

6951 Westminster Highway, Richmond, BC  
 Mailing Address: PO Box 5350 Stn Terminal, Vancouver BC, V6B 5L5  
 Telephone 604 276-3100 Toll Free 1-888-621-7233 Fax 604 276-3247

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.

A revised version of the *Workers Compensation Act* took effect on April 6, 2020. The B.C. government's revisions aim to make the Act easier to read and understand, and to reorganize the numbering to make laws easier to find. The revisions make no changes to B.C.'s laws concerning workers' compensation, occupational health and safety, and employers' assessment premiums. Please be aware there may be a transitional period where correspondence from WorkSafeBC may include references to either the previous Act or the revised Act. For more information, visit [www.worksafebc.com/WCA2019](http://www.worksafebc.com/WCA2019) or call the Prevention Information Line at 604.276.3100, or toll free within BC at 1.888.621.7233 (SAFE).

**Inspection Report #202118282055C**

Employer Name	Jobsite Inspected	Scope of Inspection
SIMON FRASER UNIVERSITY	8888 11 University Drive Burnaby BC V5A 1S6	Indoor Air Quality Investigation

Date of Initiating Inspection	Date of This Inspection	Delivery Date of This Report	Delivery Method
Dec 09, 2021	Apr 13, 2022	Apr 13, 2022	Email

**THERE ARE ZERO (0) ORDERS OR OTHER ITEMS OUTSTANDING**

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

**Summary of Orders or other Items**

See "Orders/Items – Full Details" section of this Inspection Report for orders/items cited

Order/Item No.1 <input checked="" type="checkbox"/>	Status: <b>Complied</b>	Cited: <b>OHS4.79(2)(a)</b>
Order/Item No.2 <input checked="" type="checkbox"/>	Status: <b>Complied</b>	Cited: <b>OHS4.79(2)(b)</b>

**ORDER STATUS LEGEND**

Order Status	Description
Outstanding	Order Outstanding - Action Required to Achieve Compliance
Complied	Compliance Achieved - No Further Action Required
Closed	Order is Closed
Rescinded	Order has been cancelled - No Further Action Required

## INSPECTION NOTES

This Inspection Report (IR) has been issued to document the employer's progress towards compliance with the orders issued in IR202118282055A. See IR202118282055A for the background information.

On March 18, 2022, the employer representative sent an electronic copy of an indoor air quality (IAQ) assessment that was conducted in the South Sciences Building (SSB), Technology and Science Complex 1 (TASC1), and Technology and Science Complex 2 (TASC2) January 21, 2022, February 8, 2022, February 18, 2022, and March 1, 2022:

- "952\_R03\_SFU\_IAQ\_Assessment (TASC1-TASC2-SSB) FINAL\_V3 (March 9, 2022)", dated March 16, 2022

Based on the above referenced IAQ assessment, orders #1 and #2 have been complied.

On April 13, 2022, I spoke to the employer representative by phone. The employer representative stated that the EHS Department has not received any odour complaints since approximately mid-January 2022. Start ups and shut downs of the Corix biomass plant have occurred between mid-January 2022 and today, but have not resulted in any odour complaints. The employer representative stated that they will continue to check in regularly with the workers in the affected buildings to verify that there are no additional odour complaints.

## **CONTACT INFORMATION**

If you have any questions or require additional information regarding this report, please contact me via the following:

Ajla Duranovic, M.Sc.A.  
Occupational Hygiene Officer  
Prevention Field Services  
E-mail: [ajla.duranovic@worksafebc.com](mailto:ajla.duranovic@worksafebc.com)

Mailing address: PO Box 5350 Stn Terminal, Vancouver BC V6B 5L5  
[worksafebc.com](http://worksafebc.com) | P 604.232.5965 | F 604.232.5950  
Call Centre 1.888.621.7233

To report a serious accident/incident or a major chemical release, please call:

604.276.3100 in the Lower Mainland  
1.888.621.7233 within BC (toll-free)

To report after hours health and safety emergencies, please call:

1.866.922.4357 within BC (toll-free)

Additional information regarding health and safety, including the Workers Compensation Act and Occupational Health and Safety Regulation, may be found at the WorkSafeBC website ([www.worksafebc.com](http://www.worksafebc.com)).

This was a follow-up inspection to authenticate appropriate compliance with the order(s) noted.

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**ORDERS/ITEMS**

**An employer who fails to comply with Occupational Health and Safety ("OHS") provisions of the *Workers Compensation Act*, the Occupational Health & Safety Regulation, or WorkSafeBC orders may be subject to monetary or other sanctions as prescribed by the *Workers Compensation Act*.**

**Orders/Items - Full Details**Order/Item No.1 Status: **Complied**Cited: **OHS4.79(2)(a)****Progress towards compliance:**

Apr 13, 2022 - On March 18, 2022, the employer representative sent an electronic copy of an indoor air quality (IAQ) assessment that was conducted in the South Sciences Building (SSB), Technology and Science Complex 1 (TASC1), and Technology and Science Complex 2 (TASC2):

- "952\_R03\_SFU\_IAQ\_Assessment (TASC1-TASC2-SSB) FINAL\_V3 (March 9, 2022)", dated March 16, 2022

The outdoor concentrations were noted in the above referenced IAQ assessment to be between 416 and 440 parts per million (ppm). Therefore, based on section 4.79(2)(a), indoor concentrations must be less than 1,064 and 1,090 ppm.

The above referenced IAQ assessment included spot measurements of carbon dioxide (CO<sub>2</sub>) in several locations throughout SSC, TASC1, and TASC2; indoor concentrations of CO<sub>2</sub> were found to be significantly less than 1,000 ppm.

Based on the above referenced IAQ assessment, this order has been complied.

Mar 10, 2022 - On January 28, 2022, the employer representative provided electronic copies of the following documents:

- Notice of Compliance ("NOC") report, dated January 28, 2021
- "South Science Building and TASC 2 Odour Investigation Summary Report"

Additional indoor air quality investigations were conducted by a third party consultant on January 31, 2022 during start up activities at Corix and in February 2022. A report of those investigations will be provided as soon as is available.

Compliance is in progress.

**Orders/Items - Full Details**

**Initiating order:**

Dec 09, 2021 - An employer representative stated that workers began reporting indoor air quality ("IAQ") concerns as of October 2020. The employer retained two separate third-party consultants to conduct IAQ investigations as follows:

- An initial IAQ investigation was conducted from March 11, 2021 until April 6, 2021 ("SFU Air Quality Screen Measurements", April 27, 2021).
- A subsequent IAQ investigation was conducted from September 17, 2021 until September 27, 2021 ("Corix Biomass Burner SFU Burnaby Campus", October 15, 2021).

Neither of the IAQ investigations include an assessment of the ventilation rate or identify whether the carbon dioxide levels within the buildings are less than 650 ppm above the ambient outdoor levels.

This is in contravention of the Occupational Health and Safety Regulation Section 4.79(2)(a).

An air quality investigation must include assessment of the ventilation rate, unless the indoor carbon dioxide level is less than 650 ppm above ambient outdoor levels.

Note: in Subsection (2)(a) carbon dioxide is considered a marker indicator of sufficient outdoor air, not as a toxic air contaminant for which the exposure limit in Table 5-4 would apply. Normally, ambient levels are approximately 350 ppm, but may be higher in locations such as urban areas or during weather conditions such as inversions. Ambient levels may be assumed to be 350 ppm unless sampling establishes otherwise.

**Measures to Ensure Compliance:**

The employer must provide this Officer a copy of the IAQ investigation by January 28, 2022.

Order/Item No.2 <input checked="" type="checkbox"/>	Status: <b>Complied</b>	Cited: <b>OHS4.79(2)(b)</b>
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**Progress towards compliance:**

Apr 13, 2022 - On March 18, 2022, the employer representative sent an electronic copy of an indoor air quality (IAQ) assessment that was conducted in the South Sciences Building (SSB), Technology and Science Complex 1 (TASC1), and Technology and Science Complex 2 (TASC2):

- "952\_R03\_SFU\_IAQ\_Assessment (TASC1-TASC2-SSB) FINAL\_V3 (March 9, 2022)", dated March 16, 2022

The above referenced IAQ assessment noted the following:

- A walk through inspection was conducted of the HVAC system in SSB, TASC1, and TASC2 was completed on January 21, 2022. Additional, drawings were reviewed to identify any potential contaminant sources.
- No potential contaminant sources were identified by the inspection of the HVAC system.
- The HVAC system appeared to be clean and in good working order, supplying all areas of the buildings assessed with an adequate supply of conditioned air and fresh outside air.
- Many air handling units had the current filters replaced with charcoal-coated filters.

Based on the above referenced IAQ assessment as well as the documents provided on January 28, 2022, this order has been complied.

**Orders/Items - Full Details**

Mar 10, 2022 - On January 28, 2022, the employer representative provided electronic copies of the following documents:

- Notice of Compliance ("NOC") report, dated January 28, 2021
- "South Science Building and TASC 2 Odour Investigation Summary Report"

Additional indoor air quality investigations were conducted by a third party consultant on January 31, 2022 during start up activities at Corix and in February 2022. A report of those investigations will be provided as soon is available.

Compliance is in progress.

**Initiating order:**

Dec 09, 2021 - An employer representative stated that workers began reporting indoor air quality ("IAQ") concerns as of October 2020. The employer retained two separate third-party consultants to conduct IAQ investigations as follows:

- An initial IAQ investigation was conducted from March 11, 2021 until April 6, 2021 ("SFU Air Quality Screen Measurements", April 27, 2021).
- A subsequent IAQ investigation was conducted from September 17, 2021 until September 27, 2021 ("Corix Biomass Burner SFU Burnaby Campus", October 15, 2021).

The above referenced IAQ investigations do not include an inspection of the ventilation system as required in section 4.78(2) of the *OHS Regulation*.

This is in contravention of the Occupational Health and Safety Regulation Section 4.79(2)(b).

An air quality investigation must include inspection of the ventilation system as required in section 4.78(2).

**Measures to Ensure Compliance:**

The employer must provide this Officer a copy of the IAQ investigation by January 28, 2022.

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Employer #	Mailing Address	Classification Unit #	Operating Location
112786	8888 UNIVERSITY DR BURNABY BC V5A 1S6	765010	001

Lab Samples Taken	Direct Readings	Results Presented	Sampling Inspection(s)	Workers onsite during Inspection	Notice of Project Number
N	N	N		8	

Inspection Report Delivered To	Employer Representative Present During Inspection	Worker Representative Present During Inspection	Labour Organization & Local
Sandra Stan	Sandra Stan	Not Applicable	

WorkSafeBC Officer Conducting Inspection
Ajla Duranovic

*Inspection Time	*Travel Time
3.25 hrs	0.00 hrs

\*The time recorded above reflects the inspection time and travel time associated with this inspection report and includes time spent on pre and post-inspection activities. Additional time may be added for subsequent activity.

### **Request a Review**

**Any employer, worker, owner, supplier, union, or a member of a deceased worker's family directly affected may, within 45 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, by contacting the Review Division. Employers requiring assistance may contact the Employers' Advisers Office at 1-800-925-2233.**

**To submit a request online, visit <https://www.worksafebc.com/en/review-appeal/submit-request>**

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