



HEGGIES OZONE REPORT



REPORT 10-5879
Final Draft

**Ozone Monitoring
Hilton Laundry Facilities
George Street Sydney CBD NSW**

PREPARED FOR

Ozone Technologies
Unit 35, 34-36 Ralph Street
Alexandria NSW 2015

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DOCUMENT CONTROL

Reference	Status	Date	Prepared	Checked	Authorised
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1 INTRODUCTION

1.1 Scope

Heggies Pty Ltd (Heggies) were commissioned by Kevin Nagle of Ozone Technologies Pty Ltd to undertake an assessment of indoor air in the Laundry Facilities located at the Hilton Hotel George Street, Sydney NSW. The assessment involved monitoring of ozone (O3) on 22 August 2007.

2 LIMITATIONS

Work is conducted in a conscientious and professional manner. The nature of the task however, and the likely disproportion between any damage or loss which might arise from the work and any report prepared as a result and the cost of our services is such that Heggies cannot guarantee that all issues of concern/contaminants have been identified. Thus while we carry out the work to the best of our ability, we totally exclude any loss or damages which may arise from services provided to Ozone Technologies Pty Ltd or other parties.

We are not building consultants, Heating Ventilation and Air Conditioning systems (HVAC) consultants or medical professionals. Medical opinion should be sought where appropriate on potential health risks arising from airborne contaminants and the treatment of any associated illness.

We do not guarantee that the standards/guidelines used in comparison of the results or the work program conducted are suitable/adequate to identify all or any hazards or risks. This is because the work program is limited to monitoring/sampling a selection of contaminants in a number of locations only and does not cover all possible contaminants or hazardous materials that may be present; and there may not be recognised standards/guidelines available that are specifically suitable for application to the particular conditions and persons on site.

It is recommended that professional medical opinion be sought in regards to the suitability/adequacy of the work program conducted and the risks or hazards that the monitoring/sampling results may present to staff, visitors or other persons on the site.

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3 METHODOLOGY

Ozone (O3) concentration measurements were taken by use of an AeroQual Ozone Monitor over the course of approximately one hour during regularly work conditions and operations. The results have been compared to health-based occupational air quality standards provided by the Australian Safety and Compensational Council (ASCC) (formerly NOHSC).

4 RESULTS

The results of the O3 monitoring are presented in Table 4-1below.

Table 4-1 – Ozone Monitoring Results

Location	Monitoring Time	Maximum O ₃ (ppm)
Background: George Street(door)	10:30	0.019
Background: George Street(curbside)	10:32	0.023
Behind 70kg Milnoz Washing Machine	10:45	0.019
Workbench in front of 70kg Milnoz	10:48	0.016
Machine to right of 70kg Milnoz	10:55	0.011
Folder machine	11:00	0.016
Workbench near ironing area	11:05	0.013
Ironing area	11:10	0.013
Unloading of 70kg Milnoz	11:25	0.020

ppm = parts per million

5 DISCUSSION OF RESULTS

The ASCC exposure standard for O3 is 0.1ppm for an 8-hour time weighted average (TWA). The maximum concentration of O3 concentrations measured for all areas were well below the ASCC health-based standard.

6 CONCLUSIONS

A simple comparison of an air measurement and a health benchmark can be thought of as a "screening" exercise, that is, the assessor is screening for possible problems. If a majority of the concentrations observed are much less then the benchmark then it would be appropriate to conclude that a health impact is unlikely.

As all O3 concentrations observed during the monitoring period were below the ASCC standard it can be concluded that the risk to health of employees working within the area monitored due to O3 exposure are negligible.