

**Phase 5 - 2012  
Radon level testing result**

**Department of Education and  
Early Childhood Development**

**Building Information** 2501

<b>Maximum</b>	<b>70.0 Bq/m<sup>3</sup></b>
<b>Action</b>	<b>No action required</b>

**District No.:** 17  
**Building Name:** Burton Elementary School  
**Street Address:** 412 Route 102  
**City:** Burton  
**Year constructed** 1961  
**Floors below grade** Not Indicated  
**Floors above grade** Not Indicated  
**Ventilation System (Y/N)** Not Indicated  
  
**Facilities Manager:** Not Indicated  
**Phone Number:** Not Indicated  
**Name of Person Placing Detector** Not Indicated  
**Phone Number:** Not Indicated

Serial Number	Start Date	End Date	Room No.	Floor	Duration	Radon Bq/m <sup>3</sup>	Notes	Q.A.	RDP
230509	#####	30/04/2012	Gym	Basem	102	70.0			
243723	#####	30/04/2012	2	Basem	102	52.0			
243724	#####	30/04/2012	8	1	102	37.0			
243725	#####	30/04/2012	11	1	102	33.0			

**Legend / Légende**

**<15 Bq/m<sup>3</sup>**

Values that are less than 15 Bq/m<sup>3</sup> are below the limit of quantitation. Les valeurs qui sont à moins de 15 Bq/m<sup>3</sup> sont au-dessous de la limite de quantification

**Follow-up test**

As all measurements will contain some error, the difference between the "true" value and the measured, the error or uncertainty of the analysis is determined to be only 10 percent. As the concentration of radon measured is between 175 and 225 Bq/m<sup>3</sup>, Health Canada recommends a follow-up radon test.

**Test de suivi**

Puisque toutes les mesures peuvent contenir des erreurs, la différence entre la valeur «réelle» et la valeur mesurée, le taux d'erreur ou d'incertitude est limité à seulement 10 %. Étant donné que la concentration de radon mesurée est comprise entre 175 et 225 Bq/m<sup>3</sup>, Santé Canada recommande d'effectuer un test de suivi.

**Retest**

In reviewing the data, we have noted a possible anomaly with a measurement. Therefore Health Canada recommends a retest.

**Recommencer le test**

L'analyse des données révèle une anomalie possible avec la mesure. Santé Canada recommande en conséquence de recommencer le test.

**Follow-up: Duplicate/Blank + test**

Health Canada performs quality control measurements during radon testing in buildings at a frequency of 1 duplicate detector and one blank detector for every 10 and 20 measurement detectors respectively. In reviewing the data for the analysis of the radon measurements, we have noted an anomaly with a blank or a duplicate detector at one measurement location. Therefore according to Health Canada protocols we recommend a follow-up test of radon levels at that location in the building.

**Suivi : Test avec un détecteur à échantillon répété et test avec un détecteur à échantillon à blanc**

Santé Canada effectue des évaluations de contrôle de la qualité pendant les tests de radon dans les immeubles à l'aide de un (1) détecteur échantillon répété et de un détecteur à échantillon à blanc respectivement pour tous les 10 et 20 détecteurs de mesure utilisés. L'analyse des données mesurées a révélé une anomalie dans le détecteur à échantillon répété ou dans le détecteur à à un endroit échantillon à blanc de mesure. Par conséquent, d'après les protocoles de Santé Canada, nous vous recommandons un test de suivi pour les niveaux de radon à cet endroit de l'immeuble.

**Reduce radon 1 / Réduire radon 1**

In the rooms that tested between 225–600 Bq/m<sup>3</sup>, Health Canada recommends taking steps to reduce the radon level within 2 years.

Dans les pièces où le niveau de radon se trouve entre 225 et 600 Bq/m<sup>3</sup>, Santé Canada recommande que des mesures correctives soient prises pour réduire les niveaux de radon d'ici deux ans.

**Phase 4 - 2011  
Radon level testing result**
**Department of Education and  
Early Childhood Development**
**Building Information**

2506

<b>Maximum</b>	<b>41.0 Bq/m<sup>3</sup></b>
<b>Action</b>	<b>No action required</b>

**District No.:** 17  
**Building Name:** Assiniboine Avenue Elementary School  
**Street Address:** 55 Assiniboine Avenue  
**City:** Oromocto  
**Year constructed** 1957  
**Floors below grade** Not Indicated  
**Floors above grade** Not Indicated  
**Ventilation System (Y/N)** Not Indicated  
  
**Facilities Manager:** Not Indicated  
**Phone Number:** Not Indicated  
**Name of Person Placing Detectors:** Not Indicated  
**Phone Number:** Not Indicated

Serial Number	Start Date	End Date	Room No.	Floor	Duration	Radon Bq/m <sup>3</sup>	Notes	Q.A.	RDP
228937	05/01/2011	19/04/2011	129	1	104	22.0			
228941	05/01/2011	19/04/2011	130	1	104	26.0			
228943	05/01/2011	19/04/2011	131	1	104	22.0			
228942	05/01/2011	19/04/2011	139	1	104	22.0			
228939	05/01/2011	19/04/2011	140	1	104	18.0			
228940	05/01/2011	19/04/2011	140	1	104	22.0		duplicate	20%
228938	05/01/2011	19/04/2011	141	1	104	33.0			
228934	05/01/2011	19/04/2011	123A	1	104	18.0			
228935	05/01/2011	19/04/2011	123B	1	104	37.0			
228936	05/01/2011	19/04/2011	123C	1	104	22.0			
228948	05/01/2011		Gym	1			missing		
228949	05/01/2011	19/04/2011	Gym	1	104	41.0			
228947	05/01/2011	19/04/2011	206	2	104	18.0			
228945	05/01/2011	19/04/2011	208	2	104	15.0			
228944	05/01/2011	19/04/2011	213	2	104	30.0			
228946	05/01/2011	19/04/2011	217	2	104	18.0			

**Legend / Légende**
**<15 Bq/m<sup>3</sup>**

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 Les valeurs qui sont à moins de 15 Bq/m<sup>3</sup> sont au-dessous de la limite de quantification

**Follow-up test**

 As all measurements will contain some error, the difference between the "true" value and the measured, the error or uncertainty of the analysis is determined to be only 10 percent. As the concentration of radon measured is between 175 and 225 Bq/m<sup>3</sup>, Health Canada recommends a follow-up radon test.

**Test de suivi**

 Puisque toutes les mesures peuvent contenir des erreurs, la différence entre la valeur «réelle» et la valeur mesurée, le taux d'erreur ou d'incertitude est limité à seulement 10 %. Étant donné que la concentration de radon mesurée est comprise entre 175 et 225 Bq/m<sup>3</sup>, Santé Canada recommande d'effectuer un test de suivi.

**Retest**

In reviewing the data, we have noted a possible anomaly with a measurement. Therefore Health Canada recommends a retest.

**Recommencer le test**

L'analyse des données révèle une anomalie possible avec la mesure. Santé Canada recommande en conséquence de recommencer le test.

**Follow-up: Duplicate/Blank + test**

Health Canada performs quality control measurements during radon testing in buildings at a frequency of 1 duplicate detector and one blank detector for every 10 and 20 measurement detectors respectively. In reviewing the data for the analysis of the radon measurements, we have noted an anomaly with a blank or a duplicate detector at one measurement location. Therefore according to Health Canada protocols we recommend a follow-up test of radon levels at that location in the building.

**Suivi : Test avec un détecteur à échantillon répété et test avec un détecteur à échantillon à blanc**

Santé Canada effectue des évaluations de contrôle de la qualité pendant les tests de radon dans les immeubles à l'aide de un (1) détecteur échantillon répété et de un détecteur à échantillon à blanc respectivement pour tous les 10 et 20 détecteurs de mesure utilisés. L'analyse des données mesurées a révélé une anomalie dans le détecteur à échantillon répété ou dans le détecteur à un endroit échantillon à blanc de mesure. Par conséquent, d'après les protocoles de Santé Canada, nous vous recommandons un test de suivi pour les niveaux de radon à cet endroit de l'immeuble.

**Reduce radon 1 / Réduire radon 1**

In the rooms that tested between 225–600 Bq/m<sup>3</sup>, Health Canada recommends taking steps to reduce the radon level within 2 years.

Dans les pièces où le niveau de radon se trouve entre 225 et 600 Bq/m<sup>3</sup>, Santé Canada recommande que des mesures

**Phase 6 - 2013  
Radon level testing result**

**Department of Education and  
Early Childhood Development**

<b>Building Information</b>	2509	<b>Maximum</b>	107.0 Bq/m <sup>3</sup>
		<b>Action</b>	No action required

**District No.:** ASD-W  
**Building Name:** Hubbard Avenue Elementary School  
**Street Address:** 50 Hubbard Avenue  
**City:** Oromocto  
**Year constructed** 1957  
**Floors below grade** Not Indicated  
**Floors above grade** Not Indicated  
**Ventilation System (Y/N)** Not Indicated

**Facilities Manager:** Philip Cliff  
**Phone Number:** 506-444-5981  
**Name of Person Placing Detectors:** Not Indicated  
**Phone Number:** Not Indicated

Serial Number	Start Date	End Date	Room No.	Floor	Duration	Radon Bq/m <sup>3</sup>	Notes	Q.A.	RDP
613712	03/01/2013	02/05/2013	1	1	119	15.0			
613720	03/01/2013	02/05/2013	13	1	119	11.0			
613721	03/01/2013	02/05/2013	24	1	119	18.0			
613718	03/01/2013	02/05/2013	25	1	119	15.0			
613714	03/01/2013	02/05/2013	26	1	119	33.0			
613707	03/01/2013	02/05/2013	27	1	119	30.0			
613709	03/01/2013	02/05/2013	36	1	119	26.0			
613719	03/01/2013	02/05/2013	37	1	119	63.0			
613711	03/01/2013	02/05/2013	38	1	119	11.0			
613704	03/01/2013	02/05/2013	43	1	119	18.0			
613705	03/01/2013	02/05/2013	43	1	119	18.0	duplicate		0%
613706	03/01/2013	02/05/2013	43	1	119	11.0	blank		
613708	03/01/2013	02/05/2013	57	1	119	107.0			
613703	03/01/2013	02/05/2013	70	1	119	18.0			
613710	03/01/2013	02/05/2013	70	1	119	22.0			
613713	03/01/2013	02/05/2013	71	1	119	15.0			
613702	03/01/2013	02/05/2013	72	1	119	22.0			
613701	03/01/2013	02/05/2013	73	1	119	26.0			
613700	03/01/2013	02/05/2013	74	1	119	30.0			
613695	03/01/2013	02/05/2013	78	1	119	22.0			
613696	03/01/2013	02/05/2013	78	1	119	15.0	duplicate		38%
613694	03/01/2013	02/05/2013	82	1	119	48.0			
613697	03/01/2013	02/05/2013	84	1	119	26.0			
613692	03/01/2013	02/05/2013	85	1	119	11.0			
613688	03/01/2013	02/05/2013	87	1	119	18.0			
613690	03/01/2013	02/05/2013	88	1	119	22.0			
613689	03/01/2013	02/05/2013	89	1	119	18.0			
613715	03/01/2013	02/05/2013	31/32	1	119	15.0			
613693	03/01/2013	02/05/2013	86A	1	119	26.0			
613691	03/01/2013	02/05/2013	86B	1	119	15.0			
613716	03/01/2013	02/05/2013	library Offic	1	119	15.0			
613717	03/01/2013	02/05/2013	library Offic	1	119	18.0	duplicate		18%
613698	03/01/2013	02/05/2013	Sno Room	1	119	100.0			
613699	03/01/2013	02/05/2013	Stage	1	119	26.0			

**Legend / Légende**

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INDOOR AIR QUALITY PROTOCOL FOR SCHOOLS

Category: Facilities

Draft: August 2013

**Policy Statement**

With an increase in air quality concerns in schools, there is a need for consistent procedures. The focus of the policy is to ensure that students and all staff and the public are protected. Anglophone West School District values the health of its students and staff and is committed to providing a scent-reduced learning/working environment.

Three aspects of a good indoor environment are; control of airborne pollutants, proper fresh air distribution and good housekeeping.

Unlike other buildings, schools have unique characteristics;

- They are primarily designed for and occupied by children.
- Occupant densities are higher - a typical school has approximately four times as many occupants as office buildings with the same amount of floor space.
- Schools are used for a variety of activities: offices, classrooms, kitchens, staff rooms, industrial arts, chemistry and biology labs, art, gym, etc.

The most common indicator of an indoor environmental concern is occupant complaint. Establishing a means to record and track complaints is the foundation of this protocol. It is imperative that each step be documented.

**Procedures**

1. Good air quality begins with good housekeeping practices, regular maintenance and instructional activities that do not contribute to poor indoor air quality; however, when an indoor air quality concern is suspected a Referral Form shall be completed and submitted to the School Principal. The Principal, the School Health and Safety Committee and the Indoor Air Quality Coordinator are provided with copies of the Referral Forms will review the referral to determine if the concern can be resolved at the school level.
2. Whenever possible, purchase cleaning products that are free from added fragrance. Ensure that products used in our facilities are used in a safe and effective manner.
3. Referrals that contain issues with a specifically identified medical component, or those requiring action beyond the capability of the school staff shall be forwarded to the District's Environmental/Health & Safety Coordinator.
4. If necessary, a site visit will be promptly arranged to ensure that mechanical systems in the school are operating properly and that all appropriate maintenance has been performed. Following this visit, a status report will be forwarded to the School Principal.

INDOOR AIR QUALITY PROTOCOL FOR SCHOOLS

Category: Facilities

Draft: August 2013

5. If no obvious cause is found, a more intensive investigation will be carried out. If concerns are not able to be resolved at the District level, other government departments and/or agencies will be consulted.
6. During an investigation, there must be regularly on-going communication between the investigators and the school.
7. **Filing a Report**
  - a. In order for this policy protocol to be activated, any employee who suspects that an environmental health risk exists, is required to file a written report (**IEQ1**) with the school Principal and with the School Health and Safety Committee.
  - b. This record will be kept at the school level, with a copy forwarded to the Education Centre. An action plan and assessment will be put in place the same day.
8. **Assessment/Action Plan**
  - a. The school Principal or designate will do a preliminary assessment of the situation. Any steps, which can be taken locally, will be done and noted on the report. Any action taken or planned action will be reported to the complainant within 48 hours/2 working days. This will be done on form **IEQ1**.
  - b. If the situation cannot be resolved at the school level, the principal will, within 48 hours of receipt of the complaint, inform the District Facility Management of the expressed concern (via E-mail or Fax) and will forward a copy of the report.
  - c. Upon receiving a written report from a Principal, the District Facility
    - i. Management or designate will, within 5 days, file a report with
    - ii. recommendations to the Principal with a copy to the Superintendent.
  - d. All information received as the result of the action plan will be distributed to the Principal.
  - e. Upon receipt of the District Facility Management's Report, or additional information under section 2.4, the Principal will forward the information to the appropriate staff, and School Health and Safety Committee.
  - f. When the District Facility Management has finished their assessment and no solution has been found, the District Facility Management will advise the Superintendent of the problem. The District Facility Management will also advise the Department of Education and the Department of Health of the problem, meeting with both departments within 5 working days. Should the Department of Education and Early Childhood Development advise, the Department of Supply and Services will also be involved at this time.
  - g. At this point, no more than 2 - 3 working weeks should have elapsed, since the initial complaint was given to the Principal.





**INDOOR AIR QUALITY PROTOCOL FOR SCHOOLS**

Category: Facilities

Draft: August 2013

- h. Should the Department of Education and Early Childhood Development, Department of Health and Facility Management deem it necessary, a team of different disciplines will be put together at this time. The team will be made up of the Superintendent/designate, Principal, Department of Education, Department of Health, Department of Supply and Services, Facility Management, and a W.H.S.C.C. officer.

**Reference**

