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The *Workers Compensation Act* requires that the employer must post a copy of this report in a conspicuous place at or near the workplace inspected for at least seven days, or until compliance has been achieved, whichever is the longer period. A copy of this report must also be given to the joint committee or worker health and safety representative, as applicable.

**Inspection Report #201516310083A**

Employer Name	Jobsite Inspected	Scope of Inspection
THOMPSON RIVERS UNIVERSITY	900 MCGILL RD KAMLOOPS BC V2C 5N3	UNIVERSITY COLLEGE OF THE CARIBOO

Date of Initiating Inspection	Date of This Inspection	Delivery Date of This Report	Delivery Method
Mar 11, 2015	Mar 11, 2015	Mar 11, 2015	Email

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**THERE ARE ZERO (0) ORDERS OUTSTANDING**

**ACTION MAY STILL BE NECESSARY TO ENSURE COMPLIANCE  
PLEASE READ FULL REPORT**

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## INSPECTION NOTES

On March 11, 2015, Hygiene Officer Lisa Durack met with worker representatives at this site to discuss the safety precautions that are in place and may be required for work in the chemistry department with nuclear magnetic resonance spectroscopy (NMR).

The NMR is located in a room on the second floor of the Sciences and Health Sciences Building. The room is fairly small, equipped with a desk, computer, the electronics for the NMR, the NMR and has windows on one side, looking into the adjacent lab. The HVAC system for the room is typical for all rooms in the building, with one inlet to the room and 2 outlets for return air into the building's shared ceiling space. A fixed oxygen sensor has been installed in the room, with a external flashing light located above the main door from the hallway. This light will flash when the oxygen level in the room is detected to be 18.5% or less. The instrument technician stated that prior to the instrument being mounted permanently in the room, it was calibrated outside where oxygen levels are expected to be 20.9%. It was unknown as to the required calibration or bump test frequency recommended by the manufacturer, which should be determined and calibrated as required to ensure accuracy of the sensor. The highlights from the datasheet for this Alpha Omega Instrument Series 1000 oxygen sensor states the following:

- 3 year sensor warranty
- detects oxygen alarms events in seconds
- extended life sensor with an expected life of 5 years
- back up battery is optional

There is currently no procedure in place to manage a failure of the NMR. If a failure occurred, the liquid helium used to cool the magnet would be 'boiled off' and this would be vented to the outside of the building. However, it is possible that nitrogen gas may be released into the room during a failure. The procedures require an assessment of the worst-case scenario and a calculation is required to determine the maximum available nitrogen that could be released into the NMR room, which may then flow into adjacent room, and into the HVAC system. This will provide information that can be used to determine the required emergency evacuation protocol, including who to notify, how notification will be conducted, extent of the evacuation, etc.

There were two 5 minute escape Self Contained Breathing Apparatus (SCBA) bottles located in the chemistry storage room cupboard. These were observed to be dated as manufactured October 4, 1984. As per OHS 8.37, the following is required - (1) *Compressed breathing air supplied for equipment such as an SCBA and a supplied air respirator must be tested at least annually to ensure that the air being supplied meets the requirements of CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems.*

(2) *If an SCBA cylinder has not been used for a period in excess of one year, air in the cylinder must be slowly depressurized to atmosphere and refilled with compressed breathing air that meets the requirements of CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems.*

This information may assist the employer in determining the course of action taken in terms of retaining the escape SCBA bottles.

If there are any questions regarding the items noted in this inspection report, please contact Lisa Durack @ 250-314-6059 or [lisa.durack@worksafebc.com](mailto:lisa.durack@worksafebc.com) for further clarification or other assistance.

More information can be found under the Workers Compensation Act and the Occupational Health and Safety Regulation at the following website: [www.worksafebc.com](http://www.worksafebc.com)

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## REFERENCES

In addition to any orders and the information provided in the Inspection Notes in this Inspection Report, the officer may discuss other health and safety issues with the employer arising out of the inspection. The information below sets out the health and safety requirements discussed with the employer, and unless otherwise noted, violations of these requirements were not observed.

Reference	Details Discussed
<b>OHS8.37(1)</b>  Compressed breathing air supplied for equipment such as an SCBA and a supplied air respirator must be tested at least annually to ensure that the air being supplied meets the requirements of CSA Standard CAN/CSA Z180.1-00, Compressed Breathing Air and Systems.	See inspection notes
<b>OHS8.37(2)</b>  If an SCBA cylinder has not been used for a period in excess of one year, air in the cylinder must be slowly depressurized to atmosphere and refilled with compressed breathing air that meets the requirements of CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems.	See inspection notes

Employer #	Mailing Address	Classification Unit #	Operating Location
157412	HEALTH AND SAFETY DEPARTMENT 900 MCGILL RD KAMLOOPS BC V2C 0C8	765010	001

Lab Samples Taken	Direct Readings	Results Presented	Sampling Inspection(s)
N	N	N	

Workers onsite during Inspection	Notice of Project Number
500	

Inspection Report Delivered To	Employer Representative Present During Inspection	Worker Representative Present During Inspection	Labour Organization & Local
Gordon Maurits	not available	Trent Hammer	

WorkSafeBC Officer Conducting Inspection
Lisa Durack

*Inspection Time	*Travel Time
2.25 hrs	0.75 hrs

\*The time recorded above reflects the cumulative inspection time and travel time associated to the inspection activity cycle. Additional time may be added for subsequent activity.

### Right to a Review of Orders

**Any employer, worker, owner, supplier, union, or a member of a deceased worker's family directly affected may, within 90 calendar days of the delivery date of this report, in writing, request the Review Division of WorkSafeBC to conduct a review of an order, or the non-issuance of an order, in this report by contacting the Review Division. Employers requiring assistance may contact the Employers' Advisers at 1-800-925-2233.**

WorkSafeBC values your feedback. To obtain that feedback, our external market research provider may be contacting you to complete a survey.