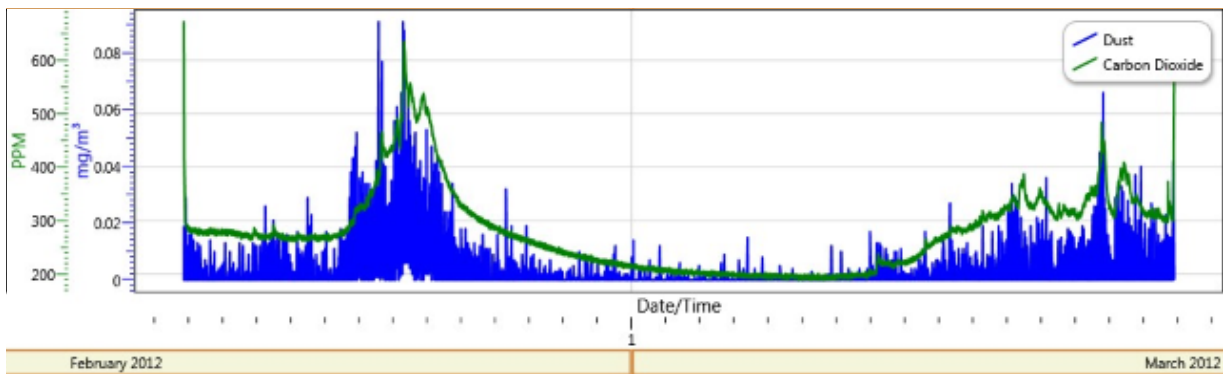
## Logged Data Chart

Suite 210 DOI - Pre Remed: Logged Data Chart



## Logged Data Chart

Suite 210 DOI - Pre Remed: Logged Data Chart



# Session Report

4/11/2012

## Information Panel

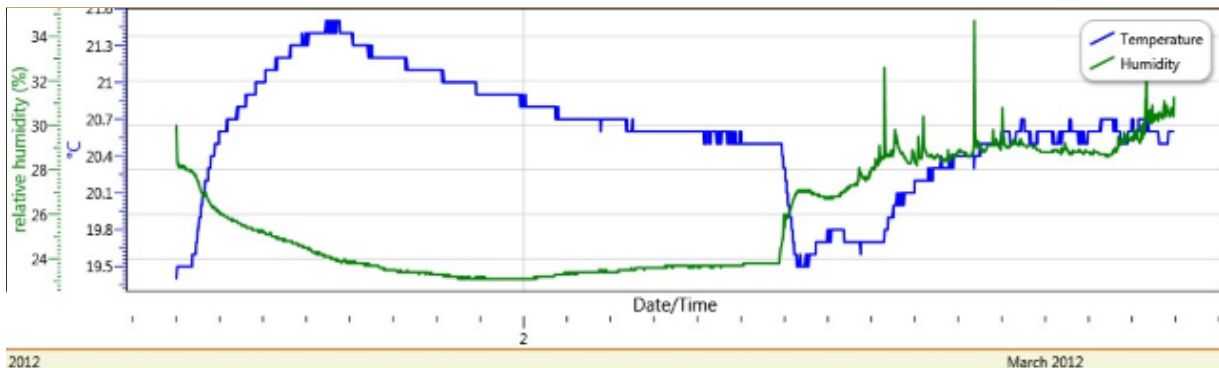
Name Suite 210 DOL Pre-Remed

## General Data Panel

| Description     | Value                   | Description       | Value                   |
|-----------------|-------------------------|-------------------|-------------------------|
| Dust Average    | 0.001 mg/m <sup>3</sup> | Temp Avg          | 20.6 °C                 |
| Humidity Avg    | 25.8 %                  | C02Ave            | 239 PPM                 |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 3/1/2012<br>4:00:34 PM  |
| Dust Max        | 0.12 mg/m <sup>3</sup>  | Dust Max Time     | 3/2/2012<br>2:14:50 PM  |
| Temperature Max | 21.5 °C                 | Temp Max Time     | 3/1/2012<br>7:42:35 PM  |
| Temperature Min | 19.4 °C                 | Temp Min Time     | 3/1/2012<br>4:00:30 PM  |
| Humidity Max    | 34.7 %                  | Humidity Max Time | 3/2/2012<br>10:24:18 AM |
| Humidity Min    | 23.1 %                  | Humidity Min Time | 3/1/2012<br>11:43:54 PM |
| C02Max          | 557 PPM                 | C02MaxTime        | 3/1/2012<br>4:00:39 PM  |
| C02Min          | 181 PPM                 | C02MinTime        | 3/2/2012<br>4:52:54 AM  |

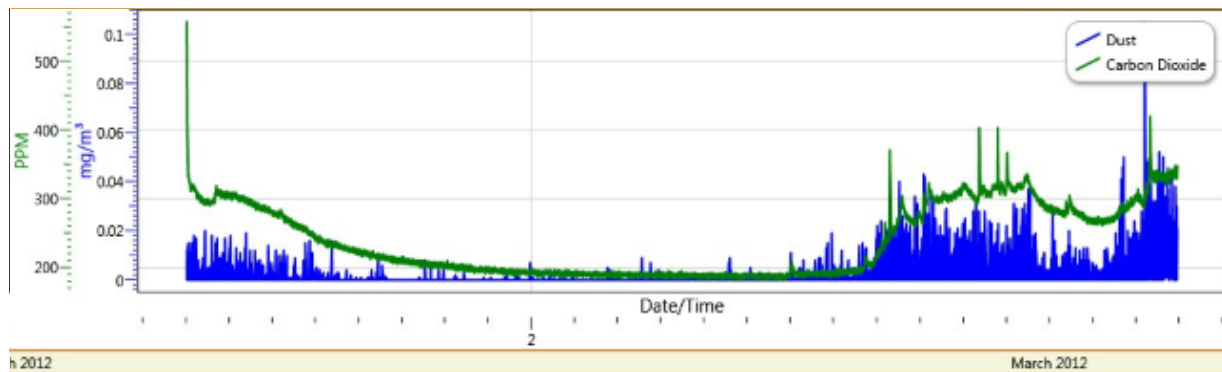
## Logged Data Chart

Suite 210 DOL Pre-Remed: Logged Data Chart



## Logged Data Chart

Suite 210 DOL Pre-Remed: Logged Data Chart



# Session Report

4/11/2012

## Information Panel

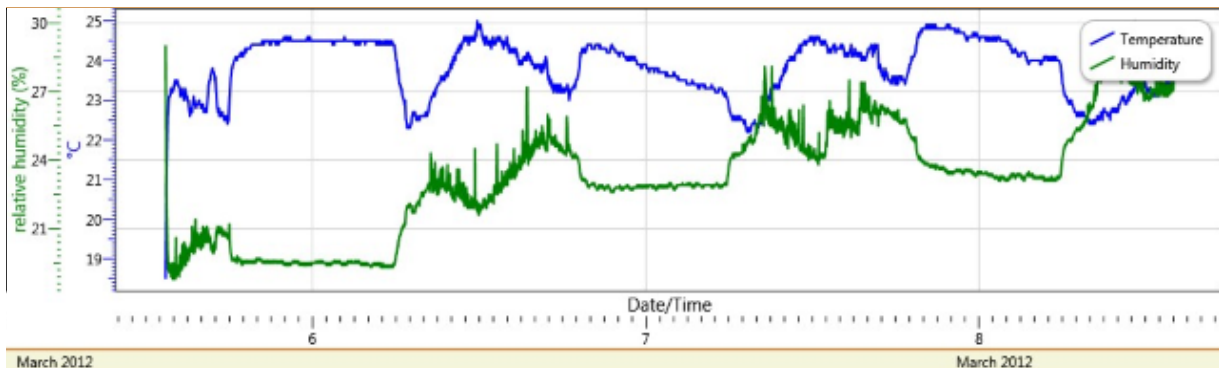
Name OC DOL Remed.

## General Data Panel

| Description     | Value                   | Description       | Value                   |
|-----------------|-------------------------|-------------------|-------------------------|
| Dust Average    | 0 mg/m <sup>3</sup>     | Temp Avg          | 23.8 °C                 |
| Humidity Avg    | 23.2 %                  | C02Ave            | 240 PPM                 |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 3/5/2012<br>1:26:12 PM  |
| Dust Max        | 0.047 mg/m <sup>3</sup> | Dust Max Time     | 3/5/2012<br>4:28:09 PM  |
| Temperature Max | 25 °C                   | Temp Max Time     | 3/6/2012<br>11:54:46 AM |
| Temperature Min | 18.5 °C                 | Temp Min Time     | 3/5/2012<br>1:26:09 PM  |
| Humidity Max    | 30.1 %                  | Humidity Max Time | 3/8/2012<br>11:20:20 AM |
| Humidity Min    | 18.8 %                  | Humidity Min Time | 3/5/2012<br>2:01:10 PM  |
| C02Max          | 884 PPM                 | C02MaxTime        | 3/6/2012<br>3:31:12 PM  |
| C02Min          | 147 PPM                 | C02MinTime        | 3/8/2012<br>6:22:19 AM  |

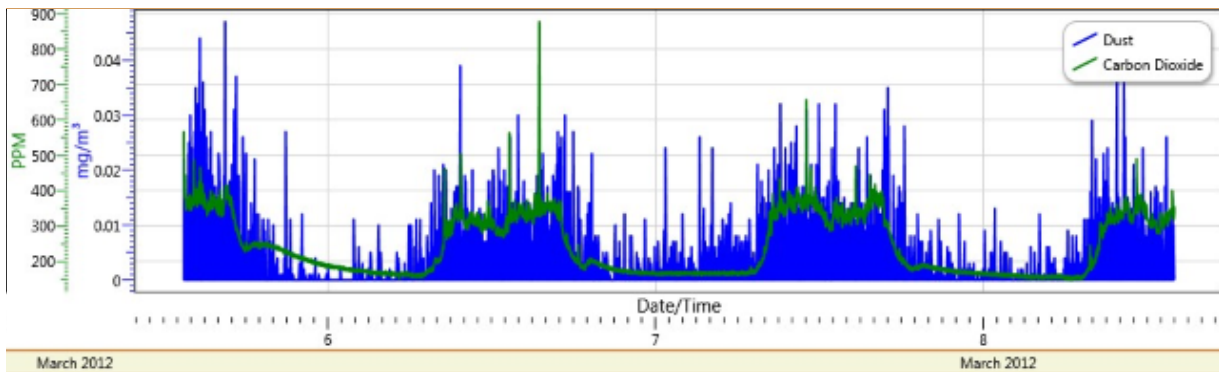
## Logged Data Chart

OC DOL Remed.: Logged Data Chart



## Logged Data Chart

OC DOL Remed.: Logged Data Chart





# Session Report

4/11/2012

## Information Panel

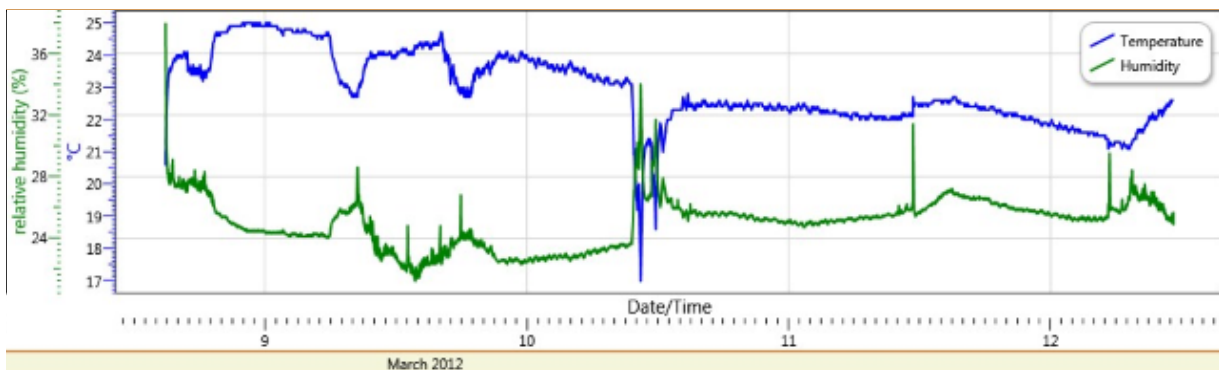
Name OC DOL Remed. Part 2

## General Data Panel

| Description     | Value                   | Description       | Value                    |
|-----------------|-------------------------|-------------------|--------------------------|
| Dust Average    | 0 mg/m <sup>3</sup>     | Temp Avg          | 22.9 °C                  |
| Humidity Avg    | 25.0 %                  | C02Ave            | 193 PPM                  |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 3/8/2012<br>2:54:22 PM   |
| Dust Max        | 0.069 mg/m <sup>3</sup> | Dust Max Time     | 3/8/2012<br>5:53:04 PM   |
| Temperature Max | 25 °C                   | Temp Max Time     | 3/8/2012<br>10:30:46 PM  |
| Temperature Min | 17 °C                   | Temp Min Time     | 3/10/2012<br>10:30:22 AM |
| Humidity Max    | 38.4 %                  | Humidity Max Time | 3/8/2012<br>2:54:23 PM   |
| Humidity Min    | 21.2 %                  | Humidity Min Time | 3/9/2012<br>1:49:19 PM   |
| C02Max          | 687 PPM                 | C02MaxTime        | 3/9/2012<br>4:06:56 PM   |
| C02Min          | 141 PPM                 | C02MinTime        | 3/9/2012<br>6:26:49 AM   |

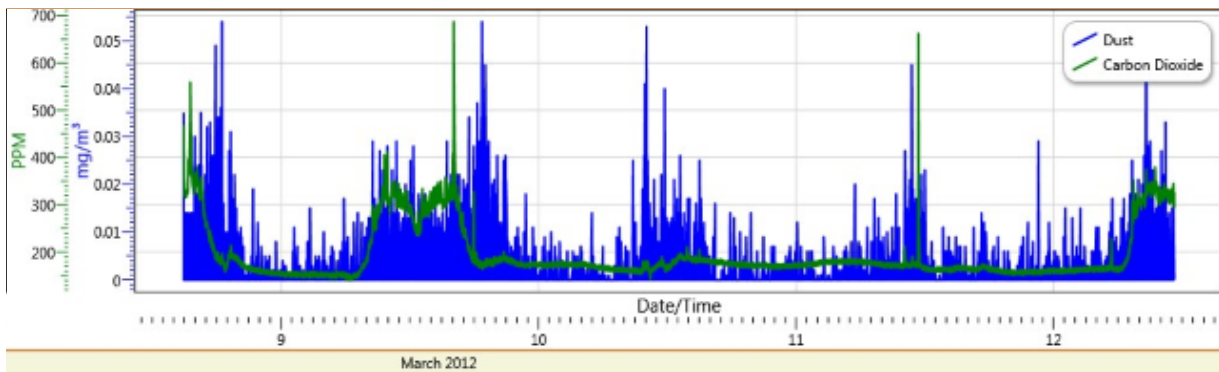
## Logged Data Chart

OC DOL Remed. Part 2: Logged Data Chart



## Logged Data Chart

OC DOL Remed. Part 2: Logged Data Chart



# Session Report

4/11/2012

## Information Panel

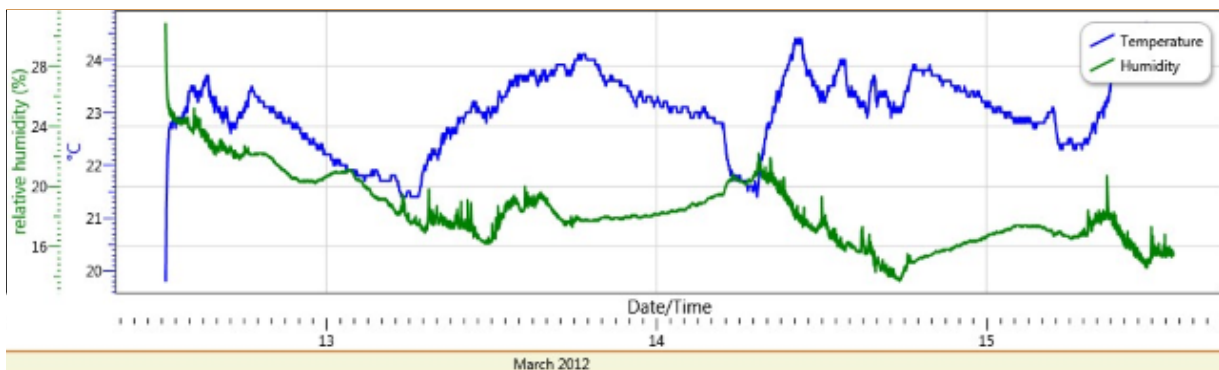
Name OC DOL Remed. Part 3

## General Data Panel

| Description     | Value                   | Description       | Value                    |
|-----------------|-------------------------|-------------------|--------------------------|
| Dust Average    | 0 mg/m <sup>3</sup>     | Temp Avg          | 23.1 °C                  |
| Humidity Avg    | 18.4 %                  | C02Ave            | 196 PPM                  |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 3/12/2012<br>12:18:18 PM |
| Dust Max        | 0.064 mg/m <sup>3</sup> | Dust Max Time     | 3/15/2012<br>12:06:34 PM |
| Temperature Max | 24.7 °C                 | Temp Max Time     | 3/15/2012<br>11:42:49 AM |
| Temperature Min | 19.8 °C                 | Temp Min Time     | 3/12/2012<br>12:18:39 PM |
| Humidity Max    | 31.4 %                  | Humidity Max Time | 3/12/2012<br>12:18:15 PM |
| Humidity Min    | 13.7 %                  | Humidity Min Time | 3/14/2012<br>5:50:52 PM  |
| C02Max          | 733 PPM                 | C02MaxTime        | 3/15/2012<br>8:53:08 AM  |
| C02Min          | 120 PPM                 | C02MinTime        | 3/15/2012<br>5:36:29 AM  |

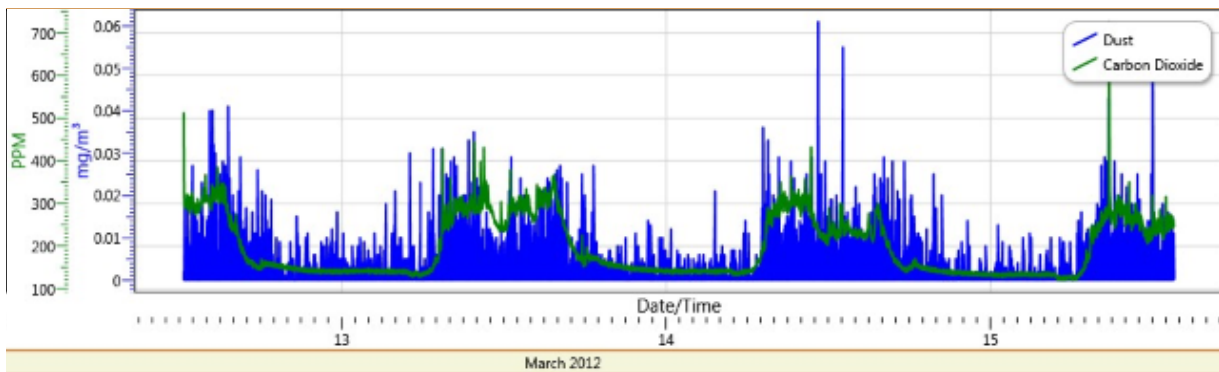
## Logged Data Chart

OC DOL Remed. Part 3: Logged Data Chart



## Logged Data Chart

OC DOL Remed. Part 3: Logged Data Chart



# Session Report

4/11/2012

## Information Panel

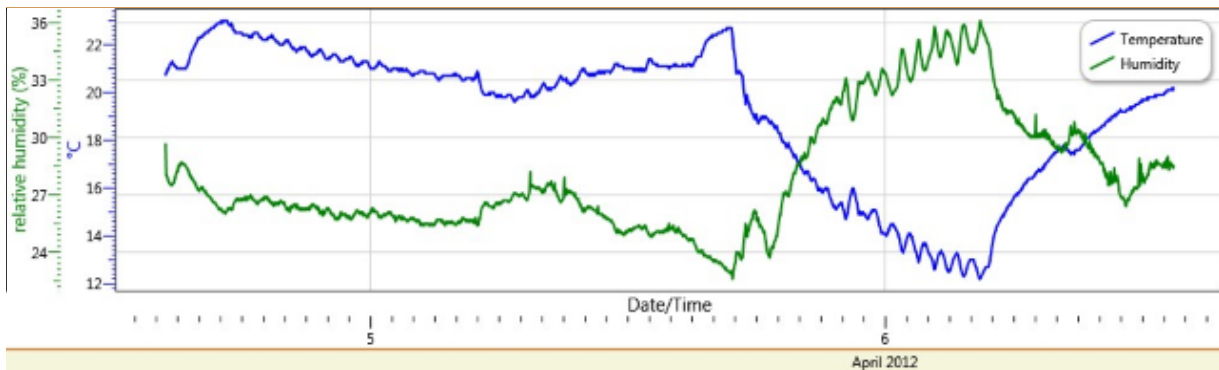
Name Suite 210 DOL - Post Remed

## General Data Panel

| Description     | Value                   | Description       | Value                  |
|-----------------|-------------------------|-------------------|------------------------|
| Dust Average    | 0.002 mg/m <sup>3</sup> | Temp Avg          | 19.1 °C                |
| Humidity Avg    | 28.0 %                  | C02Ave            | 232 PPM                |
| Dust Min        | 0 mg/m <sup>3</sup>     | Dust Min Time     | 4/4/2012<br>2:27:03 PM |
| Dust Max        | 0.122 mg/m <sup>3</sup> | Dust Max Time     | 4/6/2012<br>1:32:27 PM |
| Temperature Max | 23 °C                   | Temp Max Time     | 4/4/2012<br>5:15:09 PM |
| Temperature Min | 12.2 °C                 | Temp Min Time     | 4/6/2012<br>4:30:05 AM |
| Humidity Max    | 36.1 %                  | Humidity Max Time | 4/6/2012<br>4:31:01 AM |
| Humidity Min    | 22.6 %                  | Humidity Min Time | 4/5/2012<br>4:56:21 PM |
| C02Max          | 642 PPM                 | C02MaxTime        | 4/4/2012<br>2:26:40 PM |
| C02Min          | 185 PPM                 | C02MinTime        | 4/5/2012<br>5:28:19 PM |

## Logged Data Chart

Suite 210 DOL - Post Remed: Logged Data Chart



## Logged Data Chart

Suite 210 DOL - Post Remed: Logged Data Chart

