

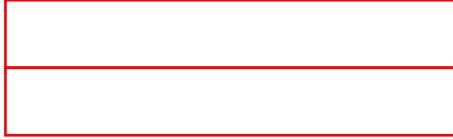


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ENVIRONMENTAL ENGINEERING: Air Pollution and Control



**Derivation
of
Toxicology and Risk
Assessment Values for
Ambient Air Toxics
Detected at Naval Air
Facility, Atsugi, Japan**



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Abstract: The mission of Naval Air Facility Atsugi is to provide facilities, services and material support for U.S. Navy and Marine Corps aviation operations, and to provide logistic support for Carrier Air Wing FIVE. Approximately 8,000 military personnel and dependents arc stationed St NAF atsugi. A population boom in the early 1970s caused massive expansion in the communities surrounding the base and, as a result, the requirement for disposal of municipal and medical wastes also grew. Currently, the Shinkampo Incinerator immediately adjacent to NAF Atsugi burns over 180 tons of waste per day. Prevailing winds blow emissions from the incinerator stack over highly populated areas of NAF Atsugi. Under contract from the Navy Environmental Health Center, a private environmental consulting firm conducted an ambient air toxic study to evaluate the chemical constituency of the incinerator's emissions. This study examined the ambient air concentration of multiple toxic and criteria pollutants. Over 200 chemicals were identified in the air over NAF Atsugi; however, within



the scientific literature, toxicology information suitable for use in human health risk assessment could be found for all but 66 of these chemicals. The present report describes the derivation of appropriate risk assessment reference values from data in the scientific literature and summarizes the health effects of each of the chemicals detected at NAF Atsugi.

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