



Supplementary Information

Presentation from Faye More

In the Matter of the

Canadian Nuclear Laboratories

Application to renew its waste nuclear
substance licence for the Port Hope Project

Commission Public Hearing

November 22, 2022

Renseignements supplémentaires

Présentation de Faye More

À l'égard de

Laboratoires Nucléaires Canadiens

Demande concernant le renouvellement du
permis de déchets de substances nucléaires
pour le projet de Port Hope

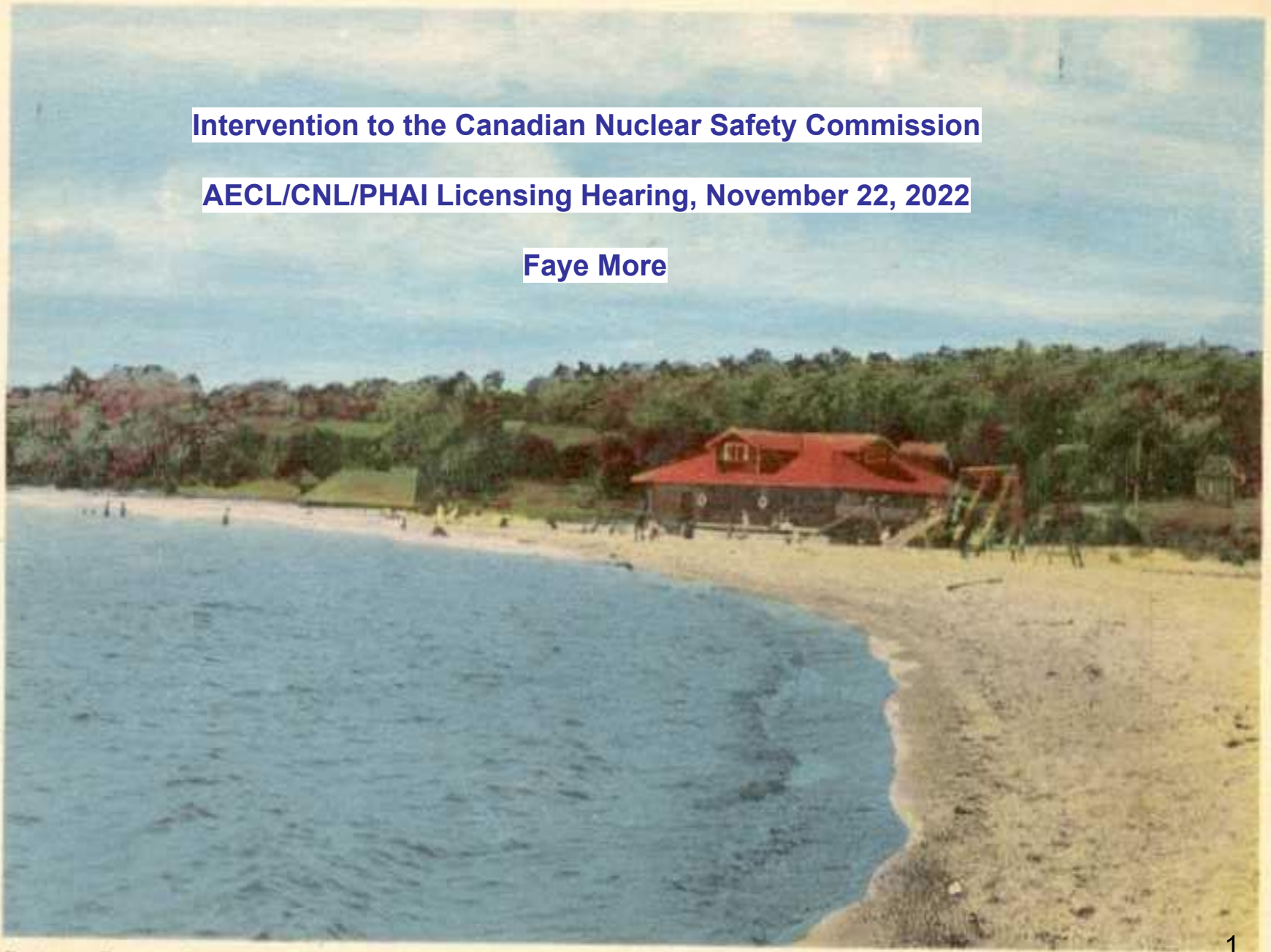
Audience publique de la Commission

22 novembre 2022

Intervention to the Canadian Nuclear Safety Commission

AECL/CNL/PHAI Licensing Hearing, November 22, 2022

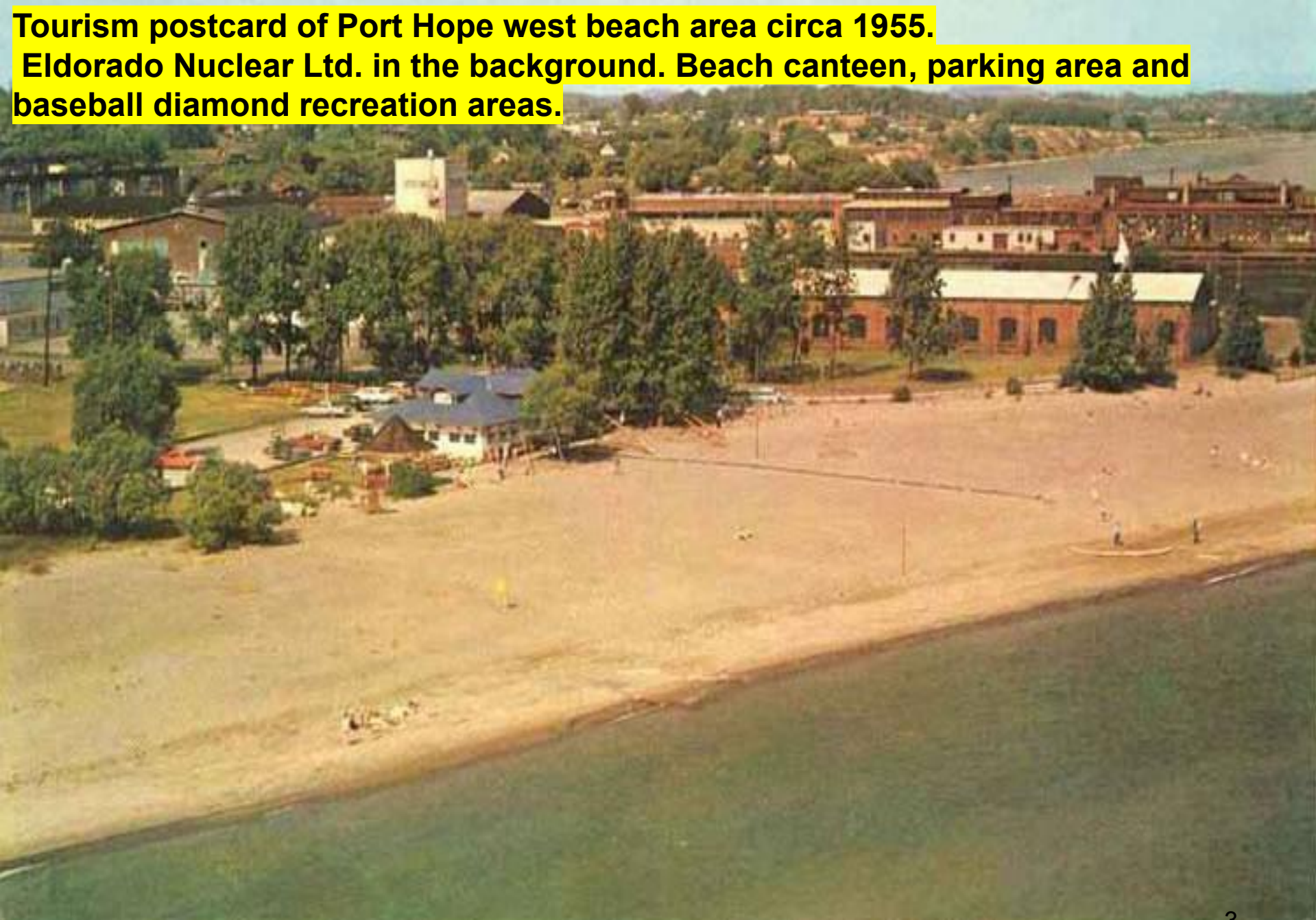
Faye More



Bathing Beach, Port Hope, Ontario.—2.

Recommendations

1. A federal compensation fund be established for the forgotten current and former Port Hope residents and workers after 50 + years of industry and government malpractice and neglect; constantly exposing people to toxic exposures without their knowledge let alone informed consent.
2. All private property files must disclose all investigation data on “neighbouring” municipal roads and frontages to which they are exposed daily. Post all data on public properties. Stop withholding information. Make cleanup mandatory.
3. All contaminated locations in Wards 1 and 2 be actively publicly disclosed so people are aware of the true extent of area contamination and their exposures, including municipal roads and frontages. Stop messaging false information that there are no health risks to people.
4. All locations of remediation activities be public prior to and as they occur including activity under the Construction Monitoring Program.
5. End the false federal CNSC/AECL/CNL/PHAI “dose” estimates applied for “average” Port Hope radiation exposures used to dismiss documented elevated disease rates, to justify no health monitoring of the people yet continue a massive cleanup and license ongoing industry emissions over our community with “no expected health impacts”.
6. Apply the Precautionary Principle” with knowledge that people are exposed to a range of nuclear industry toxic materials through a variety of pathways every day for which there will be compounding and synergistic impacts for each individual.



Port Hope contaminated west beach area circa 1955. Beach house painted and cleaned with friends in the late 1960's for recreation centre. Building was dismantled, trucked to Chalk River dump in late 1970's due to contamination. Neighbourhood beside Eldorado dismantled quickly around the same time. Remediation of beach area still not completed .



Bathing Beach, Port Hope, Ontario.—2.

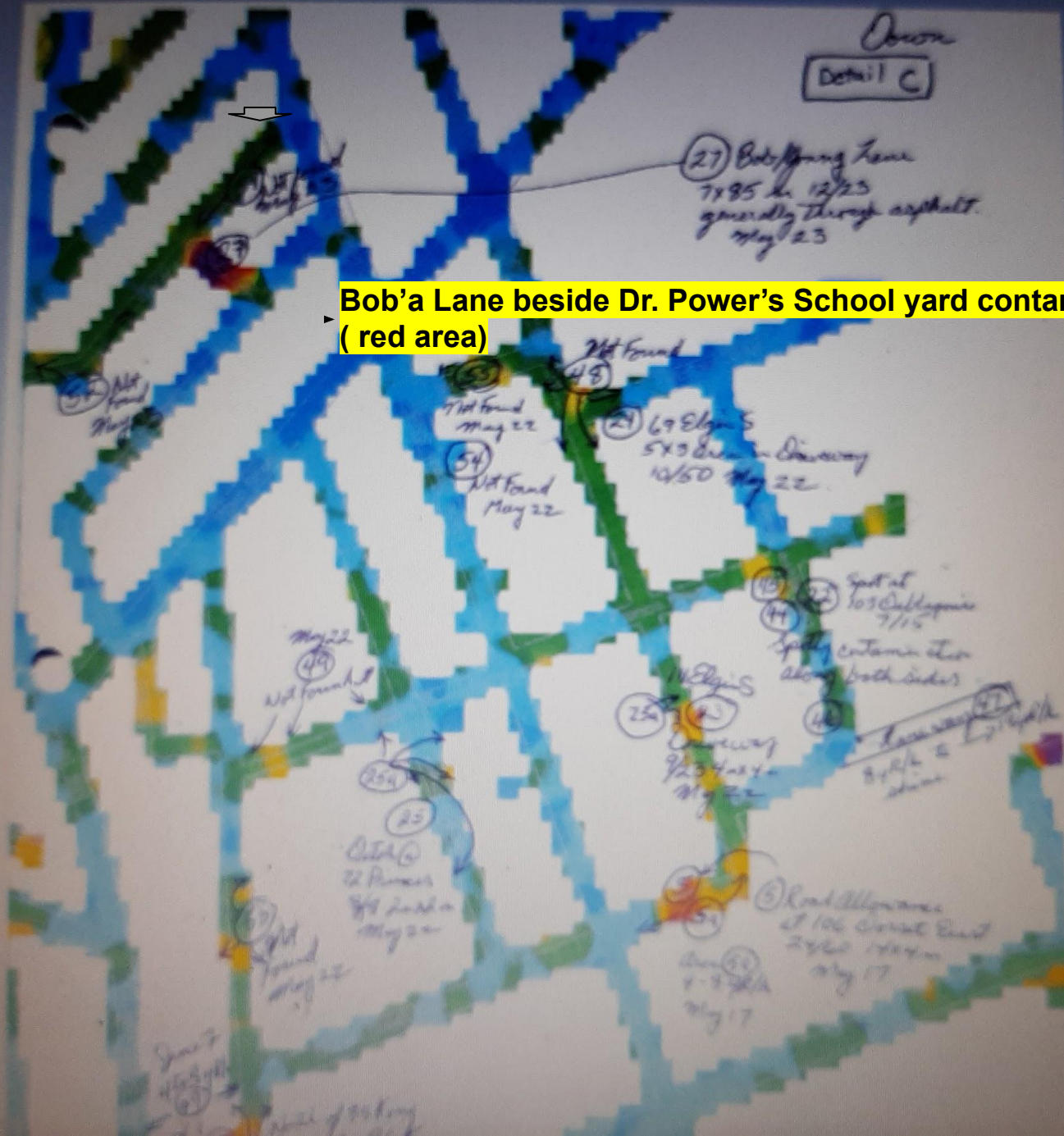
I attended Dr. Power's School 1955 to 1962. Significantly elevated bore hole and radon test results in 1976/77 not publicly disclosed or investigated showed contamination on the property, left children and staff at unknown risk. Adjacent streets, frontages and school yard on Bob's Lane still require remediation,. I am paying \$180 for a municipal ATIP request to find out if Dr. Power's property was remediated after its sale to a developer as required by legal agreement. See attachment A, Pat McNamara's search for accountability after we reviewed the LLRWMO file.



Don
Detail C

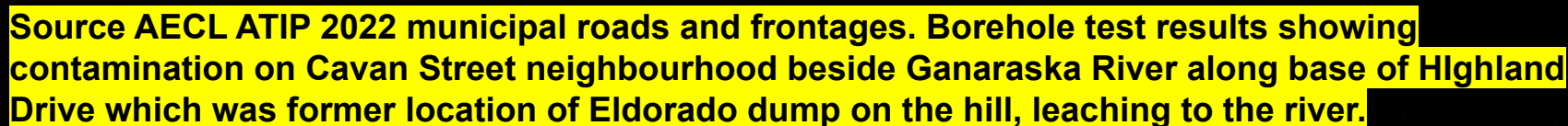
(27) Bob's Spring Lane
7x85 in. 12/23
generally through asphalt.
May 23

Bob's Lane beside Dr. Power's School yard contaminated
(red area)

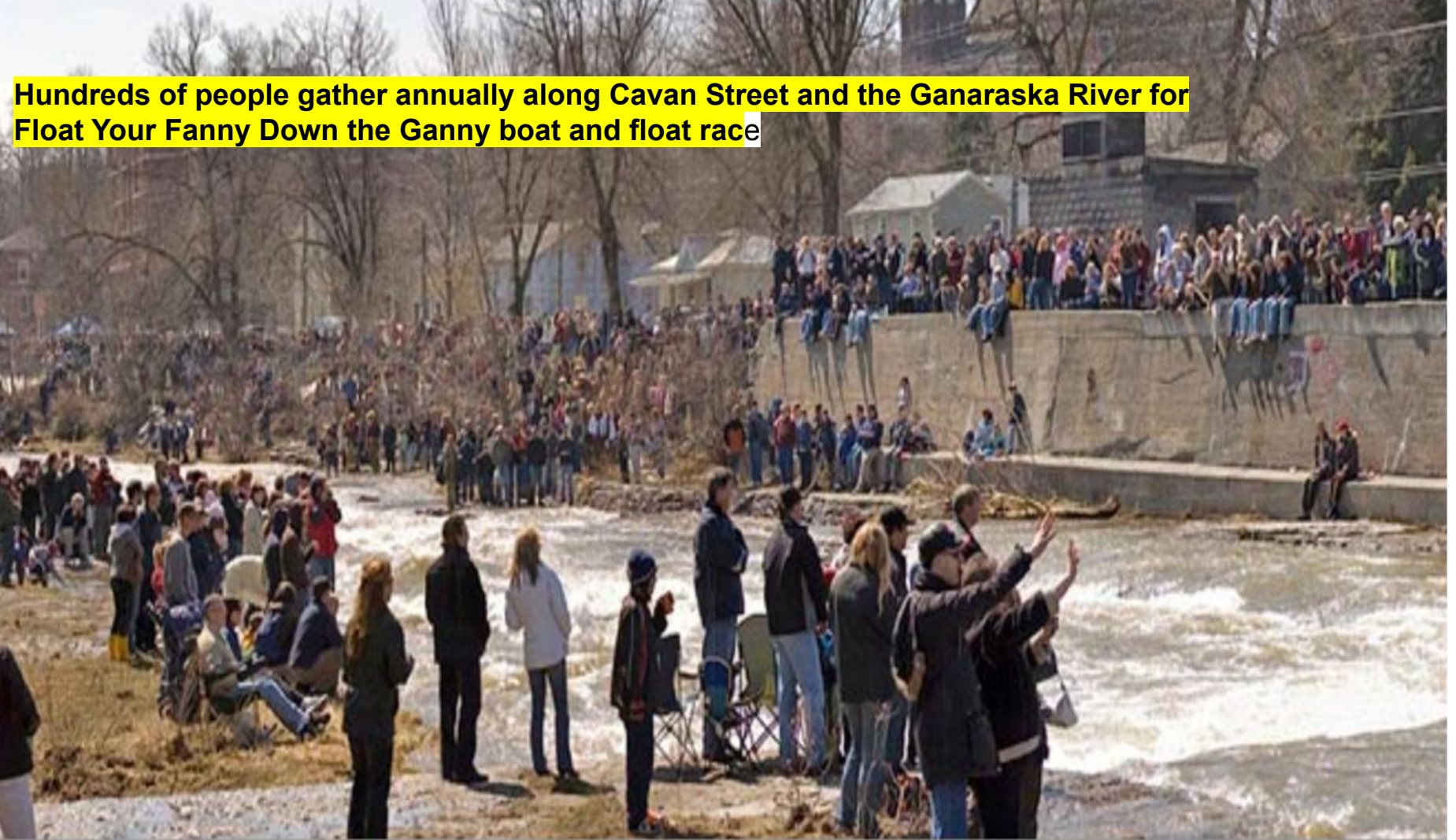




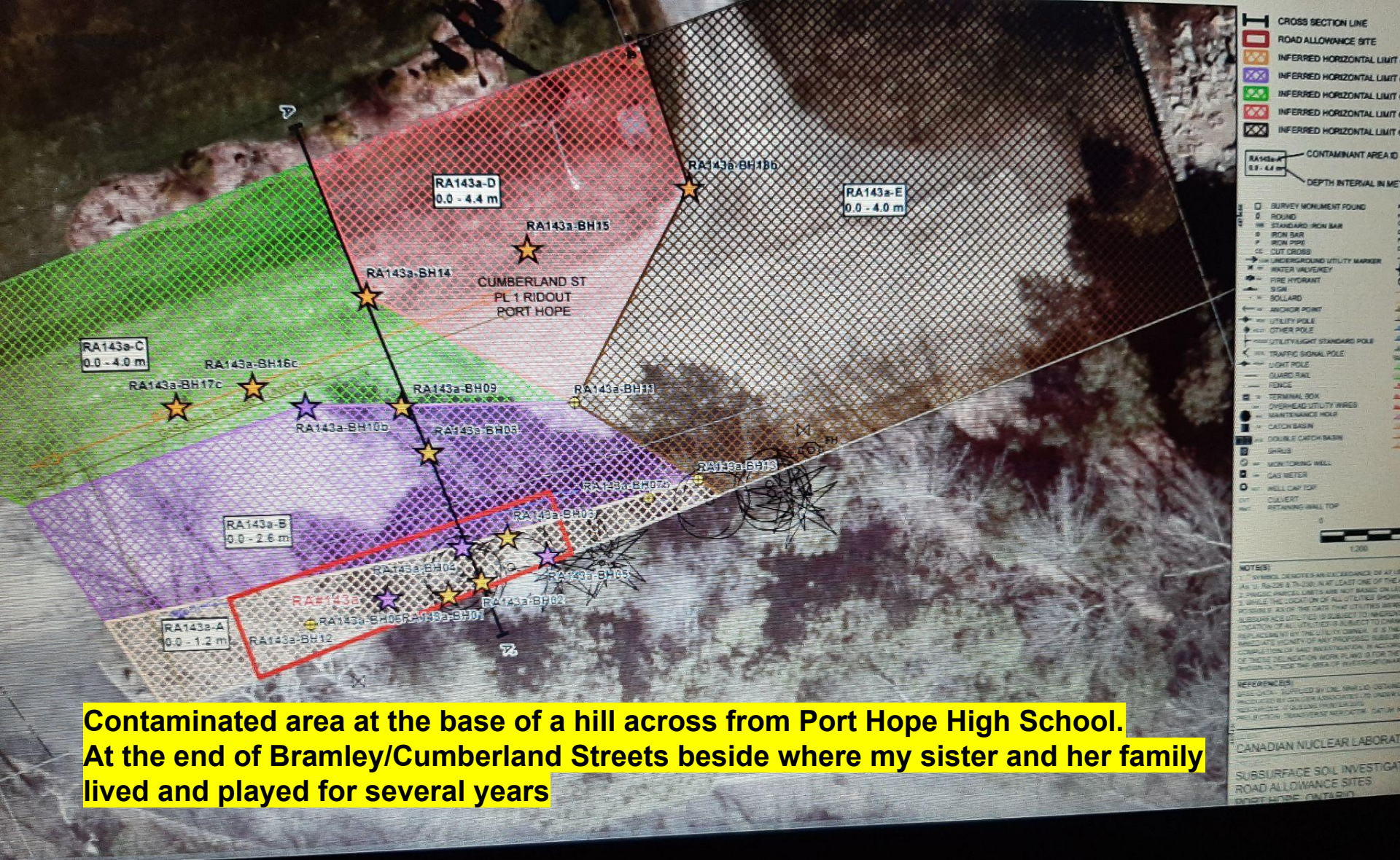
Source AECL ATIP 2022: municipal roads and frontages report: contamination in bore hole test results in neighbourhood near east beach playground



Hundreds of people gather annually along Cavan Street and the Ganaraska River for Float Your Fanny Down the Ganny boat and float race



Fanny Down the Ganny. Approaching the bridge at Clayton's Crossing, April 5, 2



Contaminated area on hill of Highland Drive (aka Monkey Mountain) at location of former town landfill which was also used by Eldorado to discard waste materials including bricks, pipes, ceramics, yellowcake which leached downhill to Ganaraska River and neighbourhoods..Located beside town sports complex named after Eldorado manager and near high school.



This work is being performed as part of the



**PORT HOPE AREA
INITIATIVE**

For more information:

PHAI.ca • 905.885.0291 • info@phai.ca



Canadian Nuclear
Laboratories

Laboratoires Nucléaires
Canadiens



**Lion's recreation centre/Strachan Street ravine - sledded, played and swam
at only town pool. Area is major remediation site.**

Click a thumbnail to enlarge it. Click an enlarged image to shrink it



Lion's Recreation Centre late 1950s. Picture from Sanford 'Sam' Haskill

Waterfront walking trail beside Lake Ontario beside contaminated neighbourhood and remediation of occupied homes



Contaminated outdoor skating rink on Caroline Street, tennis court area for generations of children needs further remediation.



Search Here

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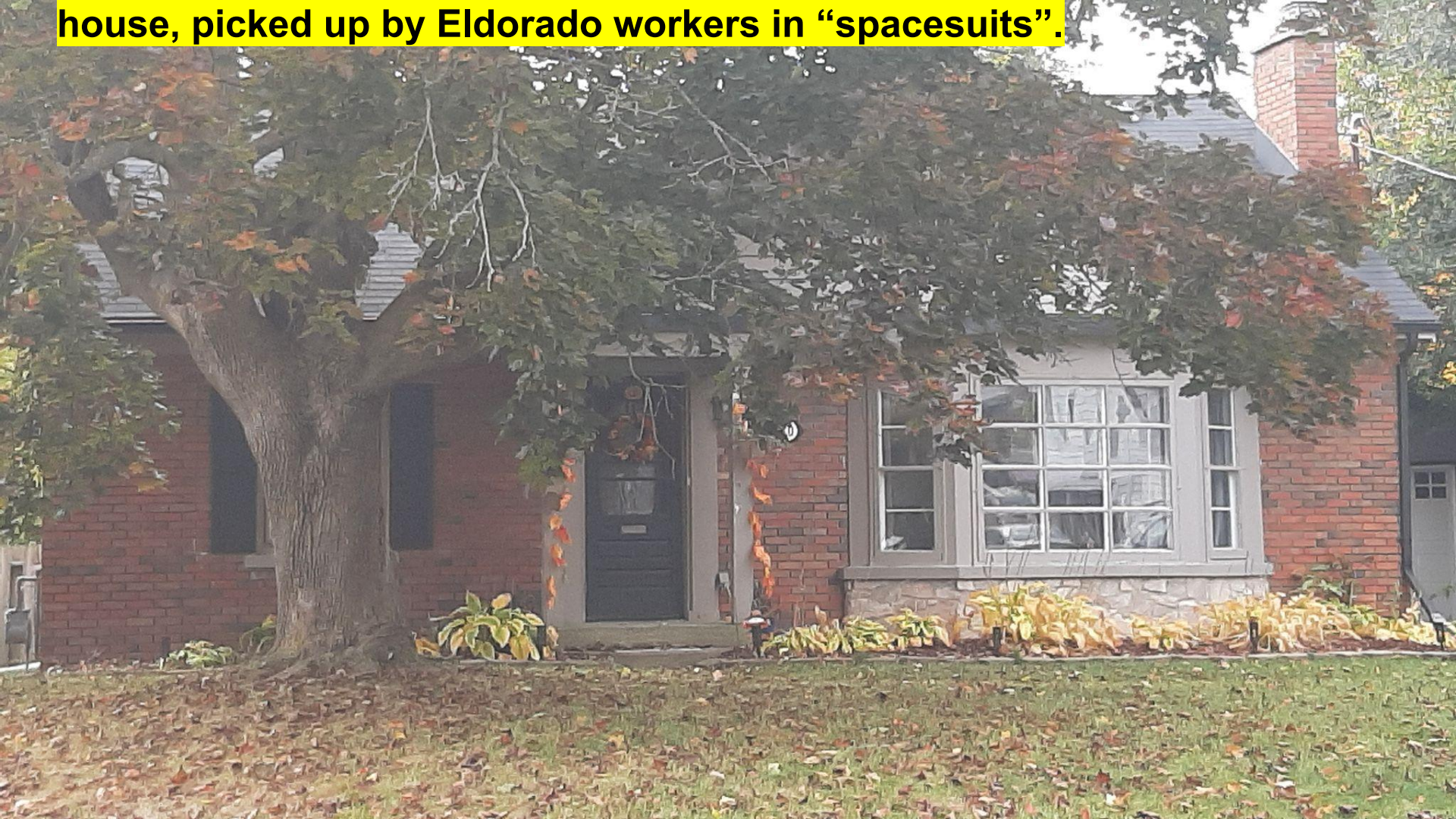
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My family's home 200 Hope Street North from 1957 to 1996. Four main radioactive pipes and one wooden beam from Eldorado discovered by AECB in basement in 1976 after Mum insisted on testing. My blackboard where I played for hours was attached. Washer and dryer nearby. Material was removed to frontage by relatives to get it out of the house, picked up by Eldorado workers in "spacesuits".



2ND Floor:

(1) Bedrooms

.006

SPARE ROOM

.007

Comments

.008 Living Rm.

gamma readings from May 1976 AECB survey report on
200 Hope Street North.

Grounds:

(1) Garage

.008

(2) Carport

(3) Driveway

.005 to .01

(4) Toolshed

(5) Other

Comments:

Other Areas:

Surveyor's Comments:

(1) House Background

.009

(2) Yard Background

.009

Contact

→ .160 - 9" ^{2 inches} supporting pipe in the basement.

→ 5 inches - 4-inch supporting pipe in the basement

→ .025 - 4 inches supporting pipe of wood in basement

→ .085 - supporting pipe in the basement 2 1/2 in.

→ .03 ^{.0158} 2 1/2" supporting pipe in the basement

Contaminated items
to be picked up:

000538

125%

1 / 1

Tr

Department - Ministère

ATOMIC ENERGY CONTROL BOARD

BRANCH, DIVISION OF UNIT - Direction, Division du Service

270 Albert St. Ottawa, Ontario

Document No. - N° de document

401-76/77

Date of Requisition - Date de demande

September 27, 1976

cheque No. and Date
N° de chèque et date

Payment to my Mum Yvonne Everson to reimburse her brother for removing the radioactive materials to the frontage for pickup. Eldorado workers in "spacesuits" picked up from frontage.

s.19(1)

Correspondence relating to this remittance should be directed to the Department indicated above quoting the cheque number.

La correspondance afférente à cette remise peut être adressée au ministère précité; prière d'indiquer le numéro du chèque.

Particulars - Détails	Invoice No. N° de la facture	Canadian Amount Montant canadien
Payment concerning the removal of the radioactively contaminated posts from the basement at 200 Hope Street, Port Hope, Ontario		95.43

Note: Cheque to be returned to AECEB as soon as possible please.

Health Impacts?

- I was 7 years old when my family moved to this home in 1957. I played school countless hours alone and with friends in the basement with my blackboard attached to the contaminated post and pipes on my right side less than 23 “ away and directly beneath the kitchen. The washer and dryer were nearby which my mother accessed daily.
- By 1962, 5 years in the house, I was hospitalized with sudden vertigo and gradual hearing loss, eventually diagnosed after months of tests, with right side Menieres Disease very rare in someone my age, surprising specialists.
- At age 26 my specialist at Sunnybrook Hospital performed a right side labrynthectomy to end my debilitating symptoms. I was left deaf on the right side.
- At age 50 I was diagnosed with left side Menieres which I continue to deal with.
- It is my firm belief that my exposure as a child to the radioactive material in the basement caused my illness.

Health Impacts?

- In 1966, 9 years in the house, my mother Yvonne at age 47 became ill, was hospitalized for a month. Cause was not confirmed. She developed a tremor not long after. In her mid 70's Mum was diagnosed with Parkinson's Disease. In her 80's she was diagnosed with colon cancer from which she died in 2006 at age 87.
- In 1972, 15 years in the house, my father Robert at age 60 suffered a cerebral hemorrhage with right side paralysis. In 1978 he suffered brain injury from tests, lost his speech ability and was confined to a wheelchair until his passing in 1983 at age 72.
- In 2008 my eldest sister Roberta died suddenly at age 66 of cardiovascular disease having recently retired as an ICU/Emerg nurse..
- No one can credibly claim that exposures in the family home and the PH environment did not contribute to their illnesses particularly when these same illnesses are significantly elevated in federal Port Hope health outcome studies (1997, 2000, 2002).

**Our More family purchased 16 Ralston Drive Port Hope in 1991. We sold in May 2017 living there for 26 years.
Picture before remediation of radioactive waste on front lawn in 201 after we sold**

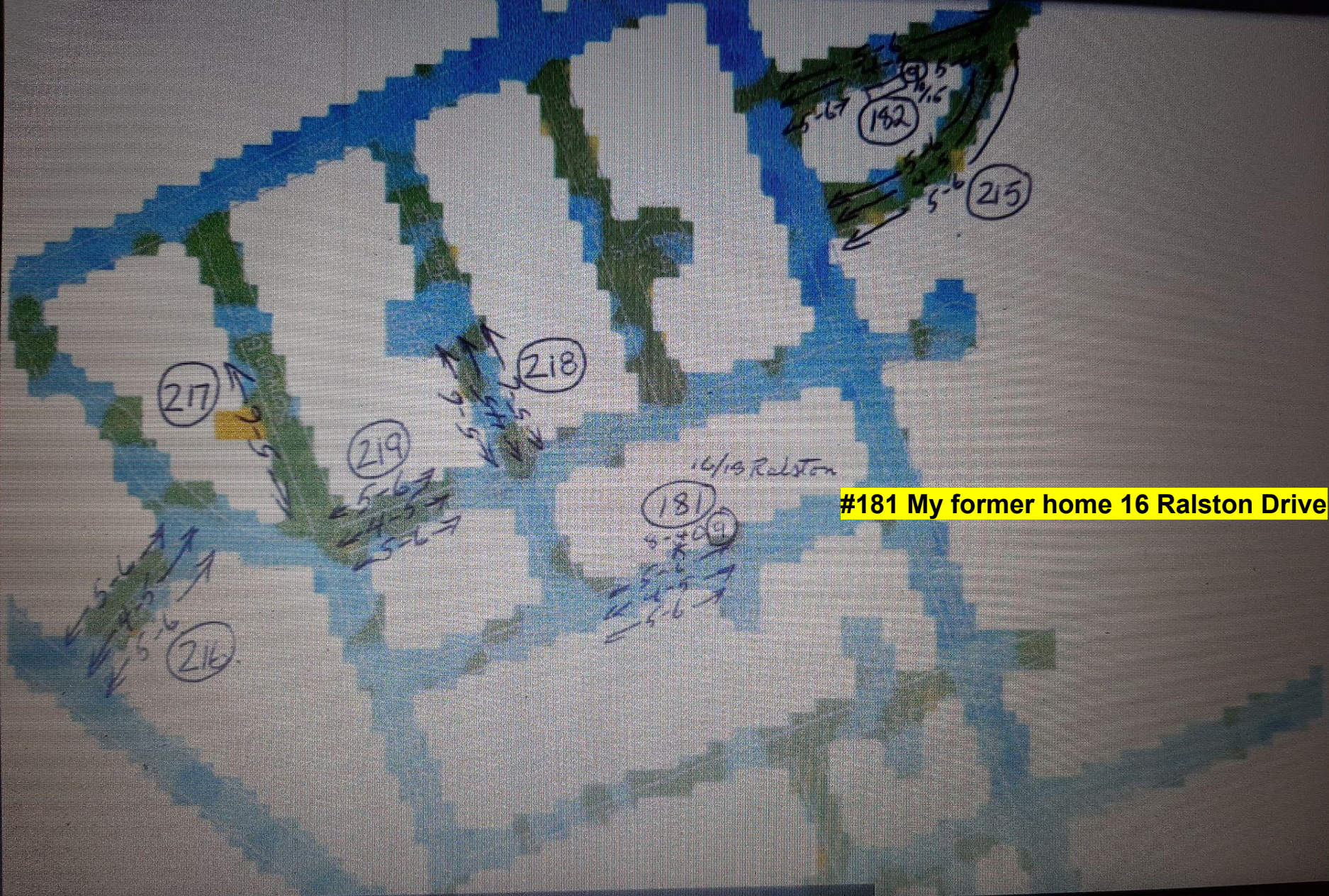




Charlotte

Policy of Lack of Disclosure by PHAI

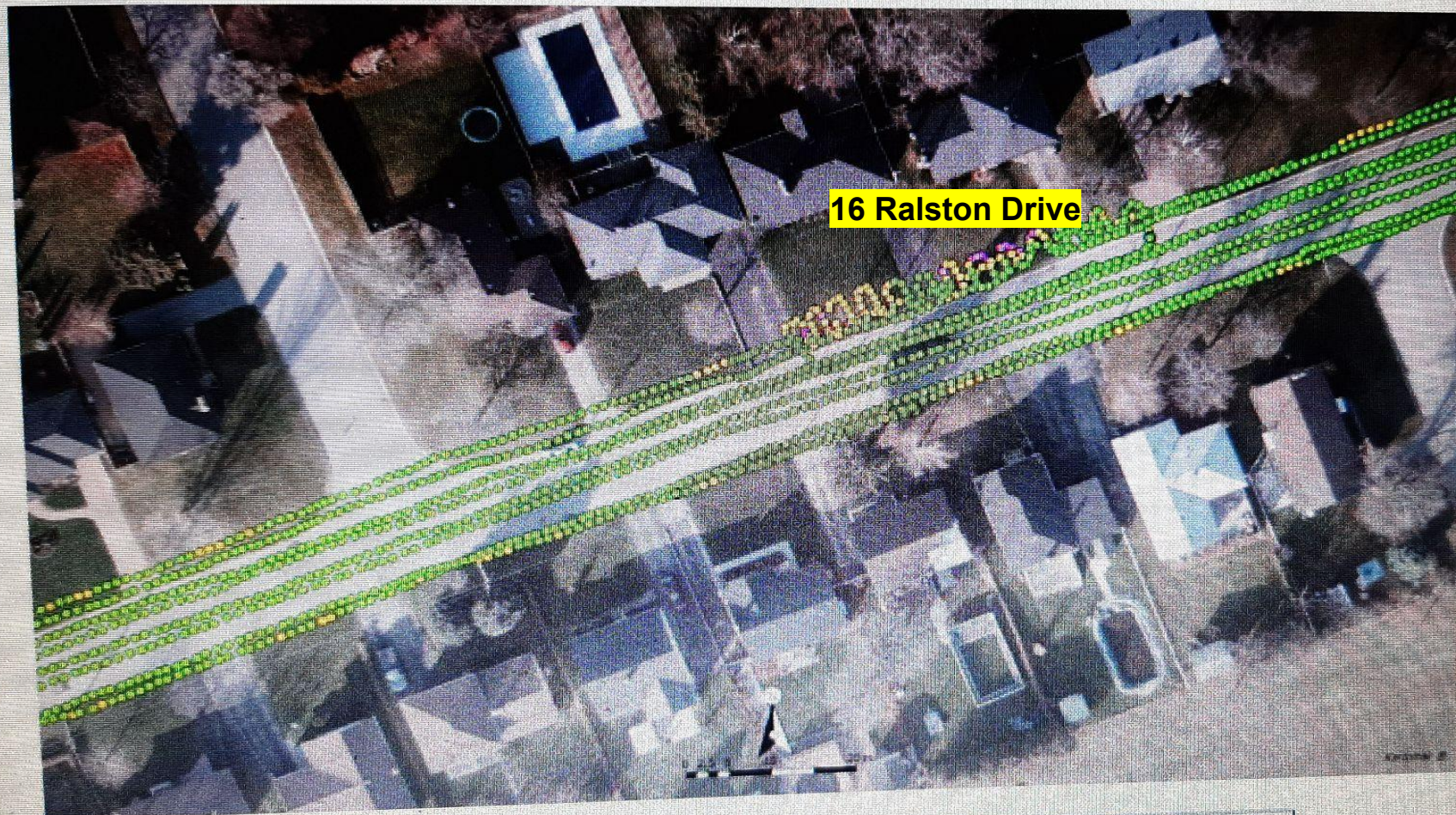
- CMD 18-M30.6 documents my issues with the lack of disclosure of contamination on our property known since 2001 gamma survey results they paid for (included in CMD) which I obtained under ATIP for reports on municipal roads and frontages.
- The 2001 information named and had a picture of our property but it was not in our private property file obtained also obtained under ATIP. We were left unaware of our exposures daily based on no written policy and no municipal direction to keep the information secret. Why?
- In three meetings with PHAI in 2017 at which I showed the 2001 documents while preparing to sell our home and subsequent correspondence from their lawyer their lack of disclosure to us was defended as was not confirming the 2001 reports. PHAI notes of these meetings confirm the responses. We developed our own phrases.
- We accepted the only offer we received which was from a PHAI staff member and closed on May 31, 2017. In June extensive testing occurred by PHAI of our former property and remediation was undertaken in July 2017 to remove 4.5 cubic metres of radioactive waste.
- At no time were we notified of the test results, remediation and our daily exposures to elevated gamma radiation at ground level which they had confirmed.



#181 My former home 16 Ralston Drive

Ralston Drive, Central Area Contact Level Gamma Survey Pre-Construction Survey

Date 2016 July 6 Coordinate System: NAD_1983_UTM_Zone_17N

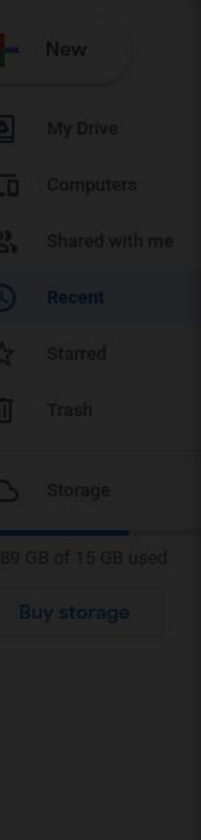


Instrument: Ludlum 2221 sn 308073
Detector: Ludlum 44-10 sn PR 223252
PDOP = 7 File # 070614C

Legend

- 3 - 5 μ R/h ● 6 - 7 μ R/h
- 8 - 11 μ R/h





The property covers an area of 932.8 m². As such, one (1) borehole will be advanced on the property. An additional five (5) boreholes will also be advanced onsite with three (3) boreholes in areas where exceedances in gamma readings were previously identified along the west side of the house and in the front yard and two (2) boreholes adjacent to CRA 181a. One (1) soil sample will be recovered from each borehole for analysis.

Areas of concern to be investigated with respect to the exterior impact assessment at this site are:

An exterior gamma survey conducted in 1994 identified gamma readings exceeding the background standard of 7 µR/h along the western portion of the property.

The property abuts a contaminated road allowance (CRA 181a) along a portion of its south boundary.



Job: Delivery of hLLRW to PSE TSS
by contractor

Prepared By: Jay Sherwin / Donald Scharfe

Date: 2016 October 28

Betton Construction Driver: [REDACTED]

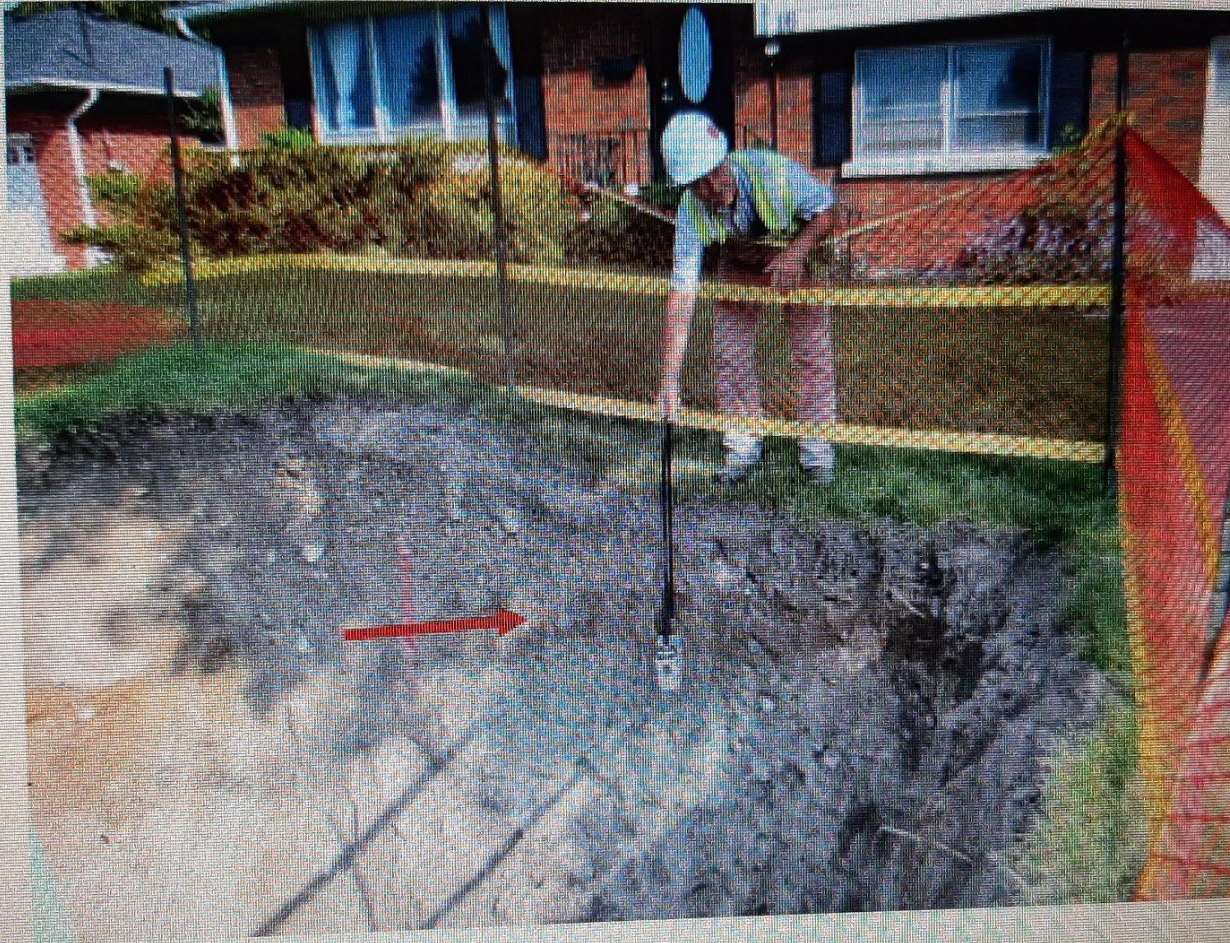
Date (YYYY-MON-DD)	Name - Please Print -	Signature confirming participation in this Pre-Job Brief
2017 Jul 10	[REDACTED]	[REDACTED]

Pre-Job Briefing provided by (Print Name and Sign) Cyndi Baughen. [Signature]

Approximately 3m³ of Soil excavated from Boulevard
in front 16 Ruelahn Drive prior to new water service
line installation

s.19(1)

2017 July 10th



Excavation for sewer and water service connections to 16 Ralston Drive. Red arrow marks transition from topsoil horizon to native stony-clay till.

Date: 2017 July 11

Date of Site Visits: 2017 July 7, 10 & 11

Boulevard at 16 Ralston Drive Port Hope, Ontario, CMP Report

Two photos below depict that the excavation completed to remove llrw contaminated soil from the boulevard at the frontage of 16 Ralston Drive was completed entirely within property owned by the Municipality of Port Hope.



Photo 1: Snow fencing surrounds excavation completed to remove hLLW contaminated soil within boulevard at frontage of 16 Ralston Drive. Blue flag at tip of red arrow marks location of water service shut-off valve which are most often placed at the municipal/private property boundary.



Photo 2: View from 14 Ralston Drive looking to west to excavation within boulevard at frontage of 16 Ralston Drive. Excavation site is encircled with snow fencing. Bell pedestal (identified by red arrow) in foreground and water service shut-off valve (identified by red arrow and blue flag) in background are both indicators of the approximate position of the municipal/private property boundary. The north limit of the excavation footprint as depicted in Photo 2 is approximately 1 m to the south of the municipal/private property boundary line.

Based on surface gamma readings ranging from 10 – 25 $\mu\text{R/h}$, approximately 1.5 m³ of radiologically contaminated soil was removed from the excavation site on 2017 July 7. As both samples collected from the base of the excavated area failed PHAI criteria for As: (S 1: 36.7 ppm & S 2: 18.3 ppm), an additional 3 m³ of soil was removed from the site on 2017 July 10.

- Based on XRF screening results from two samples collected from the base of the excavation completed on July 10 (S 7: 4.4 ppm As and S 8: not-detect for As), remediation was considered complete within the footprint of the excavated area. U content as measured by XRF for samples S 7 & S 8 were both ND (not-detected).

Because important data was withheld by CNL/PHAI/LLRWMO my family played and walked daily on top of radioactive waste, unknowingly exposed to significantly elevated levels of gamma radiation, heavy metals Records show elevations on the west side of the property were attributed without full investigation to NORM (normally occurring radioactive materials)



Port Hope Disease Trends Are Ignored -Why?

**Great Lakes Health Effects Program Health Study on the Population around
Port Hope Harbour (1998): Selected Causes of Death 1986-92
Significantly higher than Ontario – Port Hope harbour area**

- hereditary diseases and degenerative diseases of the central nervous system
- multiple sclerosis
- parkinson's disease
- diseases of pulmonary circulation
- other forms of heart disease
- diseases of arteries, arterioles and capillaries
- acute respiratory infections
- atherosclerosis
- other diseases of upper respiratory tract
- pneumonia and influenza
- emphysema
- chronic obstructive pulmonary disease and allied conditions
- cancer, lip and oral cavity
- cancer, pharynx
- cancer, gallbladder and extrahepatic bile ducts
- cancer, respiratory and intrathoracic organs
- cancer, trachea, bronchus, lung
- cancer, other and unspecified sites
- cancer, bone , connective tissue,
- cancer, skin

Port Hope health data raises unanswered questions

- Port Hope elevated for selected periods and cohorts for: Overall death rate, circulatory disease, leukemia, non-Hodgkins lymphoma, cancers including childhood cancer deaths, and cancers of the lung, brain, nasal/sinus, esophageal, lip, bone, and colorectal.

2000, 2002 Health Canada/CNSC Data for Port Hope (Reassessed by Mintz, 2004)

- Causes of death 1986-92 significantly higher than Ontario include: hereditary, neurological, cardiovascular, respiratory diseases; cancers, including lip and oral cavity, pharynx, gallbladder, lung, trachea, bronchus, bone.

1998 Health Canada Great Lakes Health Effects Program Health Study on the Population Around Port Hope Harbour

Port Hope Health Data Analysis

- ...the patterns of several cancer rates show cause for concern in that the patterns are consistent with environmental contamination.
- Certainly the raised leukemia rates, which were even higher before remediation are not reassuring.
- 100 more female deaths than expected in the 1986-97 period due to circulatory disease...surprise finding requires further scrutiny.
- Findings suggest children experienced high cancer rates, particularly before 1986.
- The findings taken together show a pattern that is quite suggestive of an excess of brain cancer in Port Hope.
- Along with the brain cancer, colon cancer and some of the rare cancer results, the available evidence points to there being problems in Port Hope.

.... Reviews by **Dr. Eric Mintz**, 2000, 2002

End this shameful deception now...

On Canada.ca website today:

Q. Is background radiation in Port Hope elevated?

Background radiation in Port Hope is within the range found in other Canadian communities. Radon exposure in Port Hope is about 0.6 millisieverts (mSv)/yr, this is comparatively lower than the average radon exposure in Canada of 0.92 mSv/yr. Uranium in Port Hope's air is also monitored, the level varies between about 0.3 - 6 nanograms of uranium per cubic meter of air. Levels below 100 nanograms of uranium per cubic meter of air are not considered to be of health concern.

It is far past time for the federal government to fully disclose the extent of radioactive contamination in Port Hope and to compensate the forgotten people for the decades of documented malpractice, neglect and immeasurable harm that has impacted generations.



Bathing Beach. Port Hope, Ontario.—2.

Attachment

Baillie-Malo, Sharon

Hi Sharon,

Here is all the documentation that has been sent (to Health Canada, RCMP, and the Ministers (EC and NRCAN)). The most recent correspondence was with Chris with the RCMP (see attachment). I'll give you a chance to read through and get in touch with you this afternoon.

Thanks, Kathy

Kathy Yew Woon

Environmental Contaminants Officer

Environmental Protection Branch - Ontario Region, Environment Canada

4905 Dufferin Street, Downsview, Ontario, M3H 5T4

PH: 416-739-4636 FX: 416-739-4405

email: kathy.yew-woon@ec.gc.ca

-----Original Message-----

From: Lopes, Edwina [Ontario]

Sent: Thursday, July 29, 2004 1:58 PM

To: Baweja, Anar: HC LOTUS

Cc: Krauel, Robert [Ontario]; Yew-Woon, Kathy [Ontario]; Free, Chris [NCR]

Subject: Dr Powers School - Concerned Citizen

Anar,

As per our telephone conversation, please find attached background information on this request.

EC would appreciate being kept informed.

Thanks,

Edwina

Edwina Lopes

Edwina Lopes

Head, Commercial Chemicals & Nuclear Programs Section

Environmental Contaminants Division

Environmental Protection Branch, Ontario Region

Environment Canada

4905 Dufferin Street

Downsview, Ontario

M3H 5T4

(416) 739-5863

FAX (416) 739-4405

Edwina.Lopes@ec.gc.ca

Baillie-Malo, Sharon

From: Yew-Woon, Kathy [Ontario] [Kathy.Yew-Woon@ec.gc.ca]
Sent: May 18, 2004 2:32 PM
To: Lopes, Edwina [Ontario]; Krauel, Robert [Ontario]
Subject: Docket: Radiation in Port Hope School

Edwina/Bob:

s.19(1)

Not dealt with
I spoke with Sharon Baillo-Malo at NRCAN (Responsible Authority contact for the Port Hope Area Initiative) who dealt with [REDACTED] and his concerns prior to this email being sent to EC. Sharon provided the following information:

- NRCAN is aware of Mr. McNamaras presentations to the municipal council and follow up conversations with LLRWMO.
- The elevated reading at Dr. Powers School was not a representative reading;
- All of the people mentioned in the email have been consulted by either NRCAN or LLRWMO; ?
- Mr. McNamara mentioned the lack of a follow up monitoring program after the elevated reading was observed. NRCAN confirmed that there was a program in place as part of the Port Hope Area Initiative. *→ future*
- The press was contacted by Mr. McNamara prior to May 09, 2004 when the email was sent.
- NRCAN/LLRWMO has already contacted and dealt with the press. ? *LED not NRCAN*

Sharon, advised that we send the docket to the Minister of Natural Resources so that they could maintain continuity and consistency with the resident and the media.

Additionally, Dr. Anar Bajewa of Health Canada was contacted as the Federal Authority for Health Canada and representative for the Port Hope Area Initiative. Dr. Bajewa confirmed that the 506 pci/L reading was elevated but was not aware of the context of the sampling program for that time (1950). Therefore, he would prefer that NRCAN provide the response to the docket. He did request a copy of the correspondence and docket for his records. *Nothing to do with PHAI*

Therefore the response forwards the docket to the Min. of NRCAN and is attached for your review. *did this come to NRCAN?*

Thanks,

Kathy

-----Original Message-----

From: Lopes, Edwina [Ontario]
Sent: Thursday, May 13, 2004 3:59 PM
To: Yew-Woon, Kathy [Ontario]
Subject: FW: Radiation in Port Hope School

Kathy please prepare a response.

-----Original Message-----

From: Krauel,Robert [Ontario]
Sent: Thursday, May 13, 2004 3:23 PM
To: Lopes,Edwina [Ontario]
Subject: FW: Radiation in Port Hope School

Edwina,
Can you please prepare a response to this. You should discuss the issue with Health Canada (Bliss Tracy), CNSC, and AECL.

Thanks

-----Original Message-----

s.19(1)

Sent: May 9, 2004 3:31 PM
To: Anderson,David [NCR]
Subject: Radiation in Port Hope School

Hello,

Atomic Energy of Canada Limited (AECL) was contacted to check for radiation in our school yard to allow us to do some upgrades. One area showed elevated readings and as such, I requested and received permission to view the school file at the AECL office.

What we found in the file was shocking and disturbing. Our public school board and AECL have been aware of potentially massive radon contamination in our school since 1976 without remediation or further exploratory testing taking place.

Most alarming were the tests completed in 1978. The original part of the school, built in 1924 (pre-nuclear), tested at .3 pCi/L (consistent with normal background levels). A hole drilled through the slab in the addition (1950) gave a reading of 506 pCi/L or 1686 times as high as the original part of the school.

I contacted Mark Stephenson (LLRW Peer Review) to have the file independently inspected. Dr. Roa looked at the file and determined the school was safe for students (with no qualifying remarks). Further, he completely dismissed the relevance of a 506pCi/L reading below the kindergarten classroom and gymnasium.

His comments were asinine considering:

- 1) No testing of any kind had been ordered or completed since 1996.
- 2) No remediation work on store rooms (since 1976) with levels 2-5 times higher than the level at which remediation work is supposed to be ordered.
- 3) There has never been monitoring programs since problem was discovered 28 years ago.

4) No further sub-slab testing despite elevations 1686 times higher than the original part of the school.

I have attached my May 4 presentation to Port Hope Council on this matter (and 2 presentations to Council on Cameco's SEU application.) Glen Case from AECL, Joe Hubbard from KPR School Board and Mark Stephenson from Hardy & Associates presented after I did on May 4th. When asked by Councilor Moran if there were any inaccuracies in my presentation, the answers were no.

If you would like further verification, please contact David Craig, the News Director at CHUC radio in Cobourg who has been present for all my presentations.

I am absolutely disgusted that my little girl's life and safety were put at risk by AECL, the Public School Boards and our Federal Government. Our local Peer Review has been completely delinquent in fulfilling their responsibilities and are little more than apologists for the nuclear industry in Port Hope.

WE have no way of holding the nuclear industry in Port Hope accountable for their current abuses and the insane level of contamination they have buried this town under for the last 70 years. Our Federal Government has made sure of that. We need help!!!



s.19(1)

MSN Premium includes powerful parental controls and get 2 months FREE*

[http://join.msn.com/?pgmarket=en-](http://join.msn.com/?pgmarket=en-ca&page=byoa/prem&xAPIID=1994&DI=1034&SU=http://hotmail.com/enca&HL=Market_MSNIS_Taglines)

[ca&page=byoa/prem&xAPIID=1994&DI=1034&SU=http://hotmail.com/enca&HL=Market_MSNIS_Taglines](http://join.msn.com/?pgmarket=en-ca&page=byoa/prem&xAPIID=1994&DI=1034&SU=http://hotmail.com/enca&HL=Market_MSNIS_Taglines)

Baillie-Malo, Sharon

From: Yew-Woon, Kathy [Ontario] [Kathy.Yew-Woon@ec.gc.ca]

Sent: June 4, 2004 9:33 AM

To: Lopes, Edwina [Ontario]

Subject: RE: DOCKET 55709 - Port Hope School

<<Docket_Response [REDACTED] 4Jun04.doc>> **s.19(1)**
Edwina,

Attached is the revised version of Docket 55709 for your review, I should have Docket 55103 by this afternoon.

Thanks,
Kathy

As of August 5,
Docket 55709 has not
been logged in as signed
by Minister of E



Environment
Canada

Environmental Protection Branch
Ontario Region
4905 Dufferin Street
Downsview, Ontario
M3H 5T4

Environnement
Canada

Protection de l'environnement
Région de l'Ontario
4905, rue Dufferin
Downsview, Ontario
M3H 5T4

s.19(1)

Thank you for your letter dated May 09, 2004 regarding your concern about contamination in the town of Port Hope and historical radiation levels at Dr. Powers School. Environment Canada is a Federal Authority in the Environmental Assessment process for the Port Hope Area Initiative.

In context of our role as an expert federal authority per section 12(3) of CEAA, we provide advice and comments related to the following legislation and policies within Environment Canada's mandate:

- o Section 36(3) of the Fisheries Act (which prohibits the deposit of potentially deleterious substances into Canadian fisheries waters);
- o Canadian Environmental Protection Act;
- o Migratory Bird Convention Act (which prohibits the taking or killing of migratory birds and their nests and eggs);
- o National Accord for the Protection of Species at Risk (species at risk are listed through the Committee on the Status of Endangered Wildlife in Canada);
- o Canada Wildlife Act (information on species at risk as designated by COSEWIC)
- o A Wildlife Policy for Canada (relevant goal is to maintain and restore ecological processes and the diversity of ecosystems, species and genetic variability within species);
- o Federal Policy on Wetland Conservation (shared federal responsibility that directs all departments to sustain wetland functions in the delivery of their programs, services or expenditures);
- o Canadian Biodiversity Strategy (in response to the United Nations Convention on Biological Diversity); and
- o Department of the Environment Act (advocating the preservation and enhancement of the environment, as well as responsibility for meteorology).

The assessment of radiation doses and risks due to ionizing radiation in the environment from natural and man-made sources are the responsibility of Health Canada. Therefore a copy of your letter will be forwarded to the Minister of Health Canada, Honourable Pierre S. Pettigrew.

In addition, the Responsible Authorities for the Port Hope Area Initiative are Natural Resources Canada (NRCAN). I have contacted them to ensure that they are aware of your concerns and will be providing responses to the issues you have raised. I have also forwarded a copy of your letter to the Minister of Natural Resources Canada, Honourable R. John Efford.

I appreciate your taking the time to write.

Yours sincerely,

David Anderson, M.P.

Prepared By: Kathy Yew Woon, Environmental Protection Branch-Ontario Region,
416-739-4636
Date: May 17, 2004
Input By: Robert Krauel (EC-EPB), Edwina Lopes (EC-EPB)

Baillie-Malo, Sharon

From: Krauel,Robert [Ontario] [Robert.Krauel@ec.gc.ca]
Sent: July 29, 2004 11:00 AM
To: Lopes,Edwina [Ontario]
Subject: FW: Re: RCMP Web Comment (Dr. Powers school in Port Hope)

Edwina

This is the second e-mail from Chris

-----Original Message-----

From: Free,Chris [NCR]
Sent: July 29, 2004 9:27 AM
To: Krauel,Robert [Ontario]
Subject: FW: Re: RCMP Web Comment (Dr. Powers school in Port Hope)

Hi Robert,

The complainant in Port Hope has contacted the RCMP again. Please see the attached information below.

I recall that you were going to refer the matter to Health Canada. I was wondering if you could let me know what the status is and if they are doing anything. *July 27th presentation to Council*

Thanks,
CF

Chris Free
Senior Intelligence Advisor
National Environmental Protection Intelligence Program Enforcement Support Division, Enforcement Branch National
Programs Directorate Environmental Protection Service Environment Canada

Tel: 819-994-0497
Fax: 819-953-3459
E-mail: chris.free@ec.gc.ca

-----Original Message-----

s.19(1)

Hello Lisane,

Why would the RCMP recommend (e-mail below) that I contact the Canadian Nuclear Safety Commission to investigate this matter when it was their predecessor (the Atomic Energy Control Board) that was the agency responsible for covering up the contamination in Dr. Powers School since 1978? Is this not a case of putting the fox in charge of the henhouse? Every series of tests on the complete school since 1976 have had results above the investigation level, but no investigation of the source of the radon has ever taken place. This is in direct contravention of the Federal/Provincial Criteria for Radioactive clean-up.

Is the Canadian Nuclear Safety Commission "above the law" in Canada? Endangering the health and lives of our children is a criminal matter. The investigation should be dealt with by our police force, not by the regulatory body that put our children in harms way to protect their own interests. Are all complaints to the RCMP about the nuclear industry in Canada handled the

000380

05/08/2004

same way? I have attached the presentation I made to Port Hope Council on July 27th detailing the nuclear regulatory bodies' lack of concern for Canadian citizens. They have knowingly put people's health at risk since the dawn of the nuclear age. I await your response. Thank you, [REDACTED]

>From: "Lisane Hurtubise" <Lisane.Hurtubise@rcmp-grc.gc.ca>

>To: [REDACTED]

>CC: "Catherine Nixon" <Catherine.Nixon@rcmp-grc.gc.ca>,"Tim O'Neil" <Tim.O'Neil@rcmp-grc.gc.ca>

>Subject: Re: RCMP Web Comment (Dr. Powers school in Port Hope)

>Date: Thu, 22 Jul 2004 10:38:05 -0400

>

>Good morning,

>

>I received information from the RCMP, Federal and International

>Operations, Federal Enforcement Branch regarding the document on Dr. Powers school in Port Hope that you had forwarded me on June 18th 2004. The information is as follows:

>

>The agencies responsible for addressing this issue are Natural

>Resources Canada and the Canadian Nuclear Safety Commission, who are currently conducting an assessment and clean-up of Port Hope.

>The allegations have been forwarded to Environment Canada's Contaminants and Nuclear Programs personnel in Ontario Region for review. They will liaise with Health Canada, as Health Canada may have a role when it comes to some of the issues cited in the allegations.

>

>At this time the RCMP is not the agency addressing this issue and as

>such are unable to provide any additional information on this matter. If you wish to have this actioned further, may I suggest that you contact these agencies directly or your local MP, who could make inquiries on your behalf.

>

>Thank you,

>

>

>

>Lisane Hurtubise

>RCMP National Youth Strategy

>Stratégie nationale de la GRC sur la jeunesse

>tel.: 613.993.4147

>fax.: 613.998-2405

>lisane.hurtubise@rcmp-grc.gc.ca

>

>

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Baillie-Malo, Sharon

From: Krauel,Robert [Ontario] [Robert.Krauel@ec.gc.ca]
Sent: July 29, 2004 10:59 AM
To: Lopes,Edwina [Ontario]
Subject: FW: RCMP Web Comment

Edwina

This is something that I received from Chris Free of the enforcement group in Ottawa - The issue being raised is primarily a health issue - and looks like it is outside our legislative mandate however I indicated to Chris that we would talk to our Health Canada contacts on this to ensure that they are aware of this issue.

Can you please contact Dorothy Meyerhofs group - Radiation Protection Bureau @ Health Canada (Anar Baweja?) and get back to Chris regarding who is dealing with this at their office.

Thanks

P.S. - Chris has sent a follow up e-mail which I'll forward to you

-----Original Message-----

From: Free,Chris [NCR]
Sent: July 12, 2004 10:00 AM
To: Krauel,Robert [Ontario]
Subject: FW: RCMP Web Comment

Hi Bob,

As discussed, here is what was sent to the RCMP and then sent to us. Thanks for the info on the situation.

Cheers,

CF

Chris Free

*Senior Intelligence Advisor
National Environmental Protection Intelligence Program
Enforcement Support Division, Enforcement Branch
National Programs Directorate
Environmental Protection Service
Environment Canada
Tel: 819-994-0497
Fax: 819-953-3459
E-mail: chris.free@ec.gc.ca*

-----Original Message-----

Sent: June 18, 2004 2:44 PM
To: Lisane.Hurtubise@rcmp-grc.gc.ca
Subject: Re: RCMP Web Comment

s.19(1)

Hello Lisane,

000382

05/08/2004

I have attached 2 documents. They outline the information I uncovered going through the AECL file on Dr. Powers school in Port Hope.

The paper titled "Endangerment Charges" was sent to the Port Hope Police yesterday as your Bowmanville operator would not provide me with an e-mail address. With all due respect to the Port Hope Police, they do not have the resources or the expertise to deal with this matter.

The paper titled "DR. Powers Nuclear" is a presentation I made to Port Hope Council. The Director of AECL and the Superintendent of the School Board were both at Council when I presented. During their response, they were both asked by a Councilor if there were any inaccuracies in my paper. They responded "NO".

AECL did a partial radon test on the school last month but did no sub-slab testing to ascertain the composition of the material. I have no faith in any thing they say as they were responsible for covering up the contamination for the past 26 years.

I would like to know how I should go about pursuing this matter through legal channels.

Thank you for responding.

 **s.19(1)**

>From: "Lisane Hurtubise" <Lisane.Hurtubise@rcmp-grc.gc.ca>

 **s.19(1)**

>Subject: Re: RCMP Web Comment

>Date: Fri, 18 Jun 2004 10:43:27 -0400

>

>Good morning,

>

>I received your email this morning and I just wanted to get more information about what exactly this document is and who you want to send it to. If you can provide me with more information, I would gladly help you out with this.

>

>Thank you,

>

>

>Lisane Hurtubise

>RCMP National Youth Strategy

>Strategie nationale de la GRC sur la jeunesse

>tel.: 613.993.4147

>fax.: 613.998-2405

>lisane.hurtubise@rcmp-grc.gc.ca

>

>

>>>> WebMonitor mail -  06/17/04 03:04PM >>>

>(comments)

>-----

>I am trying to send a document concerning child endangerment issues. Your operator in Bowmanville

000383

05/08/2004

was completely uncooperative and unprofessional.

>If I didn't think this matter merited the RCMP's attention, I wouldn't waste my time contacting you.

>Please forward an email address so that I may send this document.

>-----

>

>

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June 17, 2004

To whom it may concern,

Atomic Energy of Canada Limited, the Atomic Energy Control Board (now CNSC) and our public school board have conspired since 1978 to keep the radioactive contamination in Dr. Powers and other local schools in Port Hope and Cobourg hidden from the public. They have knowingly and negligently put our children in an extremely dangerous situation.

They should be charged with child endangerment for every child (About 1200 of them) that has attended Dr. Powers since 1978.

Further, the AECL files on all the schools in Port Hope and Cobourg should be independently analyzed to ascertain their levels of contamination. If conditions similar to Dr. Powers are found, child endangerment charges for the children who have attended those schools since contamination was found should also be filed.

First Testing

The first testing of Dr. Powers occurred in January 1976. Tests conducted in the original part of the school were consistent with background radiation levels for this area of about .3pCi/l. Tests conducted where the original building joined the addition (the basement store rooms) were as high as 19.5 pCi/l or about 65 times as high.

Despite readings almost 5 times as high as the allowable limits, no investigation or remedial work was ordered. These tests were done the week after St. Mary's School was closed for 2 years to clean up contamination.

Second Testing

A confidentiality agreement was signed between the Atomic Energy Control Board and the Public School Board in June 1978, before any further testing was started. This round of testing showed very elevated readings in the storage rooms, the gymnasium and the kindergarten. These readings were all 10 times as high as the original part of the school and far higher than the level at which further investigation should occur.

They also drilled a hole through the slab to test the material below. The 4 tests on this location gave results of 14, 198, 276 & 506 pCi/L, the last 2 tests just 3 hours apart. We don't know the actual level of contamination below the slab as the readings were still rising. The hole was then plugged and never tested again.

In the report to the Atomic Energy Control Board the day after testing was completed, R.J. Beal states, "Samples at S-4, A-1 & A2 (sub-slab and store rooms) would appear to indicate the presence of source material beneath the slab".

Federal-Provincial Task Force on Radioactivity

I would now like to quote from a document from April 7, 1977 titled "Criteria for Radioactive Clean-up in Canada" from the Atomic Energy Control Board. These were the regulations that were in place when the 1978 round of testing took place.

"The primary clean-up criteria, for radon daughter product, is 0.02 Working Levels. In addition, if contamination is found that was introduced by human activities, it should where practical, be removed to an approved site".

"In addition to the primary criteria for radon daughters, a lower investigation level is specified. The investigation level is needed because the concentration of radon and its daughter products varies widely from time to time and place to place, and therefore a measurement that is close to the clean-up criterion is insufficient by itself to indicate whether remedial action is needed. The investigation involves repeating the measurements and looking for sources of contamination".

"Remedial measures start with a detailed survey of the building and its surroundings in order to locate and identify the source of the radon or gamma radiation. Any radioactive material found will be removed to an appropriate waste management site, or if this is not practical, other measures may be taken such as improving the ventilation or sealing the walls and the floor of the basement. Once remedial measures have been started, they should be continued until the radiation and radon levels have been reduced to the normal range of the background in that region, or below the criterion, whichever is lower".

Despite the clear direction provided by these regulations, the Atomic Energy Control Board and the Public School Board did absolutely no investigation or remediation of Dr. Powers School. They decided to risk the health of our children rather than do the clean-up their own rules mandated them to do.

Nuclear Experts

I have sought the opinions of independent nuclear experts on the situation at Dr. Powers. Their conclusions are that:

- 1) Remediation work should have been ordered on the storerooms in 1976.
- 2) The Atomic Energy Control Board should have ordered further sub-slab testing in 1978.
- 3) A monitoring program should have been instituted in 1978
- 4) Full disclosure should have been made to the parents about the problem in 1978.

How have the School Board and the nuclear regulators dealt with it:

- 1) They waited 28 years to repair the storerooms.
- 2) The sub-slab hole was plugged in 1978 and never spoken of again.
- 3) The school was tested 3 times in 26 years. Monitoring should be 24/7.
- 4) There was no disclosure and the Director of AECL lied to us about the result of remediation.

Dr. Powers Testing

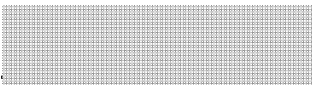
The recent testing program at Dr. Powers (May 2004) is in no way indicative of the radon levels since the last testing in 1996. How can it be accurate when the School Board repaired the largest source of radon entry and activated the previously silent fans before the testing began? These are not the conditions that have been in place for the last 8 years.

This testing was done by Atomic Energy of Canada Limited, who are the regulatory body responsible for the cover-up. This entire episode has been nothing but a farce.

There were other schools mentioned with elevated radiation levels in the Dr. Power file. When I contacted Parent Councils from the schools, they had no idea their schools had ever been tested.

It is absolutely disgusting that our elected officials, our regulatory bodies and our school board are willing to place our children in dangerous situations to protect the interests of the nuclear industry.

Thank You,



s.19(1)

The first testing of Dr. Powers occurred in January 1976. Tests conducted in the original part of the school were consistent with background radiation levels for this area of about .3pCi/l. Tests conducted where the original building joined the addition (the basement store rooms) were as high as 19.5 pCi/l or about 65 times as high.

In a Feb. 20, 1976 letter to Director of Education Thom, Mr. Aitkens of the Ontario Ministry of Labor states:

- Without very detailed testing and examination, which would be quite unjustified at this time, I cannot completely exclude the possibility of an abnormal source of Radon.

1978 Testing

In a June 8, 1978 letter to Director of Education, Mr. Thom, RK Hendrickson, Project Coordinator for the Atomic Energy Control Board refers to an agreement drawn up between AECB and the School Board.

In the July 7, 1978 letter to Hendrickson, Mr. Thom included 2 copies of the aforementioned agreement to AECB with the understanding that one copy would be returned to the School Board.

There was no copy of this agreement in the file I was given. Where is it and what did it contain?

Why did they wait 2 years to do further testing? How much damage was done to those children during that 2 year period?

This round of testing showed very elevated readings in the storage rooms, the gymnasium and the kindergarten. These readings were all 10 times as high as the original part of the school and far higher than the level at which further investigation should occur.

They also drilled a hole through the slab to test the material below. The 4 tests on this location gave results of 14, 198, 276 & 506 pCi/L, the last 2 tests just 3 hours apart.

In the August 9, 1978 report (The day after testing was completed) to R.K. Hendrickson at the Atomic Energy Control Board, R.J. Beal states, "Samples at S-4, A-1 & A2 (sub-slab and store rooms) would appear to indicate the presence of source material beneath the slab".

On Jan. 23, 1979, Glen Case wrote to the Atomic Energy Control Board and stated. "It would appear that there is not a radon problem. Unless otherwise instructed, we will not be taking any more samples in this structure. Indeed the file was closed and no further testing, remediation or monitoring was done for 15 years on any part of the school.

1993 Testing

Testing conducted in July 1993 showed 7 of 9 tests above the investigation level and one test above the action level. In February 1994, Cairns recommended to the School Board that remedial work be carried out in the gym.

The School Board removed the 2X2 baseboard around the gym, applied foam in the cavity and then replaced the baseboard. It had no effect on the radon level in the gymnasium.

The May 29, 1995 letter from Cairns to the School Board states, "As can be seen from the table, the results of all radon testing in the gymnasium are essentially the same. This suggests that the remedial work carried out in the gymnasium did not reduce the radon level in the gymnasium".

The school board installed air handling equipment in 1996 and the subsequent tests showed the "occupied areas" of the school were within acceptable levels. There has been no testing or monitoring in the past 8 years.

Low Level Radioactive Waste

Glen Case has been personally involved in the Dr. Powers file since 1979 when he said no further sampling was required despite one reading of 506 pCi/L. This reading was over 1600 times higher than the readings they got in the Library at the other end of the school.

Did this not raise alarm bells for someone?

I thought the LLRW's mandate was to identify contaminated sites in Port Hope.

Why was Dr. Powers not tested further to assess the sub-slab contamination?

The first sub-slab reading taken at 10:30 was 276 pCi and the one taken 3 hours later was 506 pCi/l, then they sealed up the hole. How high are the actual levels down there?

The action level for radon daughters is 20 mWl and the investigation level is 10 mWl.

Despite 7 out of 9 readings in July 1993 being between 10- 25 mWl, no investigation or remediation was ordered.

When I spoke with Mr. Case on April 24th at the Home Show with a witness present, he assured me that the remedial work carried out in 1994 was successful. However, when I inspected the file on April 26th, a letter from CAIRS to the school board states "The remedial work carried out in the gymnasium did not reduce the radon level".

Atomic Energy Canada Limited should have ordered additional sub-slab testing to determine the level of contamination of the soil and an ongoing monitoring program.

Concerns at other Schools

I have no idea of contamination in other schools other than the following quotes that appeared in the Dr. Powers file. I have spoken to parents at one of the schools mentioned below and they had no idea their school had ever been considered for testing.

In his Feb. 20, 1976 letter to Director of Education Thom, Mr. Aitkens of the Ontario Ministry of Labor states:

- Special attention was given also to George Hamilton School in Welcome and Burnham School in Cobourg because of reports that contaminated fill was used there. Though I am convinced it is erroneous, I have included in the report the higher than normal figure of 20 pCi/l found on the first sampling, since it was reported to your staff by telephone.

*** What evidence leads him to think the 20pCi/l reading is erroneous?

*** Why would they discount this reading and not do any further testing?

*** Was it George Hamilton or Burnham school that had this reading?

In a Feb. 1996 report to the School Board from Brad Franklin, Mr. Franklin states, "Dr. Powers school had the highest readings of all Port Hope schools although it was not the highest of this Board's schools.

Where is the school that tested higher for Radon than a Port Hope school?

Is there another buried treasure under a Cobourg school the same as at Dr. Powers?

Meeting with Dr. Roa

I met with Dr. Roa, Joe Hubbard from the school board and Mark Stephenson in Mayor Austin's office on April 29th. Dr. Roa admitted that further remedial work should have been undertaken when the first attempt was unsuccessful.

He also agreed that the Atomic Energy Control Board should have ordered further testing beneath the slab when they got the 506 pCi/l reading.

Dr. Roa can't say this school is safe when there is no test data of any kind since 1996 and no remediation of the original problem areas.

The result of the meeting was that the school board would do a visual inspection and then begin complete testing of Dr. Powers including sub-slab. They will also be instituting an ongoing monitoring program. The school board has already broken this promise.

Has the school board advised the custodians of the dangerous levels in the supply rooms as is required under the Occupational Health & Safety Act?

Speaking of workers rights, have Municipal employees been advised of the dangers they face at different sites they have to attend to?

Have all workers at the water treatment plant been notified of the potential contamination they face from being in the plume from Cameco?

When was the last time this School Board ordered a radon test or radon monitoring at any of its schools? If so what schools were tested and for what reason?

Did the School Board have enough expertise to recognize the problems or did they just choose to avoid it the same as AECL has?

This problem is far more serious than Walkerton and has affected far more people. Why hasn't a Public Inquiry been called into the actions of the nuclear industry and the federal regulatory bodies? Sadly, it appears we have the nuclear version of Stan Koebel looking after the best interests of Port Hope residents.

Recommendations

That the Municipality enact a bylaw mandating that all schools and public buildings providing services and programs for our children be tested by an independent firm and that ongoing monitoring programs be implemented. Further, Indoor Air Quality in all these buildings must adhere to the Ashrae standards.

That a full Public Inquiry into the actions of the Canadian Nuclear Safety Commission, Atomic Energy of Canada Limited, the Low Level Radioactive Waste Office and their predecessors for their blatant disregard for the health of our children.

The people responsible for this flagrant disregard of the health of our children, teachers and support staff must be held accountable. Policy must be implemented to prevent this from occurring again. Files must be analyzed by an independent source to determine non-compliance or dereliction of duty.

I understand that the Port Hope Community Health Concerns Committee recommends one kind of health study that is designed for groups of people who were in contaminated areas over the years. I recommend that students and staff at Dr. Powers school be included on that list for such a study known as a "historical cohort" study.

That immediate testing be ordered by the LLRW Office to determine the composition of the material beneath the gym and kindergarten rooms.

In Closing

Mark Stephenson was unbiased during the meeting I attended with HIM, Dr. Roa and Joe Hubbard. However, he has refused to provide me with any written report on Dr. Roa's findings or recommendations.

Dr. Roa's public statements to date do not reflect the severity of several entries in the file. He has been little more than an apologist for AECL and the School Board. He agreed that the points I raised merit further action, but he will not comment publicly. Is this the level of peer review we can expect on Cameco's SEU application as well?

The radon action level for homes, schools and other buildings established by the US Environmental Protection Agency is 4 pCi/l (picocuries per litre). These are the same as the levels used by the World Health Organization and virtually all of the Western world. Canada's acceptable levels are 5 times as high at 20 pCi/L. They have to set the level this high because of the amount of elevated contamination they have to deal with.

The School Board and Atomic Energy of Canada Limited have known about the contamination of Dr. Powers for 28 years and have done nothing to remedy the original problem areas nor find out what is under the gym and kindergarten.

How could they gamble with the health of our children that way? If the School Board has been aware of the sub-slab contamination, it would explain why they have been trying so hard to close Dr. Powers the past few years. Was Thomas Gillbard the other school?