



METHYL BROMIDE FUMIGATIONS ANNUAL MONITORING REPORT - 2016

Site: Napier Port

Reporting period: 1 January 2016 – 31 December 2016

1. Monitoring site information

Complete the tables below. All details in section two of this report refers to the site stated below.

Name of fumigation site: Port of Napier	
Physical address: of fumigation site	Breakwater Road
	Napier
Name of fumigation company:	
	Envirofume Limited
	2/81 Newton Street
	Mount Mannganui, 3116, NZ

Report prepared by

The monitoring report should be prepared by the fumigator on behalf of the person in charge of the site.

Name: Adam Hurd	
Role: North Island Operations Manager	
Organisation: Envirofume Ltd	

Report reviewed by

The report should be reviewed by the person in charge of the site*.

Name: Steve Hart
Role: Safety Advisor
Organisation: Napier Port

* The person in charge of the site (PIC) is responsible for producing the annual report and providing this to the EPA. In practice the preparation of the report is best done by the fumigator as they hold the raw monitoring data and other relevant information necessary to complete the report. The PIC should review the report to ensure it complies with the regulatory requirements and, as a minimum, be aware of the report and its contents. Ultimately, the PIC is legally responsible for the product of the annual monitoring report. The PIC must also retain a copy for their own records on site.

2. Fumigation details

For the reporting period 1 January 2016 – 31 December 2016

2.1. Fumigation type, number and amount

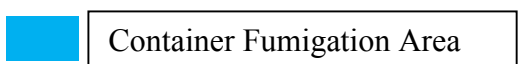
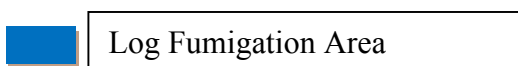
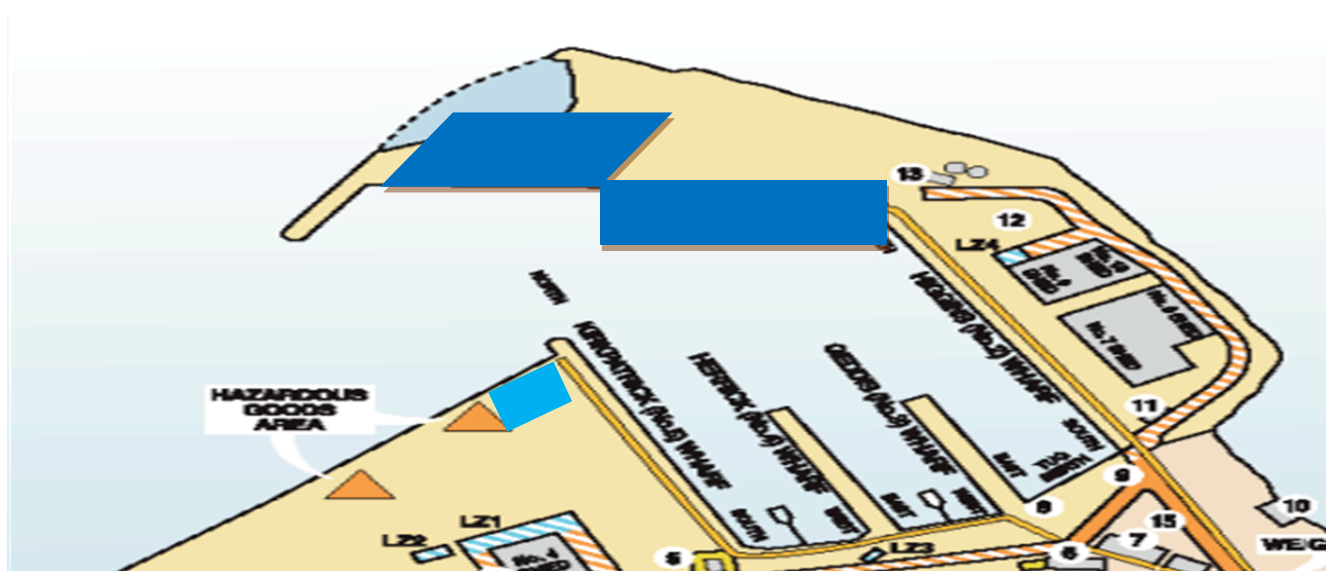
Record the total number of fumigations carried out in the reporting period and the total amount of methyl bromide used for each type of fumigation. When fumigating ships indicate the total number of holds fumigated.

Type of contained space fumigated	Number of fumigations	Total amount of methyl bromide used (Kg)
Ship (hold)		
Containers		
Tent (logs under cover)	171	16,820
Other (e.g. fumigation cell)		
Unintentional Releases (U/R)	1	177kgs (applied)
Total:		16,820kgs

2.2. Location

Provide a description of the site and explain where on site the fumigations take place. Attach a map of the site with the fumigation areas clearly marked

The designated areas are in dark blue. No methyl Bromide used within 200m of boundary fence.



2.3. Monitoring and equipment used

Describe how the monitoring for methyl bromide was carried out. This should also include how you monitored the atmospheric conditions (wind speed and direction) at the time the methyl bromide was being vented.

Hand held gas monitors,
Digital anemometer with built in wind direction compass,
Met-Service , and port weather station.

Equipment

Give details of the equipment used to undertake monitoring of methyl bromide and atmospheric conditions.

Honeywell Gas Alert Micro 5 PID monitors with continuous air pump and data logging.

Calibrated as per manufactures requirements every 6 months.

2.4. Annual methyl bromide exposure levels.

Record the annual TEL for methyl bromide calculated for the reporting period

The allowed annual TEL for methyl bromide is 0.0013 parts per million (ppm). This is the amount of methyl bromide a person can safely be exposed to over a lifetime. The annual TEL is a chronic value derived on the basis that a person exposed to no more than this amount per year for a lifetime would not suffer adverse health effects. Details on how to calculate the annual TEL are given in the EPA Technical Guide: [Methyl bromide fumigations. Post reassessment guidance for fumigators April 2011](#).

No measureable methyl bromide levels were detected at any time during the reporting period

2.5. Unintentional release

There was 1 unintentional releases (logs under tarp) during the reporting period; 27 th August 2016 in the Log yard row D 18 was ripped open due to high winds. Envirofume carried out monitoring during the event. No gas was detected. 2 personnel were tested for Methyl Bromide levels, all results were clear. Envirofume had a watchman on duty when rows under fumigation.

2.6. Breaches of the tolerable exposure limits

The allowed 1 hour TEL is 1 parts per million. The allowed 24 hour TEL is 0.333 parts per million.

Record any exceedances of the one hour and 24 hour TELs for methyl bromide and state when and who you notified of these breaches

There were no breaches during the reporting period

2.7. Other issues, accidents or non-compliance matters

Record any other issues, accidents and matters of non-compliance that may have occurred during the reporting period. **There were no breaches during the reporting period**

Regulatory requirements for reporting of methyl bromide

Control requirements for the annual reporting of methyl bromide

Clause 5 of table 2 of the EPA decision document: Annual monitoring report

1. The person in charge of a site where more than the reporting threshold set out in clause 5(2) is applied must produce an annual monitoring report.
2. The reporting threshold is 500 kg or more of methyl bromide in one calendar year at a site.
3. Methyl bromide that is recaptured using recapture technology does not count towards the reporting threshold set out in clause 5(2).
4. The annual monitoring report shall contain the following information in respect of the calendar year:
 - a. the number of fumigations using methyl bromide carried out at the site;
 - b. the total amount of methyl bromide applied at the site;
 - c. the types of enclosed spaces to which methyl bromide has been applied;
 - d. the types of equipment used to carry out the monitoring of methyl bromide;
 - e. the annual exposure level;
 - f. approximate total amount of methyl bromide discharged;
 - g. number of notifications made in accordance with clause 3(2), identified by each monitoring location;
 - h. how many times the exposure levels exceeded the TELair value;
 - i. if a breach of a TELair value has occurred, an outline of what risk mitigation measures have been or are being put in place; and
 - j. any accidents or other issues related to non-compliance with any of the controls under this approval.
5. The person in charge of the site must provide the annual monitoring report to ERMA New Zealand, Department of Labour, and the relevant Medical Officer of Health by 30 June of the following year.

Clause 3 of table 2 of the EPA decision document: 1 hour and 24 hour exposure levels

1. The person in charge of the site must, for each monitoring location, keep a record of the following information for every ventilation:
 - 1 hour exposure level; and 24 hour exposure level.
2. The person in charge of the site must notify Department of Labour and the relevant Medical Officer of Health as soon as practicable, but within 5 working days, if either the:
 - a. 1 hour exposure level exceeds the 1 hour TELair value for methyl bromide; or
 - 24 hour exposure level exceeds the 24 hour TELair value for methyl bromide.