



## Cape Breton Highlands Education Centre/Academy

### Short-term and Long-term Radon Test Results

NOTE: The current Health Canada guideline for radon in indoor air for dwellings is 200 Becquerels per cubic metre (200 Bq/m<sup>3</sup>). The Becquerel is a unit that describes one radioactive disintegration per second.

Information to Students, Parents/Guardians and Staff of the Cape Breton Highlands Education Centre/Academy School Community – January 13, 2014

Table 1-1 ALPHA II Radon Detector/Monitor Interval Report

School	Cape Breton Highlands	Start Time (hh:mm)	13:23	Measurement Time (Hours)	1	Average [Rn] (pCi/l)	0.19								
Location	Room 111	Start Date (mm/dd/yyyy)	05-Aug-13	Conducted by:	AJ	Comments:	Room 111 is a classroom. This room is occupied between 07:30 Hrs and 16:30 Hrs								
Serial Number	18531	Sensitivity	f1=5.75	End Date	08-Aug-13										
ALPHA II Radon Detector/Monitor Data				Converted Measurements				Averages							
Tamper	Hour	[Rn](pCi/l)	Alpha Count	Tamper	Hour	[Rn](pCi/l)	Alpha Count	Time of Day	pCi/l	bq/m3	Time of Day	pCi/l	bq/m3	Occupied	Unoccupied
	1	0	1		33	0.19	73	1:23:00 PM	0	0	9:23:00 PM	0.19	7.03	0	0
	2	0	1		34	0.19	75		0	0		0.19	7.03	0	0
	3	0	1		35	0.19	77		0	0		0.19	7.03	0	0
	4	0.19	3		36	1.18	84		0.19	7.03	12:23:00 AM	1.18	43.66	0.78	28.86
	5	0	4		37	0.59	88	5:23:00 PM	0	0		0.59	21.83	0.19	7.03
	6	0.39	7		38	0.98	94		0.39	14.43		0.98	36.26	0	0
	7	0.19	9		39	0.59	98		0.19	7.03		0.59	21.83	0	0
	8	0.39	12		40	0.59	102		0.39	14.43		0.59	21.83	0	0
	9	0.59	16		41	0.98	108		0.59	21.83		0.98	36.26	0.19	7.03
	10	0.19	18		42	0.59	112		0.19	7.03		0.59	21.83	0	0
	11	0	19		43	0.59	116		0	0	7:23:00 AM	0.59	21.83	0	0
	12	0.19	21		44	0.39	119	12:23:00 AM	0.19	7.03		0.39	14.43	0.39	14.43
	13	0.78	26		45	0.19	121		0.78	28.86		0.19	7.03	0.19	7.03
	14	0.39	29		46	0	121		0.39	14.43		0	0	0	0
	15	0.59	33		47	0	121		0.59	21.83		0	0	0	0
	16	0.39	36		48	0	122		0.39	14.43	12:23:00 PM	0	0	0	0
	17	0.39	39		49	0	122		0.39	14.43		0	0	0	0
	18	0.59	43		50	0	123		0.59	21.83		0	0	0	0
	19	0.78	48		51	0	124	7:23:00 AM	0.78	28.86		0	0	0	0
	20	0.78	53		52	0	125		0.78	28.86		0	0	<b>Total</b>	<b>3.39</b>
	21	0.19	55		53	0.19	127		0.19	7.03	5:23:00 PM	0.19	7.03		0.59
	22	0	56		54	0.39	130		0	0		0.39	14.43		21.83
	23	0	57		55	0	130		0	0		0	0		7.03
	24	0	57		56	0.39	133	12:23:00 PM	0	0		0.39	14.43		7.03
	25	0.19	59		57	0.19	135		0.19	7.03		0.19	7.03		43.66
	26	0	60		58	0.19	137		0	0		0.19	7.03		21.83
	27	0	61		59	0.39	140		0	0		0.39	14.43		36.26
	28	0	62		60	0	140		0	0	12:23:00 AM	0	0		21.83
	29	0	62		61	0.98	146	5:23:00 PM	0	0		0.98	36.26		21.83
	30	0.39	65		62	0.19	148		0.39	14.43		0.19	7.03		36.26
	31	0.19	67		63	1.18	155		0.19	7.03		1.18	43.66		21.83
	32	0.59	71		64	1.37	163	8:23:00 PM	0.59	21.83	4:23:00 AM	1.37	50.69		21.83
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															43.66
															21.83
															50.69
															<b>Total</b>
															<b>15.89</b>

Short-term Average 12.181094

Long-term Radon Average	624 Bq/m3
Long-Term Occupied Radon= Long-term Radon x Short-term Average/Short-term Average	
	624x 3.39/12.18
	173.6748768
<b>Long-Term Occupied</b>	<b>173 Bq/m3</b>

Table 1-2 ALPHA II Radon Detector/Monitor Interval Report

School	Cape Breton Highlands	Start Time (hh:mm)	13:48	Measurement Time (Hours)	1	Average [Rn] (pCi/l)	1.17								
Location	Shop	Start Date (mm/dd/yyyy)	01-Aug-13	Conducted by:	AJ	Comments:	The shop is a woodworking classroom. This room is occupied between 07:30 Hrs and 16:30 Hrs								
Serial Number	23750	Sensitivity	F1=5.75	End Date	05-Aug-13										
ALPHA II Radon Detector/Monitor Data				Converted Measurements				Averages							
Tamper	Hour	[Rn](pCi/l)	Alpha Count	Tamper	Hour	[Rn](pCi/l)	Alpha Count	Time of Day	pCi/l	bq/m3	Time of Day	pCi/l	bq/m3	Occupied	Unoccupied
	1	0	1		33	0.19	73	1:48:00 PM	1.96	72.52	9:48:00 PM	0.78	28.86	1.96	72.52
	2	0	1		34	0.19	75		2.35	86.95		0.78	28.86	2.35	86.95
	3	0	1		35	0.19	77		1.76	65.12		1.17	43.29	1.56	57.72
	4	0.19	3		36	1.18	84		1.76	65.12	12:48:00 AM	0	0	1.17	43.29
	5	0	4		37	0.59	88	5:48:00 PM	1.76	65.12		0.98	36.26	0.19	7.03
	6	0.39	7		38	0.98	94		2.54	93.98		0.58	21.46	0.19	7.03
	7	0.19	9		39	0.59	98		2.94	108.78		2.54	93.98	0.39	14.43
	8	0.39	12		40	0.59	102		2.74	101.38		1.76	65.12	0.19	7.03
	9	0.59	16		41	0.98	108		1.96	72.52		1.76	65.12	0.58	21.46
	10	0.19	18		42	0.59	112		1.96	72.52		1.96	72.52	0.58	21.46
	11	0	19		43	0.59	116		1.96	72.52	7:48:00 AM	1.56	57.72	0.19	7.03
	12	0.19	21		44	0.39	119	12:48:00 AM	2.15	79.55		0.58	21.46	0	0
	13	0.78	26		45	0.19	121		3.52	130.24		0.19	7.03	0	0
	14	0.39	29		46	0	121		2.35	86.95		0	0	0	0
	15	0.59	33		47	0	121		2.35	86.95		0	0	0	0
	16	0.39	36		48	0	122		2.35	86.95	12:48:00 PM	0	0	0	0
	17	0.39	39		49	0	122		1.37	50.69		0	0	<b>Total</b>	<b>21.62</b>
	18	0.59	43		50	0	123		1.76	65.12		0	0		1.96
	19	0.78	48		51	0	124	7:48:00 AM	1.96	72.52		0.39	14.43		0
	20	0.78	53		52	0	125		1.56	57.72		0.58	21.46		0.19
	21	0.19	55		53	0.19	127		1.17	43.29	5:48:00 PM	1.37	50.69		7.03
	22	0	56		54	0.39	130		0.19	7.03		0.98	36.26		0.58
	23	0	57		55	0	130		0.19	7.03		0.98	36.26		0.78
	24	0	57		56	0.39	133	12:48:00 PM	0.39	14.43		0.39	14.43		0.78
	25	0.19	59		57	0.19	135		0.19	7.03		1.17	43.29		0.78
	26	0	60		58	0.19	137		0.58	21.46		1.96	72.52		0.78
	27	0	61		59	0.39	140		0	0		1.37	50.69		1.17
	28	0	62		60	0	140		0	0	12:48:00 AM	1.56	57.72		43.29
	29	0	62		61	0.98	146	5:48:00 PM	0.19	7.03		1.17	43.29		0.98
	30	0.39	65		62	0.19	148		0.19	7.03		1.96	72.52		21.46
	31	0.19	67		63	1.18	155		0.58	21.46		1.96	72.52		72.52
	32	0.59	71		64	1.37	163	8:48:00 PM	0.78	28.86	4:48:00 AM	1.37	50.69		72.52
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**Aqua-Check**  
 1801 Hollis Street, Suite 1220  
 Halifax, NS  
 B3J 3N4  
 (902)423-6030 (P)  
 (866)423-6030 (Toll free)  
 (902)423-6047 (F)

**Company**  
 Strait Regional School Board  
 16 Cemetary Road  
 Port Hastings, NS, B9A1K6

**Building**  
 CB Highlands Academy- Education Center  
 11070 Cabot Trail  
 Terre Noire, NS, B0E1C0  
 BuildingID: BL2358  
 PID:

**Building Contact**  
 Tara Gaskell  
 Phone: 902-747-3638

ReqID	Test	Electret	Floor	Room	Room Type	Location	Detector Height	Start	End	Days	IV	FV	BQ/m3	RPD
2012-4284	SLT	LS3272	main	n/a	gym	wall	2.00 m	2012-12-18 09:35	2013-04-15 10:25	117.99	599.00	569.00	<37	
2012-4283	SLT	LS3693	main	n/a	music	wall	2.00 m	2012-12-18 09:45	2013-04-15 10:15	117.98	568.00	39.00	1016	
2012-4282	SLT	LO6776	main	121	class	ceiling	2.00 m	2012-12-18 09:55	2013-04-15 11:00	118.00	474.00	447.00	<37	
2012-4281	SLT	LO1969	main	122	class	ceiling	2.00 m	2012-12-18 10:00	2013-04-15 10:35	117.98	492.00	452.00	<37	
2012-4281D	SLT	LS2997	main	122	class	ceiling	2.00 m	2012-12-18 10:00	2013-04-15 10:35	117.98	563.00	523.00	<37	4 %
2012-4279	SLT	LR8703	main	n/a	shop	ceiling	2.00 m	2012-12-18 10:10	2013-04-15 10:40	117.98	618.00	121.00	930	
2012-4278	SLT	LS3269	main	124	fitness	ceiling	2.00 m	2012-12-18 10:15	2013-04-15 10:45	117.98	569.00	527.00	<37	
2012-4278B	SLT	LR8771	main	124	fitness	ceiling	2.00 m	2012-12-18 10:15	2013-04-15 10:45	117.98	611.00	593.00	-14	
2012-4276	SLT	LS3219	main	127	class	ceiling	2.00 m	2012-12-18 10:25	2013-04-15 10:50	117.98	524.00	471.00	53	
2012-4275	SLT	LS0968	main	125	class	ceiling	2.00 m	2012-12-18 10:30	2013-04-15 10:32	117.96	550.00	510.00	<37	
2012-4274	SLT	LS3543	main	123	class	ceiling	2.00 m	2012-12-18 10:40	2013-04-15 10:30	117.95	566.00	529.00	<37	
2012-4273	SLT	LS0951	main	102	class	ceiling	2.00 m	2012-12-18 10:45	2013-04-15 09:50	117.92	540.00	500.00	<37	
2012-4273D	SLT	LS2303	main	102	class	ceiling	2.00 m	2012-12-18 10:45	2013-04-15 09:50	117.92	528.00	488.00	<37	0 %
2012-4271	SLT	LS3380	main	104	class	ceiling	2.00 m	2012-12-18 10:50	2013-04-15 10:12	117.93	579.00	536.00	<37	
2012-4270	SLT	LS3494	main	106	class	ceiling	2.00 m	2012-12-18 10:55	2013-04-15 09:55	117.92	482.00	436.00	41	
2012-4269	SLT	LR8709	main	108	class	ceiling	2.00 m	2012-12-18 11:00	2013-04-15 09:57	117.91	586.00	552.00	<37	
2012-4268	SLT	LO3097	main	111	class	ceiling	2.00 m	2012-12-18 11:05	2013-04-15 10:00	117.91	462.00	129.00	624	
2012-4267	SLT	LS4155	main	109	class	ceiling	2.00 m	2012-12-18 11:10	2013-04-15 10:05	117.91	468.00	412.00	60	
2012-4266	SLT	LS3304	main	107	class	ceiling	2.00 m	2012-12-18 11:15	2013-04-15 10:10	117.91	496.00	442.00	56	
2012-4265	SLT	LS3459	main	105	class	ceiling	2.00 m	2012-12-18 11:15	2013-04-15 10:10	117.91	568.00	525.00	<37	
2012-4264	SLT	LR8638	main	n/a	library	ceiling	2.00 m	2012-12-18 11:20	2013-04-15 10:05	117.91	586.00	558.00	<37	
2012-4263	SLT	LS2408	main	n/a	administration	ceiling	2.00 m	2012-12-18 11:25	2013-04-15 09:35	117.88	615.00	582.00	<37	
2012-4262	SLT	LO1754	main	1809	principal office	ceiling	2.00 m	2012-12-18 11:30	2013-04-15 09:37	117.88	530.00	502.00	<37	
2012-4261	SLT	LO8869	main	1810	community learning	ceiling	2.00 m	2012-12-18 11:35	2013-04-15 09:40	117.88	491.00	463.00	<37	