



# *Mystic Air Quality Consultants, Inc.*

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Re: Past and Present Indoor Air Quality Testing at Mohegan Sun

Mystic Air Quality Consultants, Inc. has provided indoor air quality and industrial hygiene services for Mohegan Sun since its inception. Mystic Air Quality Consultants, Inc. is a Small, Women Owned Business that has been conducting indoor air quality surveys for over 20 years. We have over 500 regular clients which include Pfizers, CL&P, The Hartford, CIGNA, Hamilton Standard, Hartford Hospital, the Hartford Courant, and the US Navy. We have also performed many projects for the State of Connecticut. Our D&B number is 19-871-4131 and our Federal ID is 06-1225491.

Mohegan Sun has had indoor air quality testing periodically since it has opened. Over the past six years our contract (which includes another 5 years) requires a minimum of semi-annual air quality surveys. The surveys have been collected on a variety of days and times with fluctuating patron loads. These locations include patron gaming areas, non-gaming common areas, dining venues, and multiple employee areas. Outlying structures such as the Eagleview Employee Center and Mohegan Sun's Fueling Station and Convenience Store have also been included in these surveys.

The sample results for carbon monoxide, temperature, relative humidity, respirable particulates, and total volatile organic compounds (TVOC's) have consistently been within applicable OSHA standards. Additionally, the results have consistently been within recommended guidelines established by the ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) organization.

Ambient air sampling for nicotine has also been conducted at each of the nineteen sample locations. These areas are located on the gaming floor, common non-gaming areas, dining venues, employee areas, and multiple smoke free areas. The results of these tests have consistently identified vapor phase nicotine concentrations of  $<0.017 \text{ mg/m}^3$  (milligrams per cubic meter of air). The OSHA permissible exposure limit for vapor phase nicotine is  $0.5 \text{ mg/m}^3$  based upon an eight-hour time weighted average. The only area with detectable airborne nicotine levels was in the back-of-the-house employee smoking lounge.

Mohegan Sun has used a number of methods to improve air quality. They have created high ceilings in most areas, limited smoking to some gaming areas, installed special dust removal systems (ie. Cosa/Tron), and use carbon dioxide sensors to automatically increase the amount of fresh air as needed.

A handwritten signature in black ink, appearing to read "C. Eident".

Christopher J. Eident, CIH, CSP, RS CEO

*Mystic Air Quality is an AIHA Accredited Lab*

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