

# CASE STUDY



## Indoor Air Quality Particle Assessment National Insurance Carrier Claims Office

The issue of concern presented to DUCTZ National Service Team (NST) was fine particulate emanating from specific slot diffusers. During routine ceiling tile replacement, maintenance staff noted the conditions of the tiles to be black with visual particulate accumulation.

DUCTZ NST contracted to evaluate the building's mechanical system components and the air distribution system, internally and externally, relative to cleanliness, maintenance, and design. Pictorial references were collected to create a hypotheses concerning fine particle accumulation at the linear slot diffusers. Laser particle testing was conducted to help determine the source of the fine particulate.

Visual observations determined several potential sources for contaminants entering the system, including - outside air intakes in close proximity to a cooling tower; an air intake drawing particulate from a loading dock area used by gasoline and diesel fuel burning vehicles; and a multilane highway in close proximity to the fresh air intakes increased the likelihood of collecting fine airborne particulate matter.

DUCTZ NST recommended a complete removal of collected particulate from the entire HVAC system. The client chose to implement all the suggested strategies.

### SERVICES & CAPABILITIES

- Fire and Water Damage Restoration
- Cleaning of HVAC Systems
- Hygienic Cleaning of Mechanical Systems
- Maintenance Cleaning Programs
- Evaluations of Mechanical Systems
- Project Management & Consultation
- Certified & Trained Technicians



### HVAC Inspection Report State Farm Tukwila Project ID

Location: State Farm Claims Offices at 6835 Fort Dent Way in Tukwila 98188  
Contact: State Farm Tim Maurer 309-766-4116 Cell 309-287-4116  
On Site Contact: Dan Koback 253-255-4230



MOBILE



RESPONSIVE



EXPERIENCED