Dear [REDACTED]:

Re: Your request for access to information under Part II of the Access to Information and Protection of Privacy Act, 2015 [Our File #: MAE/063/2019]

On March 19, 2019, the Department of Municipal Affairs and Environment received your request for access to the following records/information:

“Any notes, memos or meeting minutes produced, written or compiled by Newfoundland and Labrador’s representative on the Federal-Provincial-Territorial Committee on Drinking Water regarding the work of that committee. Timeframe: January 1, 2016, to present. - Any correspondence or emails sent or received by Newfoundland and Labrador’s representative on the Federal-Provincial-Territorial Committee on Drinking Water (CDW) regarding the CDW’s work or guidelines on lead, copper and corrosion control. Timeframe: June 1, 2016, to present.”

I am pleased to inform you that a decision has been made by the Deputy Minister for the Department of Municipal Affairs and Environment to provide access to some of the requested information.

However, certain text contained within the records has been refused in accordance with the following exceptions to disclosure, as specified in the Access to Information and Protection of Privacy Act, 2015 (the Act):

Section 34(1)(a)(i): “The head of a public body may refuse to disclose information to an applicant if the disclosure could reasonably be expected to harm the conduct by the government of the province of relations between that government and the following or their agencies: the government of Canada or a province.”

It is important to note that some of the documents contained in this file are in draft form and should not be relied upon for the purposes of technical guidance. Please see the Health Canada website for any approved final versions, as these would be the appropriate and current guidelines.
As required by 8(2) of the Act, we have severed information that is unable to be disclosed and have provided you with as much information as possible. In accordance with your request for a copy of the records, the appropriate copies have been enclosed.

Please be advised that you may appeal this decision and ask the Information and Privacy Commissioner to review the decision to provide partial access to the requested information, as set out in section 42 of the Act (a copy of this section of the Act has been enclosed for your reference). A request to the Commissioner must be made in writing within 15 business days of the date of this letter or within a longer period that may be allowed by the Commissioner. Your appeal should identify your concerns with the request and why you are submitting the appeal.

The appeal may be addressed to the Information and Privacy Commissioner as follows:

Office of the Information and Privacy Commissioner
2 Canada Drive
P. O. Box 13004, Stn. A
St. John’s, NL. A1B 3V8
Telephone: (709) 729-6309
Toll-Free: 1-877-729-6309
Facsimile: (709) 729-6500

You may also appeal directly to the Supreme Court Trial Division within 15 business days after you receive the decision of the public body, pursuant to section 52 of the Act (a copy of this section of the Act has been enclosed for your reference).

Please be advised that responsive records will be published following a 72 hour period after the response is sent electronically to you or five business days in the case where records are mailed to you. It is the goal to have the responsive records posted to the Completed Access to Information Requests website within one business day following the applicable period of time. Please note that requests for personal information will not be posted online.

If you have any further questions, please feel free to contact me by telephone at 709-729-7183 or by e-mail at ryncollins@gov.nl.ca.

Sincerely,

Ryan Collins
ATIPP Coordinator
Municipal Affairs and Environment

Enclosures
Access or correction complaint

42. (1) A person who makes a request under this Act for access to a record or for correction of personal information may file a complaint with the commissioner respecting a decision, act or failure to act of the head of the public body that relates to the request.

(2) A complaint under subsection (1) shall be filed in writing not later than 15 business days

(a) after the applicant is notified of the decision of the head of the public body, or the date of the act or failure to act; or

(b) after the date the head of the public body is considered to have refused the request under subsection 16(2).

(3) A third party informed under section 19 of a decision of the head of a public body to grant access to a record or part of a record in response to a request may file a complaint with the commissioner respecting that decision.

(4) A complaint under subsection (3) shall be filed in writing not later than 15 business days after the third party is informed of the decision of the head of the public body.

(5) The commissioner may allow a longer time period for the filing of a complaint under this section.

(6) A person or third party who has appealed directly to the Trial Division under subsection 52(1) or 53(1) shall not file a complaint with the commissioner.

(7) The commissioner shall refuse to investigate a complaint where an appeal has been commenced in the Trial Division.

(8) A complaint shall not be filed under this section with respect to

(a) a request that is disregarded under section 21;

(b) a decision respecting an extension of time under section 23;

(c) a variation of a procedure under section 24; or

(d) an estimate of costs or a decision not to waive a cost under section 26.

(9) The commissioner shall provide a copy of the complaint to the head of the public body concerned.
Direct appeal to Trial Division by an applicant

52. (1) Where an applicant has made a request to a public body for access to a record or correction of personal information and has not filed a complaint with the commissioner under section 42, the applicant may appeal the decision, act or failure to act of the head of the public body that relates to the request directly to the Trial Division.

(2) An appeal shall be commenced under subsection (1) not later than 15 business days

(a) after the applicant is notified of the decision of the head of the public body, or the date of the act or failure to act; or

(b) after the date the head of the public body is considered to have refused the request under subsection 16(2).

(3) Where an applicant has filed a complaint with the commissioner under section 42 and the commissioner has refused to investigate the complaint, the applicant may commence an appeal in the Trial Division of the decision, act or failure to act of the head of the public body that relates to the request for access to a record or for correction of personal information.

(4) An appeal shall be commenced under subsection (3) not later than 15 business days after the applicant is notified of the commissioner’s refusal under subsection 45(2).
Hi Folks:

Thanks for keeping us up to date.

Forgive me if this has been asked before, but has there been any thought towards aligning sampling advice in the new lead document what is in the corrosion control document? I realize they are designed for a different purpose, however it would be useful if there were consistent so that results from sampling for health risks could be pooled to be useful data for corrosion control investigations. If this is not realistic, then perhaps we can refer to the corrosion document and explain why they different and when one would choose one over the other.

-For example, advice for sampling residences (A.2.2.2) in the corrosion control document is similar, but not quite the same as the proposed “30MS” but not quite the same – could the same protocol not be used for both?

Any thoughts?

Dave

---

From: Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Sent: Wednesday, June 15, 2016 8:43 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; Fishwick, David HLTH:EX; ghsomers@gov.pe.ca; hkhok@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: France Lemieux; John Cooper; Joyce Mortimer; Michele Giddings; Richard Carrier; Stephanie McFadyen; Veronique Morisset; Wendy Enright
Subject: CDW: Update on lead document

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer's home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.
Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019
Haskell, Ellen

From: Veronique Morisset <Veronique.Morisset@hc-sc.gc.ca>
Sent: Tuesday, July 12, 2016 3:35 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca;
    David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; France Lemieux;
    ghsomers@gov.pe.ca; Khan, Haseen; John Cooper; Joyce Mortimer;
    Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha; Michele Giddings;
    MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca;
    Richard Carrier; sam.ferns@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie
    McFadyen; Wendy Enright
Subject: CDW: Updated lead document
Attachments: Lead 2016-0712 compared to Nov 2015.pdf

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here's a quick list of the sections with changes and the nature/reason for each of the changes:

3.1, 3.1.1, 3.1.2 -- Additional of RDT and related changes
5.1.1 -- correction of references; correction of description of MB study, as requested by Kim
5.1.2 -- addition of background information on the RDT protocol
7.1.2.6 -- New section, to provide relevant information complementary to what is in the uranium document
10.2 -- Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as
    requested by Satish
12.0 -- Addition of relevant references for above changes
Appendix B -- Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cell: 613-277-2019

Gestionnaire, Division du programme de la qualité de l’eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019

Veronique Morisset---2016-06-15 11:42:41 AM---CDW members, Following the discussion at the last meeting, and
having reviewed your impact paragraph
CDW members,

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Please let us know if you have any concerns with this approach.

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veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

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veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019
Potential copyright material

If you wish to obtain a copy please contact the ATIPP Office at (709) 729-7072 or atipoffice@gov.nl.ca.
From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Friday, July 22, 2016 4:22 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
Cc: Veronique Morisset; France Lemieux
Subject: CDW: Question re Lead service line replacement programs

CDW folks;

Please see Kim’s question, below. Any feedback you can provide is greatly appreciated!

Hope everyone is having a good summer.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574

----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-07-22 02:46 PM -----

From: "Philip, Kim (SD)" <Kim.Philip@gov.mb.ca>
To: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Date: 2016-07-22 01:46 PM
Subject: Question for CDW Members on LSL Replacement Programs?

Hi Joyce,

Could ask CDW members if any have, or are considering, provincial or territorial lead service line replacement programs?

Haskell, Ellen

From: Fishwick, David HLTH:EX <David.Fishwick@gov.bc.ca>
Sent: Friday, July 22, 2016 5:24 PM
To: 'Joyce Mortimer'; 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca'; 'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; Khan, Haseen; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'MLeBlanc-Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
Cc: 'Veronique Morisset'; 'France Lemieux'
Subject: RE: Question re Lead service line replacement programs

Not something we are considering at the moment.

From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Sent: Friday, July 22, 2016 11:52 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; Fishwick, David HLTH:EX; ghsomers@gov.pe.ca; hkhain@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
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Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

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...in line with Recommendation #41 of the Flint Water Advisory Task Force's March 2016 Final Report (http://www.michigan.gov/documents/snyder/FWATF_FINAL_REPORT_21March2016_517805_7.pdf) that the state “Develop a model LSL replacement program and funding mechanisms for financing work on private property”.

Kim Philip
Kimberley A. Philip, M.Eng., P.Eng.,
Director, Office of Drinking Water
1007 Century Street, Winnipeg, MB R3H 0W4
Phone: 204-945-7010; Cell: 204-232-0022
Fax: 204-945-1365; E-mail: kim.philip@gov.mb.ca
24 Hr Emergency Response Line: 204-944-4888
Website: manitoba.ca/drinkingwater

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Haskell, Ellen

From: LeBlanc-Havard, Michele <MLeBlanc-Havard@GOV.NU.CA>
Sent: Friday, July 22, 2016 5:29 PM
To: 'Fishwick, David HLTH:EX'; 'Joyce Mortimer'; 'Angelina. Polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gov.qc.ca'; 'Donald.Reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; 'Kh.Haseen@gnb.ca'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'Pat.Brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'Sam.Ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
Cc: 'Veronique Morisset'; 'France Lemieux'
Subject: RE: Question re Lead service line replacement programs

Not in Nunavut

M

From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: July 22, 2016 3:54 PM
To: 'Joyce Mortimer'; 'Angelina. Polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gov.qc.ca'; 'Donald.Reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; 'Kh.Haseen@gnb.ca'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; LeBlanc-Havard, Michele; 'Pat.Brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'Sam.Ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
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Cc: Veronique Morisset; France Lemieux
Subject: CDW: Question re Lead service line replacement programs

CDW folks;

Please see Kim’s question, below. Any feedback you can provide is greatly appreciated!

Hope everyone is having a good summer.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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Kimberley A. Philip, M.Eng., P.Eng.,
Director, Office of Drinking Water
1007 Century Street, Winnipeg, MB R3H 0W4
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24 Hr Emergency Response Line: 204-944-4888
Website: manitoba.ca/drinkingwater
Haskell, Ellen

From: Peter Workman <Peter_Workman@gov.nt.ca>
Sent: Friday, July 22, 2016 6:10 PM
To: LeBlanc-Havard, Michele; 'Fishwick, David HLTH:EX'; 'Joyce Mortimer'; 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca'; 'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; Khan, Haseen; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'pat.brooks@gov.yk.ca'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
Cc: 'Veronique Morisset'; 'France Lemieux'
Subject: RE: Question re Lead service line replacement programs

Not something in NWT at this time.
Not many lead services in place.
Peter

Peter Workman
Chief Environmental Health Officer
Population Health
Health and Social Services
867-767-9066 Ext. 49260
Cell: 867-445-8761
Fax: 867-669-7517
P.O. Box 1320, Yellowknife NT X1A 2L9

Peter Workman
Hygiéniste en chef du milieu
Santé de la population
Santé et Services sociaux
867-767-9066, poste 49260
Cell. : 867-669-7517
Téléc. : 867-669-7517
C. P. 1320, Yellowknife NT X1A 2L9

Outside of regular business hours (afterhours or on weekends) if you require urgent EHO assistance please contact the Confidential Public Health Line staff at 867-920-8646.

Si vous avez besoin d'aide immédiate de l'agent d'hygiène du milieu en dehors des heures normales de travail (les soirs et les fins de semaine), communiquez avec le personnel de la ligne téléphonique confidentielle de la santé publique au 867-920-8646.

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Le présent message est destiné uniquement à la personne ou à l'organisation à laquelle il s'adresse. Il peut contenir des renseignements de nature protégée ou confidentielle qui ne peuvent être divulgués sous peine de poursuites conformément aux lois applicables. Si la personne qui lit ce message n'est ni celle à laquelle il s'adresse ni l'employé ni l'agent responsable de sa transmission, prière de prendre note que toute divulgation, distribution ou copie du contenu est strictement interdite. Si vous avez reçu ce message par erreur, veuillez le détruire immédiatement et nous en informer par téléphone. Merci.
From: LeBlanc-Havard, Michele [mailto:MLeBlanc-Havard@GOV.NU.CA]
Sent: Friday, July 22, 2016 1:59 PM
To: 'Fishwick, David HLTH:EX'; 'Joyce Mortimer'; 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gov.qc.ca'; 'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; 'hkhan@gov.nl.ca'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'pat.brooks@gov.yk.ca'; Peter Workman; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
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Subject: RE: Question re Lead service line replacement programs

Not in Nunavut

M

From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: July 22, 2016 3:54 PM
To: 'Joyce Mortimer'; 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gov.qc.ca'; 'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; 'hkhan@gov.nl.ca'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; LeBlanc-Havard, Michele; 'pat.brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'
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Subject: RE: Question re Lead service line replacement programs

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Sent: Friday, July 22, 2016 11:52 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gov.qc.ca; donald.reid@gov.ab.ca; Fishwick, David HLTH:EX; ghsomers@gov.pe.ca; hkhan@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
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24 Hr Emergency Response Line: 204-944-4888
Website: manitoba.ca/drinkingwater

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Haskell, Ellen

From: Sam Ferris <Sam.Ferris@wsask.ca>
Sent: Friday, July 22, 2016 8:08 PM
To: Joyce Mortimer; Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gov.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan; Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; Satish.Deshpande@ontario.ca
Cc: Veronique Morisset; France Lemieux
Subject: RE: Question re Lead service line replacement programs

Saskatchewan does not have and is not contemplating a provincially funded program, although we have tried to motivate cities and larger communities where systems are old enough to have lead service lines in place to address the concerns. Typically LSL are addressed by the municipality and the property owner here.

Sam

Sam Ferris • B.Sc.(Hons)
Executive Director, Environmental and Municipal Management Services
420-2365 Albert Street
Regina, SK S4P 4K1
Ph: 306.787.6193 | Cell: 306.536.1480 | Fax: 306.787.0780
wsask.ca | Sam.Ferris@wsask.ca

Please consider the environment before printing this e-mail

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Hi Joyce,

Could ask CDW members if any have, or are considering, provincial or territorial lead service line replacement programs?


Kim Philip
Kimberley A. Philip, M.Eng., P.Eng.,
Director, Office of Drinking Water
1007 Century Street, Winnipeg, MB R3H 0W4
Phone: 204-945-7010; Cell: 204-232-0022
Fax: 204-945-1365; E-mail: kim.philip@gov.mb.ca
24 Hr Emergency Response Line: 204-944-4888
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Manitoba Sustainable Development

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Hi Kim,

No such program in Québec, and no intention to develop one, as far as I know.

Caroline

Caroline Robert, directrice par intérim
Direction de l’eau potable et des eaux souterraines
Ministère du Développement durable, de l’Environnement,
et de la Lutte contre les changements climatiques
675, René-Lévesque Est, 8e étage, boîte 42
Québec (Québec) G1R 5V7
Tél. 418-521-3885, poste 4938
Fax. 418-644-2003
Courriel: caroline.robert@mddelcc.gouv.qc.ca

De : Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Envoyé : 22 juillet 2016 14:52
À : Angelina.polegato@novascotia.ca; Robert, Caroline <Caroline.Robert@mddelcc.gouv.qc.ca>; donald.reid@gov.ab.ca;
David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; hkhann@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca;
MLEBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca;
Satish.Deshpande@ontario.ca
Cc : Veronique.Morisset@hc-sc.gc.ca; France.Lemieux@hc-sc.gc.ca
Objet : CDW: Question re Lead service line replacement programs

CDW folks;

Please see Kim’s question, below. Any feedback you can provide is greatly appreciated!

Hope everyone is having a good summer.

Regards,
Joyce

Joyce Mortimer
Hi Joyce,

Could ask CDW members if any have, or are considering, provincial or territorial lead service line replacement programs?

...in line with Recommendation #41 of the Flint Water Advisory Task Force’s March 2016 Final Report (http://www.michigan.gov/documents/snyder/FWATF_FINAL_REPORT_21March2016_517805_7.pdf) that the state “Develop a model LSL replacement program and funding mechanisms for financing work on private property”.

Kim Philip
Kimberley A. Philip, M.Eng., P.Eng.,
Director, Office of Drinking Water
1007 Century Street, Winnipeg, MB R3H 0W4
Phone: 204-945-7010; Cell: 204-232-0022
Fax: 204-945-1365; E-mail: kim.philip@gov.mb.ca
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Hi Kim

We don't have a provincial plan for LSL now.

Satish

CDW folks;

Please see Kim's question, below. Any feedback you can provide is greatly appreciated!

Hope everyone is having a good summer.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574

----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-07-22 02:46 PM -----
Hi Joyce,

Could ask CDW members if any have, or are considering, provincial or territorial lead service line replacement programs?

...in line with Recommendation #41 of the Flint Water Advisory Task Force’s March 2016 Final Report (http://www.michigan.gov/documents/snyder/FWATF_FINAL_REPORT_21March2016_517805_7.pdf) that the state “Develop a model LSL replacement program and funding mechanisms for financing work on private property”.

Kim Philip
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Haskell, Ellen

From: Khan, Haseen
Sent: Monday, July 25, 2016 11:00 AM
To: 'Joyce Mortimer'; Angelina.polegato@novascotia.ca;
      Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca;
      David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca;
      Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca;
      Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
Cc: Veronique Morisset; France Lemieux
Subject: RE: Question re Lead service line replacement programs

No such program in NL at this time. Thanks.

Haseen

From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Sent: Friday, July 22, 2016 4:22 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca;
      David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-
      Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca;
      Satish.Deshpande@ontario.ca
Cc: Veronique Morisset; France Lemieux
Subject: CDW: Question re Lead service line replacement programs

CDW folks;

Please see Kim’s question, below. Any feedback you can provide is greatly appreciated!

Hope everyone is having a good summer.

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574

----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-07-22 02:46 PM -----

From: "Philip, Kim (SD)" <Kim.Philip@gov.mb.ca>
To: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Hi Joyce,

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...in line with Recommendation #41 of the Flint Water Advisory Task Force’s March 2016 Final Report (http://www.michigan.gov/documents/snyder/FWATF_FINAL_REPORT_21March2016_517805_7.pdf) that the state “Develop a model LSL replacement program and funding mechanisms for financing work on private property”.

Kim Philip
Kimberley A. Philip, M.Eng., P.Eng.,
Director, Office of Drinking Water
1007 Century Street, Winnipeg, MB R3H 0W4
Phone: 204-945-7010; Cell: 204-232-0022
Fax: 204-945-1365; E-mail: kim.philip@gov.mb.ca
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Haskell, Ellen

From: Fishwick, David HLTH:EX <David.Fishwick@gov.bc.ca>
Sent: Wednesday, July 27, 2016 3:05 PM
To: 'France Lemieux'
Cc: 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca';
'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; Khan, Haseen; 'John Cooper'; 'Joyce Mortimer'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'Kristina Taracha'; 'Michele Giddings'; 'MLeBlanc-Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca';
'Peter_Workman@gov.nt.ca'; 'Richard Carrier'; 'sam.ferris@wsask.ca';
'Satish.Deshpande@ontario.ca'; 'Stephanie McFadyen'; 'Veronique Morisset'; 'Wendy Enright'

Subject: RE: Updated lead document

Thanks France:

So am I interpreting this correctly for RDT - this is making an assumption that typical exposure in a school is the first and second 250mL of water that comes out of the school fountain at any given time, whereas for typical exposure in a residential environment it is assumed to include water beyond what is in the fixture, and therefore diluted/averaged by taking more volume?

Dave

From: France Lemieux [mailto:France.Lemieux@hc-sc.gc.ca]
Sent: Wednesday, July 27, 2016 10:11 AM
To: Fishwick, David HLTH:EX
Cc: 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca'; 'donald.reid@gov.ab.ca';
'ghsomers@gov.pe.ca'; 'hkhan@gov.nl.ca'; 'John Cooper'; 'Joyce Mortimer'; 'Kevin.Gould@gnb.ca';
'Kim.Philip@gov.mb.ca'; 'Kristina Taracha'; 'Michele Giddings'; 'MLeBlanc-Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca';
'Peter_Workman@gov.nt.ca'; 'Richard Carrier'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'; 'Stephanie McFadyen'; 'Veronique Morisset'; 'Wendy Enright'
Subject: RE: Updated lead document

Hello David,

The volumes differ because generally in schools, the highest concentrations correspond to the fountain and its immediate connecting piping, which is typically captured in the first 250mL of a sample,

Regards,

France

France Lemieux, M. Eng.

Head, Materials and Treatment Section/Healthy Environments and Consumer Safety Branch
Health Canada/Government of Canada

France.Lemieux@hc-sc.gc.ca/Tel.: 613-941-3166
Hi Veronique:

I have a question about the revised monitoring section in this (sections 3.1.1, and 3.1.2) When giving advice on random daytime sampling In Section 3.1.1. It advises taking a 1L sample for residential dwellings, however for schools and large buildings in 3.1.2. it advises taking two 125ml samples (presumably consecutive) and averaging the results. Is there a reason why these volumes are different?

Dave

From: Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Sent: Tuesday, July 12, 2016 11:05 AM
To: Angelina.bolegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Fishwick, David HLTH:EX; donald.reid@gov.ab.ca; France Lemieux; ghosomers@gov.pe.ca; hkhan@gov.nl.ca; John Cooper; Joyce Mortimer; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha; Michele Giddings; MLleBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; Richard Carrier; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie McFadyen; Wendy Enright
Subject: CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here’s a quick list of the sections with changes and the nature/reason for each of the changes:
3.1, 3.1.1, 3.1.2 -- Additional of RDT and related changes
5.1.1 -- correction of references; correction of description of MB study, as requested by Kim
5.1.2 -- addition of background information on the RDT protocol
7.1.2.6 -- New section, to provide relevant information complementary to what is in the uranium document
10.2 -- Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as requested by Satish
12.0 -- Addition of relevant references for above changes
Appendix B -- Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél: 613-957-1506 / cellulaire : 613-277-2019

Veronique Morisset---2016-06-15 11:42:41 AM---CDW members, Following the discussion at the last meeting, and having reviewed your impact paragraph

From: Veronique Morisset/HC-SC/GC/CA
To: Angelina.boleyn@novascotia.ca, Caroline.Robert@mddelcog.gouv.qc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ghilomos@poe.pe.ca, hhansen@gov.nl.ca, kevin.gould@qub.ca, kpm.philipps@gov.mb.ca, ml.glanc outset@gov.nu.ca, pnt.roueel@gov.sk.ca, peter.workman@gov.nt.ca, sam.ferris@wsask.ca, salish.deshpande@ontario.ca, Kristina.tarasche@hc-sc.gc.ca, Michele.Giddings@hc-sc.gc.ca, Richard.Carlier@hc-sc.gc.ca, Joyce.Mortimer@hc-sc.gc.ca, Wendy.Enright@hc-sc.gc.ca, stephanie.mcfadyen@hc-sc.gc.ca, veronique.morisset@hc-sc.gc.ca, joyce.mortimer@hc-sc.gc.ca, richard.carlier@hc-sc.gc.ca, stephanie.mcfadyen@hc-sc.gc.ca, veronique.morisset@hc-sc.gc.ca, W endy Enrigh t @HC-SC/GC/CA
Cc: France.Lemieux@HC-SC/GC/CA, John.Coo per@HC-SC/GC/CA, Joyce.Mortimer@HC-SC/GC/CA, Michele.Giddings@HC-SC/GC/CA, Richard.Carlier@HC-SC/GC/CA, Stephanie.Mcfadyen@HC-SC/GC/CA

Date: 2016-06-15 11:42 AM
Subject: CDW: Update on lead document

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer's home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Hi Veronique:

I have a question about the revised monitoring section in this [sections 3.1.1, and 3.1.2] When giving advice on random daytime sampling in Section 3.1.1. It advises taking a 1L sample for residential dwellings, however for schools and large buildings in 3.1.2. it advises taking two 125ml samples (presumably consecutive) and averaging the results. Is there a reason why these volumes are different?

Dave

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Sent: Tuesday, July 12, 2016 11:05 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gov.qc.ca; Fishwick, David HLTH:EX; donald.reid@gov.ab.ca; France Lemieux; ghsomers@gov.pe.ca; Khan, Hasen; John Cooper; Joyce Mortimer; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha; Michele Giddings; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; Richard Carrier; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie McFadyen; Wendy Enright
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(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

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document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

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Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
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From: Veronique Morisset/HC-SC/GC/CA
To: Angelina.polegato@novascota.ca, Caroline.Robert@mddealcc.gouv.qc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ghsoners@gov.pe.ca, hkhani@gov.ni.ca, Kevin.Gould@nib.ca, Kim.Phillips@gov.mb.ca, MLLeBlanc-Havard@GOV.NU.CA, pat.brooks@gov.yk.ca, Peter.Workman@gov.nl.ca, sam.ferris@wsask.ca, Satish.Deshpande@ontario.ca, Kristina.Tarasha/HC-SC/GC/CA/HC

Date: 2016-06-15 11:42 AM
Subject: CDW: Update on lead document

CDW members,

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Véronique

Véronique Morisset
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Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
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Hello David,

The volumes differ because generally in schools, the highest concentrations correspond to the fountain and its immediate connecting piping, which is typically captured in the first 250mL of a sample.

Regards,

France

---

From: Fishwick, David HLTH:EX <David.Fishwick@gov.bc.ca>
To: "Veronique Morisset" <Veronique.Morisset@hc-sc.gc.ca>, "Angelina.polegato@novascotia.ca" <Angelina.polegato@novascotia.ca>, "Caroline.Robert@mddelcc.gov.qc.ca" <Caroline.Robert@mddelcc.gov.qc.ca>, "donald.reid@gov.ab.ca" <donald.reid@gov.ab.ca>, "France.Lemieux@hc-sc.gc.ca" <France.Lemieux@hc-sc.gc.ca>, "ghsomers@gov.pe.ca" <ghsomers@gov.pe.ca>, "hkhans@gov.nl.ca" <hkhans@gov.nl.ca>, "Joyce Mortimer" <Joyce.Mortimer@hc-sc.gc.ca>, "Kevin.Gould@gov.nb.ca" <Kevin.Gould@gov.nb.ca>, "Kristina.Taracha" <kristina.taracha@hc-sc.gc.ca>, "Michele.Giddings" <michele.giddings@hc-sc.gc.ca>, "MLEBlanc-Havard@GOV.NU.CA" <MLEBlanc-Havard@GOV.NU.CA>, "Pat.Brooks@gov.yk.ca" <Pat.Brooks@gov.yk.ca>, "Peter_Workman@gov.nt.ca" <Peter.Workman@gov.nt.ca>, "Richard.Carriger" <richard.carriger@hc-sc.gc.ca>, "sam.ferris@wsask.ca" <sam.ferris@wsask.ca>, "Satish.Deshpande@ontario.ca" <Satish.Deshpande@ontario.ca>, "Stephanie.McFadyen" <Stephanie.McFadyen@hc-sc.gc.ca>, "Wendy.Enright" <wendy.enright@hc-sc.gc.ca>

Date: 2016-07-27 12:36 PM
Subject: RE: Updated lead document

"Fishwick, David HLTH:EX" ---2016-07-27 12:36:09 PM---Hi Veronique: I have a question about the revised monitoring section in this (sections 3.1.1, and 3.
Hi Veronique:

I have a question about the revised monitoring section in this (sections 3.1.1, and 3.1.2) When giving advice on random daytime sampling in Section 3.1.1. It advises taking a 1L sample for residential dwellings, however for schools and large buildings in 3.1.2. It advises taking two 125ml samples (presumably consecutive) and averaging the results. Is there a reason why these volumes are different?

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Sent: Tuesday, July 12, 2016 11:05 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Fishwick, David HLTH:EX; donald.reid@gov.ab.ca; France Lemieux; ghomers@gov.pe.ca; hkhan@gov.nl.ca; John Cooper; Joyce Mortimer; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha; Michele Giddings; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; Richard Carrier; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie McFadyen; Wendy Enright
Subject: CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here’s a quick list of the sections with changes and the nature/reason for each of the changes:
3.1, 3.1.1, 3.1.2 -- Additional of RDT and related changes
5.1.1 -- correction of references; correction of description of MB study, as requested by Kim
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7.1.2.6 -- New section, to provide relevant information complementary to what is in the uranium document
10.2 -- Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as requested by Satish
12.0 -- Addition of relevant references for above changes
Appendix B -- Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer’s home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
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From: Veronique Morisset <Veronique.Morisset@hc-sc.gc.ca>
Sent: Thursday, August 18, 2016 6:03 PM
To: Caroline.Robert@mddelcc.gouv.qc.ca; Angelina.polegato@novascotia.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; kristina.taracha@hc-sc.gc.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
Cc: john.cooper@hc-sc.gc.ca; Joyce.Mortimer@hc-sc.gc.ca; Stephanie.McFadyen@hc-sc.gc.ca; wendy.enright@hc-sc.gc.ca; michele.giddings@hc-sc.gc.ca; richard.carrier@hc-sc.gc.ca; France.Lemieux@hc-sc.gc.ca
Subject: CDW: Another version of the lead document
Attachments: Lead 2016-0818 (for public consultation) ENG.pdf

CDW Members:

Please find attached another version of the lead document, which incorporates changes to address Caroline's comments. As we have been working with Caroline to address her comments, it should address her issues, but please let us know if you have any concerns with this version. The highlighted changes (in sections 3.1, 3.1.1, 3.1.2, 5.1.2 + addition of corresponding newly published reference) are from this latest round of edits only.

(See attached file: Lead 2016-0818 (for public consultation) ENG.pdf)

As we are still hoping to get the document posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by September 2 at the latest.

We will follow up with you next week with the draft Qs and As for lead that we had committed to doing, so please provide any specific question that you would like us to include.

Thanks.

Véronique

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---2016-08-03 02:33:02 PM---Hi Veronique, We reviewed the new version of the document and I have concerns about the way the adde

From: <Caroline.Robert@mddelcc.gouv.qc.ca>
To: <Veronique.Morisset@hc-sc.gc.ca>
Cc: <Angelina.polegato@novascotia.ca>, <David.Fishwick@gov.bc.ca>, <donald.reid@gov.ab.ca>, <France.Lemieux@hc-sc.gc.ca>, <ghsomers@gov.pe.ca>, <hkhame@gov.nl.ca>, <john.cooper@hc-sc.gc.ca>, <Joyce.Mortimer@hc-sc.gc.ca>, <Kevin.Gould@gnb.ca>, <Kim.Philip@gov.mb.ca>, <kristina.taracha@hc-sc.gc.ca>, <michele.giddings@hc-sc.gc.ca>, <MLeBlanc-Havard@GOV.NU.CA>, <pat.brooks@gov.yk.ca>, <Peter_Workman@gov.nt.ca>, <richard.carrier@hc-sc.gc.ca>, <sam.ferris@wsask.ca>, <Satish.Deshpande@ontario.ca>, <Stephanie.McFadyen@hc-sc.gc.ca>, <wendy.enright@hc-sc.gc.ca>
Date: 2016-08-03 02:33 PM
Subject: RE: Updated lead document
Hi Veronique,

We reviewed the new version of the document and I have concerns about the way the added information is presented. In fact, I think it has the side effect of making Quebec’s current approach completely irrelevant, which would have a major impact on us.

I would much prefer having in section 3 a more balanced summary of the pros and cons of the various sampling protocols, recognizing that the choice of a sampling protocol must be made in accordance with the objective pursued. Indeed, sections 3.1 et 5.1 recognize that there are various possible objectives: « identifying sources of lead, controlling corrosion, assessing compliance, estimating exposure to lead », which does not seem to be taken into consideration in section 3.1.1 and 5.1.2.

Some other comments:

- **Section 3.1.1**: the recommendation to define zones of 100,000 residents and randomly choose in each 20 residences is not coherent with previous sections of the document recommending to first identify sectors at risk of having lead service lines and monitor them. We are not in favour of keeping this proposed change. Also, no consideration seems to be given to small systems.
- **Section 3.1.2**: there is a high potential for confusion at the section presents contradictory information. At first, it recommends to sample all furnaces and taps in every building. Then it indicates to prioritize the ones with lead service lines. And finally, for large buildings other than schools and daycares, it recommends to define the number of samples according to size and population of the building.

We also got the same question as Kristina: why recommending to sample every tap and fountain every year? We would consider more relevant that an intensive monitoring takes place once to identify the problems, with a lighter follow-up after.

- **Section 5.1.2**: the section indicates that the objective is to choose a protocol to assess exposure without mentioning why. After, the studies are only presented as to whether or not they are representative to assess exposure, and not for their potential benefits in meeting the chosen objective.

Also, the fully flushed protocol is presented as inadequate to establish average concentration and only be giving indications on minimal exposure. In Québec, we chose this protocol as a first step, which then leads to more in-depth investigations with other protocols once a significant concentration is found. We have used this « hybrid » approach for a few years now, and we consider that it proved its usefulness. FYI, there is a paper from l’École Polytechnique de Montreal recently published in Water Research (http://www.sciencedirect.com/science/article/pii/S0043135416302470) showing (in figure 2 and 3) that using 2 ug/l in full flushed samples is similar as using 10 ug/l with other protocols.

Caroline Robert, directrice par intérim
Direction de l'eau potable et des eaux souterraines
Ministère du Développement durable, de l'Environnement, et de la Lutte contre les changements climatiques
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De: Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Envoyé: 12 juillet 2016 14:05
À: Angelina.folegato@novascotia.ca; Robert, Caroline <Caroline.Robert@mddelcc.gouv.qc.ca>; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; France.Lemieux@france.lemieux@hc-sc.gc.ca; ghosomers@gov.pe.ca; hkhan@gov.nl.ca; John.Coop@john.cooper@hc-sc.gc.ca; Joyce.Mortimer@joyce.mortimer@hc-sc.gc.ca; Kevin.Gould@gov.on.ca; Kim.Phillip@gov.mb.ca; Kristina.Taracha@kristina.taracha@hc-sc.gc.ca; Michele.Giddings@michele.giddings@hc-sc.gc.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; Richard.Carrier@richard.carrier@hc-sc.gc.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie.McFadyen@stephanie.mcfadyen@hc-sc.gc.ca; Wendy.Enright@wendy.enright@hc-sc.gc.ca.
Objet : CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

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We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

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Veronique Morisset---2016-06-15 11:42:42 AM---CDW members, Following the discussion at the last meeting, and having reviewed your impact paragraph

From: Veronique Morisset
HC-SC/GC/CA
To: Angelina.polegato@novascotia.ca, Caroline.Robert@mddelcc.gouv.gc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ohsomers@gov.pe.ca, bkhan@gov.nt.ca, Kevin.Gould@nu.ca, Kim.Phillips@gov.mb.ca, MarieBlanc-Havard@GOV.NU.CA, pat.troock@gov.yk.ca, Peter.Workman@gov.nt.ca, sam.ferris@wsask.ca, Satish.Deshpande@ontario.ca, Kristina.Taracha@HC-SC/GC/CA@HWC, John.D.Coopera@HC-SC/GC/CA@HWC, Joyce.Mortimer@HC-SC/GC/CA@HWC, Michele.Giddings@HC-SC/GC/CA@HWC, Richard.Carrier@HC-SC/GC/CA@HWC, Stephanie.McFadyen@HC-SC/GC/CA@HWC, Veronique.Morisset@HC-SC/GC/CA@HWC, Wendy.Enright@HC-SC/GC/CA@HWC
Cc: France.Lemieux@HC-SC/GC/CA@HWC, John Cooper@HC-SC/GC/CA@HWC, Joyce Mortimer@HC-SC/GC/CA@HWC, Michele Giddings@HC-SC/GC/CA@HWC, Richard Carrier@HC-SC/GC/CA@HWC, Stephanie McFadyen@HC-SC/GC/CA@HWC, Veronique Morisset@HC-SC/GC/CA@HWC, Wendy
Enright@HC-SC/GC/CA@HWC
Date: 2016-06-15 11:42 AM
Subject: CDW: Update on lead document

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels
measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer’s home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

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Potential copyright material

If you wish to obtain a copy please contact the ATIPP Office at (709) 729-7072 or atippoffice@gov.nl.ca.
We are fine with the changes to 5.1.1 related to the Manitoba study. Thanks for incorporating them.

I find the changes to the sampling sections a bit confusing. If I’m interpreting correctly, RDT sampling of 20 randomly selected household taps per 100,000 residents is intended as a minimum compliance option for on-going monitoring? This is much less than the minimum 50 homes for 100,000 people associated with reduced monitoring in the corrosion control document (pg 10), even though the lead document says you need 2-5 or 3-5 times as many samples with RDT as with a stagnation protocol to be representative (page 4 and 14 respectively).

MB Health has also expressed concern that RDT does not provide the homeowner with sufficient information for estimating average exposure for individuals within the home – perhaps this issue could be flagged for future follow-up? I’m assuming Health Canada would be updating the factsheet for homeowners and could address the issue of assessing individual exposure at that time?

Sorry for responding with questions. We could probably live with the changes in the interest of moving forward. I am finding it a bit difficult to come up with an appropriate monitoring protocol based on an initial review of proposed changes though.
CDW folks. This is the last email of the day, I promise.

Because I will be away until August 15, I wanted to also send you a reminder to respond by August 10 regarding the revised lead document. Please ensure that you respond to Véronique directly, rather than to me. I'm always glad to be c.c.'d.

Thank you so much for being patient in receiving this very large batch of emails today!

Wishing you all a great couple of weeks.

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-07-29 04:03 PM -----
We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

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Veronique Morisset—2016-06-15 11:42:41 AM—CDW members, Following the discussion at the last meeting, and having reviewed your impact paragraph

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Please let us know if you have any concerns with this approach.

Véronique

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Gestionnaire, Division du programme de la qualité de l'eau
From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Monday, August 22, 2016 5:50 PM
To: Angelina.poegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: Veronique Morisset; France Lemieux
Subject: CDW: Qs and As regarding lead guideline document
Attachments: Lead Q&As 2016-0819.docx

CDW members:

On behalf of Véronique, and as promised, here are a few Qs and As we prepared, in anticipation of the publication of the guideline technical document on lead for public consultation. We are hoping that these will be helpful for jurisdictions to address questions. If members have comments, or questions that they would like to see included, please let us know as soon as possible and we will modify the document accordingly.

(See attached file: Lead Q&As 2016-0819.docx)

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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Questions & Answers

Lead in Canadian Drinking Water

1. Could there be lead in my drinking water?
For the most part, there is little lead in natural water sources in Canada. The water coming out of the drinking water treatment plant is unlikely to contain lead. However, lead has been commonly used in a variety of products, including drinking water systems, for many years because it is easy to shape and resistant to corrosion. The National Plumbing Code allowed lead as an acceptable material in drinking water pipes until 1975 and in solder until 1986. Many drinking water systems in Canada may still have some of these lead components in place today.

The most significant source of lead in drinking water is usually from lead service lines (water pipes that link the house to the main water supply), although leaching can also occur from lead solder in plumbing, or from fittings such as faucets made of brass. In addition to the age of the plumbing system, the amount of leaching is affected by many factors, including the length of time the water sits in the pipes — levels of lead leached into tap water increase with the amount of time the water sits in contact with materials that contain lead — and the chemistry of the water — there will be more leaching of lead if the water has a low pH (is acidic) or if the alkalinity (the ability of the water to stabilize the pH) is too low.

2. Why is Health Canada updating the guideline for lead in drinking water?
Science has evolved significantly since the existing guideline was developed. Current science cannot identify a level of exposure to lead below which there is no health concern. As lead in drinking water is primarily related to lead service lines buried under neighbourhoods across Canada and, to a lesser extent, to plumbing materials in private homes, it will take many years to remove or replace all the pipes, fittings and solder that still contain lead. The new guideline will assist jurisdictions in identifying areas affected by lead and help reduce exposure to Canadians.

3. What are the possible health effects from lead?
Lead toxicity has been extensively studied in humans, based on blood lead levels (BLLs). Effects that have been studied include neurological effects, increased blood pressure and kidney dysfunction in adults, as well as adverse neurodevelopmental and behavioural effects in children. The strongest association observed to date is between increased BLLs in children and reductions in intelligence quotient (IQ) scores.

4. How am I exposed to lead?
Everyone is exposed to trace amounts of lead through air, soil, household dust, food, drinking water and various consumer products. Lead has many industrial uses, including in lead-acid batteries and other products in the automotive industry. It has been used in paints and as an additive to gasoline, uses which are mostly no longer permitted in Canada. It has been found in many other consumer products, and the Government of Canada’s Lead Reduction Strategy identifies a number of actions aimed at reducing exposure to lead from
these products. Drinking water is not generally the most significant source of exposure to lead in Canada but can become a concern in cases where lead can leach from lead service lines and plumbing materials.

5. **How do I know if my tap water is affected by lead?**
The age of your home and neighbourhood is important. The National Plumbing Code allowed lead as an acceptable material in pipes until 1975 and in solder until 1986. This means that older neighbourhoods may have lead service lines, while more recent homes may have lead fittings or solder in their plumbing system. To determine whether there are lead service lines in your area, you can check with your municipality or water utility. Alternatively, a plumber can identify whether your service line is made of lead, or you can look at the line entering your home. If it is soft or easily dented when scraped with a knife, or if it is greyish-black, it is most likely made of lead or contains lead. You may want to call your municipality to find out whether lead is an issue in your town or neighbourhood. You can also look into having your tap water tested for lead content. Check with your province/territory or municipality to find out what your options are.

6. **What about schools and daycares?**
The proposed guideline recommends that utilities monitor the level of lead at each of the drinking water fountains or cold water taps where water is used for drinking or food preparation in schools and daycares. It also indicates that jurisdictions may choose to reduce monitoring if they have established that the lead issues have been identified and addressed.

7. **What can I do to reduce my exposure to lead from drinking water?**
If you know or suspect that your drinking water contains lead, you can make small changes to reduce exposure:

- Only use cold tap water for drinking or cooking, since hot water increases the leaching of lead and other metals from your plumbing.
- Flush out your plumbing after water has been sitting in the pipes for a few hours, such as first thing in the morning or when you get home from work. Flush the toilet, take a shower or start a load of laundry to clear the water from the service line, then run the tap until the water turns cold (about one minute) before drinking or cooking with any of the water from that tap.

8. **Can I treat my water at the tap?**
There are household water treatment devices available that are certified to remove lead from drinking water at the tap. Carbon-based filters are very effective and affordable; other effective but more costly treatment devices would use reverse osmosis or distillation technologies. Drinking water treatment devices can be installed at the tap (point-of-use) or where the water enters the house (point-of-entry). Point-of-use devices are preferred for removal of lead; for best results, these devices should be installed at the tap that is most commonly used for drinking water, in most cases the kitchen tap. Make sure that any device you purchase is certified to the NSF International standard for the removal of lead and that it is installed and maintained (or replaced) according to the instructions provided by the manufacturer.
Organizations that are accredited to certify drinking water materials (such as treatment devices) to NSF standards are listed below. See the organizations’ websites for listings of certified products:

- Canadian Standards Association (CSA) – www.csagroup.org
- Underwriters Laboratories Incorporated (UL) – www.ul.com
- International Association of Plumbing and Mechanical Officials (IAPMO) – www.iapmo.org
- Water Quality Association (WQA) – www.wqa.org

9. Is it safe to shower or wash clothes in water that contains lead?
Yes, it is safe to shower, bathe, wash dishes and clean clothes using tap water with higher lead levels. Lead from drinking water is not absorbed through the skin and is not taken in through breathing. That means that exposure to lead from showering, bathing, dishwashing or cleaning is not a concern.

10. What is being done to reduce the levels of lead in municipal drinking water?
Water utilities can optimize the water treatment process to reduce the potential for corrosion in the distribution system. Lead leaching can be controlled through the use of corrosion control practices such as the adjustment of pH and/or alkalinity of the water or the use of corrosion inhibitors. These factors are controlled by the utility that supplies your drinking water as system-wide adjustments.

11. How is the safety of drinking water ensured by the various levels of government in Canada?
Health Canada works in collaboration with the provinces and territories to establish the Guidelines for Canadian Drinking Water Quality. These guidelines are established to protect the health of all Canadians for exposure over a lifetime. The guidelines are used by all provinces and territories as a basis to establish the requirements for drinking water quality in their jurisdiction, through regulations, permitting or policies. Municipalities are generally responsible for providing water to their citizens, in accordance with the requirements established by their provincial or territorial government.

12. Why is the guideline document recommending different sampling protocols?
For jurisdictions that do not currently have a corrosion control protocol in place, the random daytime (RDT) sampling protocol would be simpler and less costly to implement, and would provide information on exposure to lead from drinking water within a water supply zone. This would allow the identification of areas where exposure to lead is greater. Once this is done, and for jurisdictions that already have a corrosion control program in place, the next step would be to focus on areas where the exposure is greater, using other sampling protocols such as 30 minute stagnation (30MS) or RDT. For this step, the number of samples needed to identify issues would be much greater when using RDT than 30MS. The jurisdiction would need to determine whether they would rather use RDT (more samples, but each sample is quicker to collect) or 30MS (fewer samples, but significant time needed per sample).
Hi Joyce:
I think a Q&A explaining the difference between a first flush result (likely the works case scenario) and typical exposure is important to have included.

CDW folks;

This is just a gentle reminder to let us know if you have any comments (or questions you would like to see included) regarding the lead Qs and As we prepared, below.

If you could provide any feedback by September 9, that would be greatly appreciated. As always, a nil response is helpful to receive too.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574

----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-09-02 12:01 PM -----

From: Joyce Mortimer/HC-SC/GC/CA
To: Angelina.Polegato@novascotia.ca, Caroline.Robert@mddelcc.gov.qc.ca, Donald.Reid@gov.ab.ca, David.Fishwick@gov.bc.ca, gh somers@gov.pe.ca, Hihnder@gov.nl.ca, Kevin.Gould@gnb.ca, Kim.Phillips@gov.mb.ca, MLLeBlanc-Havard@GOV.NU.CA, Patrick.P.Brooks@gov.yk.ca, Peter_Workman@gov.nt.ca, Sam.Ferris@wsask.ca, Satish.Deshpande@ontario.ca, Kristina.Taracha/HC-SC/GC/CA/HWC
Cc: Veronique.Morisset/HC-SC/GC/CA@HWC, France.Lemieux/HC-SC/GC/CA@HWC
CDW members:

On behalf of Véronique, and as promised, here are a few Qs and As we prepared, in anticipation of the publication of the guideline technical document on lead for public consultation. We are hoping that these will be helpful for jurisdictions to address questions. If members have comments, or questions that they would like to see included, please let us know as soon as possible and we will modify the document accordingly.

(See attached file: Lead Q&As 2016-0819.docx)

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Hi Joyce,

Ontario if fine to go with the document and no comments on the QAs.

Satish

From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Sent: September 2, 2016 12:11 PM
To: hkhan@gov.nl.ca; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca; Angelina.Polegato@novascotia.ca; Caroline.Robert@mddelc.gov.qc.ca; Deshpande, Satish (MOECC); sam.ferris@wask.ca; David.Fishwick@gov.bc.ca; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; MLeBlanc-Havard@GOV.NU.CA
Subject: Reminder: CDW feedback requested - Qs and As regarding lead guideline document

CDW folks;

This is just a gentle reminder to let us know if you have any comments (or questions you would like to see included) regarding the lead Qs and As we prepared, below.

If you could provide any feedback by September 9, that would be greatly appreciated. As always, a nil response is helpful to receive too.

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
CDW members:

On behalf of Véronique, and as promised, here are a few Qs and As we prepared, in anticipation of the publication of the guideline technical document on lead for public consultation. We are hoping that these will be helpful for jurisdictions to address questions. If members have comments, or questions that they would like to see included, please let us know as soon as possible and we will modify the document accordingly.

(See attached file: Lead Q&As 2016-0819.docx)

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]  
Sent: September 2, 2016 12:11 PM  
To: hkhan@gov.nl.ca; ghomers@gov.pe.ca; Kevin.Gould@gnb.ca; Angelina.Polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Satish.Deshpande@ontario.ca; sam.ferris@wsask.ca; David.Fishwick@gov.bc.ca; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; LeBlanc-Havard, Michele  
Subject: CDW folks;  

This is just a gentle reminder to let us know if you have any comments (or questions you would like to see included) regarding the lead Qs and As we prepared, below.  

If you could provide any feedback by September 9, that would be greatly appreciated. As always, a nil response is helpful to receive too.  

Regards,  
Joyce  

Joyce Mortimer  
Coordinator of the F/P/T Committee on Drinking Water  
Water and Air Quality Bureau, Safe Environments Directorate  
Health Canada / Government of Canada  

Coordonnatrice du Comité F/P/T sur l'eau potable  
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux  
Santé Canada / Gouvernement du Canada  

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574  

Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-08-02 12:01 PM
CDW members:

On behalf of Véronique, and as promised, here are a few Qs and As we prepared, in anticipation of the publication of the guideline technical document on lead for public consultation. We are hoping that these will be helpful for jurisdictions to address questions. If members have comments, or questions that they would like to see included, please let us know as soon as possible and we will modify the document accordingly.

*(See attached file: Lead Q&As 2016-0819.docx)*

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Hi Folks:

Sorry to take so long to respond and drag this out further. As I have seen much confusion among stakeholders over which document or protocol to use for monitoring, I would suggest the following change to the first paragraph of 3.1 to make it crystal clear with something similar to the following: (now that I have said that I hope it makes sense)

3.1 Monitoring

Sampling protocols will differ, depending on the desired objective (i.e., identifying sources of lead, controlling corrosion, assessing compliance, estimating exposure to lead). As monitoring of lead at the tap can be done using different sampling protocols, it is important that the selected protocol be appropriate to meet the desired objective.

The objective of sampling protocols in this document is to monitor for typical community exposure to total lead to determine whether there are concerns about human health effects. Compliance monitoring should be conducted at the consumer's tap, with priority given to identifying homes with lead service lines, as these are likely to have the highest lead concentrations.

If the objective is to characterize whether water distributed by a water supply system is corrosive to the materials found throughout the distribution system and in household plumbing, the Guidance on Controlling Corrosion in Drinking Water Distribution Systems should be used instead.

I would also suggest that the title for 3.1.1. be tweaked to clarify the purpose. I think this is important to clarify because we are likely to see considerable variation between dwellings, and the results of this type of monitoring program will not provide certainty that any given home will not have high lead. Section 5.1.2 goes into this, however I think it should be clear here as well. Perhaps something like:

3.1.1 Monitoring to estimate typical exposure for a population by sampling at residential dwellings.

Thanks:
Dave
Hi Veronique,

We reviewed the new version of the document and I have concerns about the way the added information is presented. In fact, I think it has the side effect of making Quebec's current approach completely irrelevant, which would have a major impact on us.

I would much prefer having in section 3 a more balanced summary of the pros and cons of the various sampling protocols, recognizing that the choice of a sampling protocol must be made in accordance with the objective pursued. Indeed, sections 3.1 et 5.1 recognize that there are various possible objectives: « identifying sources of lead, controlling corrosion, assessing compliance,
estimating exposure to lead», which does not seem to be taken into consideration in section 3.1.1 and 5.1.2.

Some other comments:

- **Section 3.1.1**: The recommendation to define zones of 100,000 residents and randomly choose in each 20 residences is not coherent with previous sections of the document recommending to first identify sectors at risk of having lead service lines and monitor them. We are not in favor of keeping this proposed change. Also, no consideration seems to be given to small systems.

- **Section 3.1.2**: There is a high potential for confusion at the section presents contradictory information. At first, it recommends to sample all fountains and taps in every building. Then it indicates to prioritize the ones with lead service lines. And finally, for large buildings other than schools and daycares, it recommends to define the number of samples according to size and population of the building. We also got the same question as Kristina: why recommending to sample every tap and fountain every year? We would consider more relevant that a intensive monitoring takes place once to identify the problems, with a lighter follow-up after.

- **Section 5.1.2**: The section indicates that the objective is to choose a protocol to assess exposure without mentioning why. After, the studies are only presented as to whether or not they are representative to assess exposure, and not for their potential benefits in meeting the chosen objective.

Also, the fully flushed protocol is presented as inadequate to establish average concentration and only be giving indications on minimal exposure. In Québec, we chose this protocol as a first step, which then leads to more in-depth investigations with other protocols once a significant concentration is found. We have used this « hybrid » approach for a few years now, and we consider that it proved its usefulness. FYI, there is a paper from l'École Polytechnique de Montréal recently published in Water Research (http://www.sciencedirect.com/science/article/pii/S0043135416302470) showing (in figure 2 and 3) that using 2 ug/l in full flushed samples is similar as using 10 ug/l with other protocols.

Caroline Robert, directrice par intérim
Direction de l'eau potable et des eaux souterraines
Ministère du Développement durable, de l'Environnement, et de la Lutte contre les changements climatiques
675, René-Lévesque Est, 8e étage, boîte 42
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De : Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Envoyé : 12 Juillet 2016 14:05
À : Angelina.polegato@novascotia.ca; Robert, Caroline <Caroline.Robert@mddelcc.gouv.qc.ca>; David.Fishwick@gov.bc.ca; donald.relief@gov.ab.ca; France Lemieux <France.Lemieux@hc-sc.gc.ca>; ghsomers@gov.pe.ca; hkhan@gov.nl.ca; John Cooper <john.cooper@hc-sc.gc.ca>; Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>; Kevin.Gould@gov.nb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha <kristina.taracha@hc-sc.gc.ca>; Michele Giddings <michele.giddings@hc-sc.gc.ca>; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter.Workman@gov.nt.ca; Richard Carrier <richard.carrier@hc-sc.gc.ca>; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie.McFadyen <Stephanie.McFadyen@hc-sc.gc.ca>; Wendy Enright <wendy.enright@hc-sc.gc.ca>
Objet : CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here's a quick list of the sections with changes and the nature/reason for each of the changes:

3.1, 3.1.1, 3.1.2 -- Additional of RDT and related changes
5.1.1 -- correction of references; correction of description of MB study, as requested by Kim
5.1.2 -- addition of background information on the RDT protocol
7.1.2.6 -- New section, to provide relevant information complementary to what is in the uranium document
10.2 -- Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as requested by Satish
12.0 -- Addition of relevant references for above changes
Appendix B -- Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l’eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019

Veronique Morisset---2016-06-15 11:42:41 AM---CDW members, Following the discussion at the last meeting, and having reviewed your impact paragraph

From: Veronique Morisset/HC-SC/GC/CA
To: Angeline.polegato@novascotia.ca, Caroline.Robert@md.del.ontario.ca, donald.reid@nt.gov.ca, david.fishwick@gov.ab.ca, ghsomers@egov.pe.ca, hhh@egov.pe.ca, kevin.gould@nt.gov.ca, kim.phillips@nt.gov.ca, mlleblanc-havard@GOV.NU.CA, pat.brooks@egov.yk.ca, peter.workman@egov.nt.ca, sam.ferris@waask.ca, satish.deshpande@ontario.ca, kristina.taracha@hc-sc.gc.ca, michelle.giddings@hc-sc.gc.ca, richard.carriere@hc-sc.gc.ca, stephane.mcfadyen@hc-sc.gc.ca, vernonique.morisset@hc-sc.gc.ca, wendy.enright@hc-sc.gc.ca
Cc: France.Lemieux@HC-SC/GC/CA@HWC, John.cooper@HC-SC/GC/CA@HWC, Joyce.Mortimer@HC-SC/GC/CA@HWC, Michele.Giddings@HC-SC/GC/CA@HWC, Richard.Carriere@HC-SC/GC/CA@HWC, Stephanie.McFadyen@HC-SC/GC/CA@HWC, Véronique.Morisset@HC-SC/GC/CA@HWC, Wendy.Enright@HC-SC/GC/CA@HWC

Date: 2016-06-15 11:42 AM
Subject: CDW: Update on lead document

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer's home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Haskell, Ellen

From: Pat.Brooks@gov.yk.ca
Sent: Monday, September 12, 2016 6:51 PM
To: Joyce.Mortimer@hc-sc.gc.ca
Cc: Khan, Haseen; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca; Angelina.Polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Satish.Deshpande@ontario.ca; sam.ferris@wsask.ca; David.Fishwick@gov.bc.ca; Peter_Workman@gov.nt.ca; MLeBlanc-Havard@GOV.NU.CA
Subject: RE: Reminder: CDW feedback requested - Qs and As regarding lead guideline document

Thanks Joyce. We have no additional comments.

Regards,
Pat

Patricia Brooks
Drinking Water Program Coordinator
Environmental Health Services
# 2 Hospital Road
Whitehorse, YT
Y1A 3H8
Phone 867-667-8351 Fax 867-667-8322

Confidentiality Notice: This e-mail communication is directed solely to the intended addressee(s). If you have received this e-mail in error, please notify the author immediately by return e-mail and permanently delete this transmission from your system without making any copy.

From: Joyce Mortimer [mailto:joyce.mortimer@hc-sc.gc.ca]
Sent: September-02-16 9:11 AM
To: hkhan@gov.nl.ca; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca; Angelina.Polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Satish.Deshpande@ontario.ca; sam.ferris@wsask.ca; David.Fishwick@gov.bc.ca; Pat.Brooks<Pat.Brooks@gov.yk.ca>; Peter_Workman@gov.nt.ca; MLeBlanc-Havard@GOV.NU.CA
Subject: Reminder: CDW feedback requested - Qs and As regarding lead guideline document

CDW folks;

This is just a gentle reminder to let us know if you have any comments (or questions you would like to see included) regarding the lead Qs and As we prepared, below.

If you could provide any feedback by September 9, that would be greatly appreciated. As always, a nil response is helpful to receive too.

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada
Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574

----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-09-02 12:01 PM -----

From: Joyce Mortimer/HC-SC/GC/CA
To: Angelina.polegato@novascotia.ca, Caroline.Robert@mddeloc.gouv.qc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ghsomers@gov.pe.ca, nhkhan@gov.nt.ca, Kevin.Gould@nrb.ca, kam.phillip@gov.mb.ca, mlleblanc-hayerd@GOV.NU.CA, pat.brooks@gov.yk.ca, peter.workman@gov.nt.ca,
gam.fevrie@wsask.ca, Salish.Deshponge@ontario.ca, Kristina.Taracha@HC-SC/GC/CA@HWC
Cc: Veronique.Montisell@HC-SC/GC/CA@HWC, France.Lemieux@HC-SC/GC/CA@HWC
Date: 2016-08-22 04:19 PM
Subject: CDW: Qs and As regarding lead guideline document

CDW members:

On behalf of Véronique, and as promised, here are a few Qs and As we prepared, in anticipation of the publication of the guideline technical document on lead for public consultation. We are hoping that these will be helpful for jurisdictions to address questions. If members have comments, or questions that they would like to see included, please let us know as soon as possible and we will modify the document accordingly.

(See attached file: Lead Q&As 2016-0819.docx)

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Haskell, Ellen

From: Kristina Taracha <kristina.taracha@hc-sc.gc.ca>
Sent: Tuesday, September 13, 2016 2:39 PM
To: Fishwick, David HLTH:EX
Cc: 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca'; 'donald.reid@gov.ab.ca'; 'France.Lemieux@hc-sc.gc.ca'; 'ghsomers@gov.pe.ca'; Khan, Haseen; 'john.cooper@hc-sc.gc.ca'; 'Joyce.Mortimer@hc-sc.gc.ca'; 'Kevin.Gould@gnb.ca'; 'Kim.Philip@gov.mb.ca'; 'michele.giddings@hc-sc.gc.ca'; 'MLeBlanc-Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'richard.carrier@hc-sc.gc.ca'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'; 'Stephanie.McFadyen@hc-sc.gc.ca'; 'Veronique Morisset'; 'wendy.enright@hc-sc.gc.ca'

Subject: RE: Another version of the lead document

Dear Colleagues;

I agree with all Dave's suggestions except a suggestion to change the title of section 3.1.1 to read as: "Monitoring to estimate typical exposure for a population by sampling at residential dwellings." I think that this new title could be misleading. For instance, if we take some samples from few old houses, and the level of lead exceeds the MAC. We cannot interpret the results as a representative for the entire population. The plumbing fixtures or lead pipes may be present in old houses, but they likely be no-existent in the new housing development. I think that the current title is more general and should be kept unchanged. Maybe I am misinterpreting Dave's suggestion?? Anyhow, these are my few cents...)

Wish you all the best!

Kristina

G. Kristina Taracha , P.Eng
Manager Public Health Engineering Unit
Gestionnaire, la section du génie sanitaire
First Nations & Inuit Health Branch | Direction générale
de la santé des Premières nations et des Inuits, EPHID/IDSEP
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200 EGLANTINE DRIVEWAY, Tunney's Pasture
Ottawa, Ontario K1A 0K9
Tel.: NEW TEL. 613-323-6447
e-mail: kristina.taracha@hc-sc.gc.ca

"Fishwick, David HLTH:EX" ---2016-09-12 03:37:42 PM---Hi Folks: Sorry to take so long to respond and drag this out further. As I have seen much confusion
Hi Folks:

Sorry to take so long to respond and drag this out further. As I have seen much confusion among stakeholders over which document or protocol to use for monitoring, I would suggest the following change to the first paragraph of 3.1 to make it crystal clear with something similar to the following: (now that I have said that I hope it makes sense)

3.1 Monitoring

Sampling protocols will differ, depending on the desired objective (i.e., identifying sources of lead, controlling corrosion, assessing compliance, estimating exposure to lead). As monitoring of lead at the tap can be done using different sampling protocols, it is important that the selected protocol be appropriate to meet the desired objective.

The objective of sampling protocols in this document is to monitor for typical community exposure to total lead to determine whether there are concerns about human health effects. Compliance monitoring should be conducted at the consumer’s tap, with priority given to identifying homes with lead service lines, as these are likely to have the highest lead concentrations.

If the objective is to characterize whether water distributed by a water supply system is corrosive to the materials found throughout the distribution system and in household plumbing, the Guidance on Controlling Corrosion in Drinking Water Distribution Systems should be used instead.

I would also suggest that the title for 3.1.1. be tweaked to clarify the purpose. I think this is important to clarify because we are likely to see considerable variation between dwellings, and the results of this type of monitoring program will not provide certainty that any given home will not have high lead. Section 5.1.2 goes into this, however I think it should be clear here as well. Perhaps something like:

3.1.1 Monitoring to estimate typical exposure for a population by sampling at residential dwellings.

Thanks:

Dave
CDW Members:

Please find attached another version of the lead document, which incorporates changes to address Caroline’s comments. As we have been working with Caroline to address her comments, it should address her issues, but please let us know if you have any concerns with this version. The highlighted changes (in sections 3.1, 3.1.1, 3.1.2, 5.1.2 + addition of corresponding newly published reference) are from this latest round of edits only.

(See attached file: Lead 2016-0818 (for public consultation) ENG.pdf)

As we are still hoping to get the document posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by September 2 at the latest.

We will follow up with you next week with the draft Qs and As for lead that we had committed to doing, so please provide any specific question that you would like us to include.

Thanks.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
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veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-1929

---2016-08-03 02:33 PM---
Hi Veronique, We reviewed the new version of the document and I have concerns about the way the added

From: <Caroline.Robert@mdde.sc.gc.ca>
To: <Véronique.Morisset@hc-sc.gc.ca>
Cc: <Angeline.boleto@novascotia.ca>, <David.Fishwick@gov.ab.ca>, <donald.reid@gov.ab.ca>, <France.Lemieux@hc-sc.gc.ca>, <phsomers@gov.pe.ca>, <khanhang@gov.ni.ca>, <john.cooper@hc-sc.gc.ca>, <joyce.Mortimer@hc-sc.gc.ca>, <kevin.gould@labrador.ste.>, <Kim.Philips@gov.mb.ca>, <Kristina.taracha@hc-sc.gc.ca>, <michele.piddington@hc-sc.gc.ca>, <MLeBlanc-Harve@gov.nu.ca>, <Patricia.brooks@gov.yk.ca>, <Peter.Wortman@gov.nl.ca>, <richard.carrier@hc-sc.gc.ca>, <sam.ferris@twrsk.ca>, <Selah.Desbois@fentonARIO.ca>, <Stephane.McFadden@hc-sc.gc.ca>, <wendy.brittell@hc-sc.gc.ca>
Date: 2016-08-03 02:33 PM
Subject: RE: Updated lead document

Hi Veronique,

We reviewed the new version of the document and I have concerns about the way the added information is presented. In fact, I think it has the side effect of making Quebec's current approach completely irrelevant, which would have a major impact on us.

I would much prefer having in section 3 a more balanced summary of the pros and cons of the various sampling protocols, recognizing that the choice of a sampling protocol must be made in accordance with the objective pursued. Indeed, sections 3.1 et 5.1 recognize that there are various possible objectives: » identifying sources of lead, controlling corrosion, assessing compliance, estimating exposure to lead », which does not seem to be taken into consideration in section 3.1.1 and 5.1.2.

Some other comments:
Section 3.1.1: the recommendation to define zones of 100,000 residents and randomly choose in each 20 residences is not coherent with previous sections of the document recommending to first identify sectors at risk of having lead service lines and monitor them. We are not in favour of keeping this proposed change. Also, no consideration seems to be given to small systems.

Section 3.1.2: there is a high potential for confusion at the section presents contradictory information. At first, it recommends to sample all fountains and taps in every building. Then it indicates to prioritize the ones with lead service lines. And finally, for large buildings other than schools and daycares, it recommends to define the number of samples according to size and population of the building.

We also got the same question as Kristina: why recommending to sample every tap and fountain every year? We would consider more relevant that a intensive monitoring takes place once to identify the problems, with a lighter follow-up after.

Section 5.1.2: the section indicates that the objective is to choose a protocol to assess exposure without mentioning why. After, the studies are only presented as to whether or not they are representative to assess exposure, and not for their potential benefits in meeting the chosen objective.

Also, the fully flushed protocol is presented as inadequate to establish average concentration and only be giving indications on minimal exposure. In Québec, we chose this protocol as a first step, which then leads to more in-depth investigations with other protocols once a significant concentration is found. We have used this « hybrid » approach for a few years now, and we consider that it proved its usefulness. FYI, there is a paper from l’École Polytechnique de Montréal recently published in Water Research (http://www.sciencedirect.com/science/article/pii/S0043135416302470) showing (in figure 2 and 3) that using 2 ug/l in full flushed samples is similar as using 10 ug/l with other protocols.

Caroline Robert, directrice par intérim
Direction de l’eau potable et des eaux souterraines
Ministère du Développement durable, de l’Environnement,
et de la Lutte contre les changements climatiques
675, René-Lévesque Est, 8e étage, boîte 42
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Fax: 418-644-2003
Courriel: caroline.robert@mddelcc.gouv.qc.ca

De : Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Envoi : 12 juillet 2016 14:05
À : Angelina.olegato@novascotia.ca; Robert, Caroline <Caroline.Robert@mddelcc.gouv.qc.ca>; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; France.Lemieux <France.Lemieux@hc-sc.gc.ca>; ghomersa@gov.pe.ca; hkhan@gov.nl.ca; John.Cooker <john.cooker@hc-sc.gc.ca>; Joyce.Mortimer <Joyce.Mortimer@hc-sc.gc.ca>; Kevin.Gould@gnb.ca; Kim.Philip@ov.mb.ca; Kristina.Taracha <kristina.taracha@hc-sc.gc.ca>; Michele.Giddings <michele.giddings@hc-sc.gc.ca>; MLLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.ka.ca; Peter.Workman@gov.nt.ca; Richard.Carrier <richard.carrier@hc-sc.gc.ca>; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie.McFadyen <Stephanie.McFadyen@hc-sc.gc.ca>; Wendy.Enright <wendy.enright@hc-sc.gc.ca>
Objet : CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here’s a quick list of the sections with changes and the nature/reason for each of the changes:
3.1, 3.1.1, 3.1.2 -- Additional of RDT and related changes
5.1.1 -- correction of references; correction of description of MB study, as requested by Kim
5.1.2 -- addition of background information on the RDT protocol
7.1.2.6 -- New section, to provide relevant information complementary to what is in the uranium document
10.2 -- Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as
request by Satish

12.0 -- Addition of relevant references for above changes
Appendix B -- Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)

We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél: 613-957-1506 / cellulaire: 613-277-2019

Veronique Morisset---2016-06-15 11:42:41 AM---CDW members, Following the discussion at the last meeting, and having reviewed your impact paragraph

From: Véronique Morisset/HC-SC/GC/CA
To: Angeline.polesato@novascotia.ca, Caroline.Robert@mddelcc.gouv.qc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ghsumers@gov.pe.ca, hhgand@gov.nl.ca, Kevin.Gould@quebec.gouv.ca, Kim.Phipps@gov.mb.ca, MLeBlanc-Hayward@gov.nu.ca, pat.brooks@gov.yk.ca, Peter.Workman@gov.nt.ca, sjm.ferri@wascadi.ca, Salish.Deshpande@ontario.ca, Kristina.Taraschuk/HC-SC/GC/CA@HWC, Cc: Francine.Lamieur/HC-SC/GC/CA@HWC, John.Cooper/HC-SC/GC/CA@HWC, Joyce.Martimier/HC-SC/GC/CA@HWC, Michele.Giddings/HC-SC/GC/CA@HWC, Richard.Carrier/HC-SC/GC/CA@HWC, Stephanie.McFadyen/HC-SC/GC/CA@HWC, Veronique.Morisset/HC-SC/GC/CA@HWC, Wendy.Enngh/HC-SC/GC/CA@HWC

Subject: CDW: Update on lead document

Date: 2016-06-15 11:42 AM

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer's home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still be scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

MAE-063-2019
Haskell, Ellen

From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Friday, October 07, 2016 5:35 PM
To: Angelina.folegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca;
donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen;
Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLLeBlanc-Havard@GOV.NU.CA;
pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca;
Satish.Deshpande@ontario.ca
Cc: Anca-Maria Tugulea; Jing Chen; Kristina Taracha; philippa.cureton@canada.ca;
rocio.aranda-rodriguez@hc-sc.gc.ca; Anne Vezina; France Lemieux; John Cooper; Joyce
Mortimer; Michele Giddings; Richard Carrier; Stephanie McFadyen; Tina Brennan;
Veronique Morisset; Wendy Enright
Subject: CDW: Advance copy of Lead Water Talk
Attachments: Water Talk on lead 2016 - fra.pdf; Water Talk on lead 2016 - eng.pdf

CDW folks:

Please find attached an advance copy of the Lead Water Talk. Please restrict distribution until it is publically available on Health Canada’s web site. We expect it to be posted in a few weeks.

(See attached file: Water Talk on lead 2016 - fra.pdf)(See attached file: Water Talk on lead 2016 - eng.pdf)

Thanks!
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Hi, Kim. Yes, we can have a round table discussion under Item 4-J (Other Chemical) on Day 2 of the CDW meeting, after the morning coffee break, regarding:

What are other jurisdictions intending to require for compliance monitoring re: lead in drinking water; and what actions are they intending to take where monitoring identifies an exceedance of the guideline.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
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"Philip, Kim (SD)" ---2016-10-11 10:48:00 AM---Manitoba sent the attached e-mail to all public water system owners advising them that the national

From: "Philip, Kim (SD)" <Kim.Philip@gov.mb.ca>
To: Veronique Morisset <Veronique.Morisset@hc-sc.gc.ca>
Cc: "Angelina polegato@novascotia.ca" <Angelina.polegato@novascotia.ca>, "Caroline Robert@mddelc.gouv.qc.ca" <Caroline.Robert@mddelcc.gouv.qc.ca>, "donald.reid@gov.ab.ca" <donald.reid@gov.ab.ca>, "David.Fishwick@gov.bc.ca" <David.Fishwick@gov.bc.ca>, "ghsomers@gov.pe.ca" <ghsomers@gov.pe.ca>, "hkhani@gov.ni.ca" <hkhani@gov.ni.ca>, "Kevin.Gould@gov.ni.ca" <Kevin.Gould@gov.ni.ca>, "MLEBlanc-Havard@GOV.NU.CA" <MLEBlanc-Havard@GOV.NU.CA>, "pat.brooks@gov.yk.ca" <pat.brooks@gov.yk.ca>, "Peter_Workman@gov.nt.ca" <Peter_Workman@gov.nt.ca>, "Satish.Deshpande@ontario.ca" <Satish.Deshpande@ontario.ca>
Subject: RE: Quick question to CDW members

Manitoba sent the attached e-mail to all public water system owners advising them that the national guideline was under review, though not specifically that it was being lowered. The e-mail was also sent to engineering consulting firms that we work with routinely.
As per the e-mail, our intent is to put out a draft provincial monitoring protocol for comment on or around the same time the draft national guideline is posted. We haven’t yet finalized the draft-for-comment protocol. I would be very interested to hear what other jurisdictions are intending to require for compliance monitoring; and what actions they are intending to take where monitoring identifies an exceedance. Wondering if there would be time to do a round-table on this topic at the upcoming meeting?

Like Sam, we do not think that there are many communities that have lead service lines in Manitoba as most rural water systems were developed after the use of LSLs had tapered off. We have already completed a broad mail-out direct-to-users in older higher risk areas of the one Manitoba community that had been previously identified as a concern. Though we expect there will likely be some other communities-of-concern identified once we implement the monitoring requirements, our biggest impact is expected to be the monitoring itself.

Kim Philip
Haskell, Ellen

From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Friday, October 21, 2016 5:42 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Anca-Maria Tugulea; Jing Chen; Kristina Taracha; philippa.cureton@canada.ca; rocio.aranda-rodriguez@hc-sc.gc.ca
Cc: WQH Management
Subject: CDW: "Water Talk" re: lead is now posted on HC web site

CDW folks:

"Water Talk: Reducing your Exposure to Lead from Drinking Water" is now posted on Health Canada’s web site at the following links:

English:

French:

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Haskell, Ellen

From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Tuesday, November 01, 2016 3:06 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca
Cc: Veronique Morisset; France Lemieux; Kristina Taracha
Subject: CDW: Fw: CWN Lead Issues Webinar September 28 - Recording and Slides

CDW folks:

For those of you who were unable to attend the CWN webinar on lead that was held September 28, 2016, please find below the slides and a recording of the webinar.

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-11-01 01:25 PM -----

From: Kaitlin Edwards <k.edwards@cwn-rce.ca>
To: undisclosed-recipients:; Kaitlin Edwards <k.edwards@cwn-rce.ca>
Date: 2016-10-31 01:47 PM
Subject: Lead Issues Webinar: September 28 Webinar Recording and Slides

Good afternoon,

On behalf of Canadian Water Network, Polytechnique Montréal, University of Dalhousie and University of Toronto, thank you for your interest in the September 28th webinar entitled, “Challenges related to the management of lead service lines, partial lead service line replacements, and lead occurrence in the tap water of large buildings in Canada” with presenters Dr. Michèle Prévost, Dr. Élise Deshommès and Dr. Graham Gagnon. It was a wonderful success.

You can find the recording along with the slides to the webinar, on the Canadian Water Network website.

To stay informed with future CWN activities, please subscribe to our website for updates!
Haskell, Ellen

From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Friday, November 25, 2016 11:59 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLleBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: Veronique Morisset; France Lemieux
Subject: CDW: Qs and As on lead in drinking water - Please use these versions
Attachments: Lead QAs 2016-1125 Final.pdf; Lead QAs 2016-1125 FRA.pdf

CDW folks:

Please find below both the French and English versions of the Qs and As for lead in Canadian drinking water. We have corrected an error in the English Qs and As sent previously, and we have re-attached the corrected file, so please use this version instead.

(See attached file: Lead QAs 2016-1125 Final.pdf)(See attached file: Lead QAs 2016-1125 FRA.pdf)

Regards,
Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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----- Forwarded by Joyce Mortimer/HC-SC/GC/CA on 2016-11-24 08:43 AM -----

From: Joyce Mortimer/HC-SC/GC/CA
To: Angelina.polegato@novascotia.ca, Caroline.Robert@mddelcc.gouv.qc.ca, donald.reid@gov.ab.ca, David.Fishwick@gov.bc.ca, ghsomers@gov.pe.ca, khans@gov.nl.ca, Kevin.Gould@gnb.ca, Kim.Philip@gov.mb.ca, MLleBlanc-Havard@GOV.NU.CA, pat.brooks@gov.yk.ca, Peter.Workman@gov.nt.ca, sam.ferris@wsask.ca, Satish.Deshpande@ontario.ca, Kristina.Taracha@HC-SC/GC/CA@HWC
Cc: Veronique Morisset/HC-SC/GC/CA@HWC, France.Lemieux/HC-SC/GC/CA@HWC
Date: 2016-11-23 03:08 PM
Subject: CDW: Final Qs and As for lead in Canadian drinking water

CDW folks;

As a follow up to the Qs and As on lead in Canadian drinking water that were sent to you in August for your comment, here are the final Qs and As. This finalized version includes changes made in response to the comments that we received from CDW members.
At this time, we expect the guideline technical document for lead in drinking water to be posted for public consultation on November 29, 2016. I will let you know if that date changes.

Regards,
Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
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Potential copyright material

If you wish to obtain a copy please contact the ATIPP Office at (709) 729-7072 or atippoffice@gov.nl.ca.
From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Monday, November 28, 2016 4:08 PM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca;
donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen;
Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA;
pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca;
Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: France Lemieux; Veronique Morisset
Subject: CDW: Revised timeline for posting of lead guideline technical document

CDW folks:

Due to an unexpected issue that has arisen, the posting of the lead GTD for public consultation will be delayed by a week. The revised expected date is December 6. I will let you know if there are any more changes.

Apologies for this, and thanks for your understanding.

Joyce

Joyce Mortimer
Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Haskell, Ellen

From: Joyce Mortimer <Joyce.Mortimer@hc-sc.gc.ca>
Sent: Wednesday, November 30, 2016 12:50 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca; David.Fishwick@gov.bc.ca; ghsmers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: WQH Management
Subject: CDW: Request for impact paragraphs for copper document
Attachments: Copper 2016-1130 (For consultation) tracked.pdf

CDW members,

The guideline technical document for copper in drinking water was approved at the October 2016 meeting for public consultation. The version that you approved, with the minor changes that you requested at the October meeting, is attached below (with changes tracked) for your information. All relevant CDW comments have been addressed except for blue hair, as we have been unable to find any literature reports related to the effects of copper on hair (dye blue/green).

*(See attached file: Copper 2016-1130 (For consultation) tracked.pdf)*

Please send us your impact paragraph to add into the consultation document (or a nil response) by January 10, 2017.

Thank you!

Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water (until December 9, 2016!)
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
Haskell, Ellen

From: Caroline.Robert@mddelcc.gouv.qc.ca
Sent: Wednesday, December 07, 2016 5:05 PM
To: donald.reid@gov.ab.ca; Joyce.Mortimer@hc-sc.gc.ca; angelina.polegato@novascotia.ca; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; kristina.taracha@hc-sc.gc.ca
Cc: Veronique.Morisset@hc-sc.gc.ca; France.Lemieux@hc-sc.gc.ca
Subject: Re: Posting of lead guideline technical document is delayed

I agree with Donald.

Caroline

Envoyé de mon smartphone BlackBerry 10 sur le réseau TELUS.

De: Donald Reid
Envoyé: mercredi 7 décembre 2016 3:17 PM
À: 'Joyce Mortimer'; angelina.polegato@novascotia.ca; Robert, Caroline; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; hkhani@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter.Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina.Taracha
Cc: Veronique.Morisset; France.Lemieux
Objet: RE: Posting of lead guideline technical document is delayed

Thanks Joyce

This is really very unhelpful – we keep tee-ing up folks to get ready and then don’t follow through; undermines credibility in process, institutions and individuals.

Donald

From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Sent: December 7, 2016 1:06 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; Donald.Reid; David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; hkhani@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter.Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Kristina.Taracha
Cc: Veronique Morisset; France Lemieux
Subject: CDW: Posting of lead guideline technical document is delayed

CDW folks:

The posting of the lead guideline technical document for public consultation has been delayed. I will let you know as soon as we have a revised expected posting date.

Once again, my apologies and thank you for your patience.

Joyce
Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l'eau potable
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Anne,

As per Joyce's email. Thanks.

Haseen

From: Joyce Mortimer [mailto:Joyce.Mortimer@hc-sc.gc.ca]
Sent: Wednesday, November 30, 2016 12:50 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; donald.reid@gov.ab.ca;
David.Fishwick@gov.bc.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gmb.ca; Kim.Philip@gov.mb.ca; MLeBlanc-
Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca;
Satish.Deshpande@ontario.ca; Kristina Taracha
Cc: WQH Management
Subject: CDW: Request for impact paragraphs for copper document

CDW members,

The guideline technical document for copper in drinking water was approved at the October 2016 meeting for public
consultation. The version that you approved, with the minor changes that you requested at the October meeting, is
attached below (with changes tracked) for your information. All relevant CDW comments have been addressed except for
blue hair, as we have been unable to find any literature reports related to the effects of copper on hair (dye blue/green).

(See attached file: Copper 2016-1130 (For consultation) tracked.pdf)

Please send us your impact paragraph to add into the consultation document (or a nil response) by January 10, 2017.

Thank you!

Joyce

Joyce Mortimer

Coordinator of the F/P/T Committee on Drinking Water (until December 9, 2016!)
Water and Air Quality Bureau, Safe Environments Directorate
Health Canada / Government of Canada

Coordonnatrice du Comité F/P/T sur l’eau potable
Bureau de la qualité de l’eau et de l’air, Direction de la sécurité des milieux
Santé Canada / Gouvernement du Canada

Joyce.mortimer@hc-sc.gc.ca / Tel: (613)-957-3130 / Fax: (613)-952-2574
## Impact Statement

<table>
<thead>
<tr>
<th>Province</th>
<th>Newfoundland and Labrador</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter</td>
<td>Copper</td>
</tr>
<tr>
<td>Monitoring</td>
<td>The Province of Newfoundland and Labrador is responsible for extensive monitoring for inorganic parameters including copper in the province. Copper monitoring is conducted semi-annually for all public water supplies in the province, and quarterly for populations larger than 5,000. pH is also included in the extensive monitoring program conducted in the province. pH in the province is typically low and below the guidelines of 6.5-8.5. There are typically greater than 300 pH exceedances in the province annually. As discussed in the technical document, the low pH in the province causes issues with corrosion and can affect the copper concentration levels in drinking water.</td>
</tr>
<tr>
<td>Cost of Implementing Guideline</td>
<td>There are 4 communities that may not meet the new proposed MAC of 2.0mg/L. There are currently 16 communities that exceed the existing AO of 1.0mg/L on occasion. There could be a moderate cost of implementing the proposed guideline for copper in Newfoundland and Labrador. Due to naturally low pH issues experienced by many water systems in the province, prevention of corrosion in household plumbing will require some communities to install pH adjustment systems or upgrade their existing pH adjustment systems to maintain appropriate pH levels within the distribution system. Water pH in some communities is so low, that even with treatment, it would be difficult to dose enough chemical to meet both pH and copper guidelines. Due to this, new treatment systems and/or significant upgrades may be required to a number of existing systems.</td>
</tr>
<tr>
<td>Other Comments</td>
<td>There are 4 communities that may not meet the new proposed MAC of 2.0mg/L. There are currently 16 communities that exceed the existing AO of 1.0mg/L on occasion.</td>
</tr>
<tr>
<td>Action Items</td>
<td>Continue to monitor for copper and pH at the current frequency. Continue to assist communities in ensuring their pH adjustment systems are working effectively to increase pH levels and keep corrosion control measures in place.</td>
</tr>
</tbody>
</table>
Haskell, Ellen

From: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Sent: Monday, January 09, 2017 2:52 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca;
    David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca;
    ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca;
    pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-
    Havard@GOV.NU.CA
Cc: John Cooper; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux;
    Veronique Morisset; Tina Brennan; Julie Bourdon-Lacombe; Joyce Mortimer; Richard
    Charron
Subject: Lead - consultation document to be posted this week

CDW members,

For your information, the Guideline Technical Document on lead in drinking water got internal approval for posting for
public consultation. Posting date is expected to be Wednesday of this week, January 11th. We have been assured it
should not be delayed this time around but if it does we will let you know as soon as we can.

Thank you,
Anne

 Anne Vézina
 Coordinator of the F/P/T Committee on Drinking Water
 Coordonatrice du Comité F/P/T sur l'eau potable
 Water and Air Quality Bureau
 Bureau de la qualité de l'eau et de l'air
 Safe Environments Directorate
 Direction de la sécurité des milieux
 Health Canada
 Santé Canada
 Ottawa
 Tel.: (613) 957-3130
 Fax: (613) 952-2574
My Black Dog and I have given up all hope so will believe it when I see the final Guideline published...

Super! I’m crossing my fingers, as I think this will help us immensely in moving forward here.
Brennan; Julie Bourdon-Lacombe; Joyce Mortimer; Richard Charron
Subject: Lead - consultation document to be posted this week

CDW members,

For your information, the Guideline Technical Document on lead in drinking water got internal approval for posting for public consultation. Posting date is expected to be **Wednesday of this week, January 11th**. We have been assured it should not be delayed this time around but if it does we will let you know as soon as we can.

Thank you,
Anne

Anne Vézina  
Coordinator of the F/P/T Committee on Drinking Water  
Coordonnatrice du Comité F/P/T sur l'eau potable  
Water and Air Quality Bureau  
Bureau de la qualité de l'eau et de l'air  
Safe Environments Directorate  
Direction de la sécurité des milieux  
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Haskell, Ellen

From: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Sent: Wednesday, January 11, 2017 1:07 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-Havard@GOV.NU.CA
Cc: John Cooper; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Tina Brennan; Joyce Mortimer; Julie Bourdon-Lacombe; Richard Charron; Kristina Taracha

Subject: Guideline Technical Document for lead in drinking water - now posted for public comment!

CDW folks,

The Guideline Technical Document for lead in drinking water is now posted for a 2-month public comment period ending March 15 2017:


Please make sure your folks know and have a chance to review it!

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Haskell, Ellen

From: Khan, Haseen
Sent: Thursday, April 20, 2017 12:00 PM
To: 'Anne Vezina'; angelina.polegato@novascotia.ca; Caroline.Robert@mdlcc.gouv.qc.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-Havard@GOV.NU.CA
Cc: John Cooper; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Tina Brennan; Wendy Enright; Erin Ducharme
Subject: RE: Provincial Approaches In Preparing for the New Lead Guideline

Please note NL response. Thanks.

1) What is the province’s policy on lead? Is it part of its current routine chemical sampling?
The Province of Newfoundland and Labrador has an established Drinking Water Monitoring Program that ensures inorganic and disinfections by-products are sampled regular for each public water supply in the province. The sampling of lead is included in the program using the same protocol as all other inorganic parameters.

2) What is the province’s routine sampling protocol for distribution systems?
The Province’s sampling protocol applies to inorganics and disinfection byproducts. The protocol is designed to monitor the water quality within the distribution system and is collected from private homes, commercial buildings or public buildings. Tap water is flushed for a minimum of 5 minutes depending on the size of the building. The sampling protocol is defined in the Drinking Water Quality Monitoring Manual available the Department’s webpage: http://www.ecc.gov.nl.ca/waterres/quality/drinkingwater/pdf/dwq_manual.pdf

3) Is there a policy on monitoring lead in individual homes? If so, what is the frequency of sampling? Is it on request of the homeowner?
The Province does not have a specific policy on monitoring lead in individual homes. The Department would recommend the use of Lead in Drinking Water – Monitoring (Draft) from Health Canada in designing lead monitoring programs.

4) Is there any sampling protocol for individual homes? If so, who pays for what? Is it subsidised, or does the homeowner pay?
Sampling of individual homes for lead would be the responsibility of the Town or the individual home owner. The Department would recommend the use of Lead in Drinking Water – Monitoring (Draft) from Health Canada in designing lead monitoring programs.

5) Has the province developed any risk communication materials? If so, could we have a copy or a link to related resources?
The Province has developed a fact sheet specific to lead which is available at: http://www.health.gov.nl.ca/health/publichealth/envhealth/lead2009.pdf.

6) Are there any approaches or resources that may be of assistance to FNIB in its development of policy options?
N/A
From: Anne Vezina [mailto:anne.vezina@hc-sc.gc.ca]
Sent: Thursday, April 06, 2017 4:34 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddeicc.gouv.qc.ca; David.Fishwick@gov.bc.ca;
donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca;
Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-
Havard@GOV.NU.CA
Cc: John Cooper; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Tina
Brennan; Wendy Enright; Erin Ducharme
Subject: Fw: Provincial Approaches In Preparing for the New Lead Guideline

CDW folks,

Our colleague Erin Ducharme from FNIHB (working with Kristina Taracha) would need your P/T input on the questions on
lead below.

Could you please get back to Erin by early May?

Thank you all in advance,

Anne
Hi Anne,

My name is Erin Ducharme, and I work with the Drinking Water Program within the First Nations & Inuit Health Branch. Kristina Taracha suggested that I contact you for assistance in obtaining some guidance from the provinces on how they are preparing for the new lead guideline.

We are in the midst of developing some policy options for monitoring lead in individual homes in FN communities. In order to assist with this, we would like pose the following questions to the F/P/T Committee on Drinking Water:

1) What is the province’s policy on lead? Is it part of its current routine chemical sampling?

2) What is the province’s routine sampling protocol for distribution systems?

3) Is there a policy on monitoring lead in individual homes? If so, what is the frequency of sampling? Is it on request of the homeowner?

4) Is there any sampling protocol for individual homes? If so, who pays for what? Is it subsidised, or does the homeowner pay?

5) Has the province developed any risk communication materials? If so, could we have a copy or a link to related resources?

6) Are there any approaches or resources that may be of assistance to FNIHB in its development of policy options?

If you could please advise as to the most appropriate approach to providing these questions to the F/P/T Committee on Drinking Water, it would be greatly appreciated. Ideally we would like to receive responses by the beginning of May.

If you should have any questions, please feel free to contact me.

Thank you, and have a good day!

Erin Ducharme

Environmental Public Health Division, First Nations and Inuit Health Branch
Health Canada / Government of Canada
erin.ducharme@hc-sc.gc.ca / Tel: 613-878-3527

Division de la santé environnementale, Direction générale de la santé des Premières nations et des Inuits
Santé Canada / Gouvernement du Canada
erin.ducharme@hc-sc.gc.ca / Tél.: 613-878-3527
Haskell, Ellen

From: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Sent: Wednesday, August 02, 2017 4:41 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-Havard@GOV.NU.CA
Cc: Greg Carreau; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Wendy Enright; Jelena Zuric; Anca-Maria Tugulea; Rocio Aranda-Rodriguez; kristina.taracha@hc-sc.gc.ca; Philippa.cureton@canada.ca
Subject: Upcoming CDW meeting - session on lead

CDW folks,

The upcoming CDW meeting will be held November 7, 8 and 9 (don't forget, this time it will be Tuesday, Wednesday and Thursday). As discussed at the last meeting, we are planning a morning session on lead for the Thursday morning and would like to know if you could present on your jurisdiction's perspective to implement the guideline for lead. I am hoping to have at least 2 or 3 members' presentations and a following plenary discussion. Of course, the post-consultation guideline technical document will be discussed and up for approval as well.

Let me know if there are any other issues with lead you would like to discuss during that morning session.

Cheers,

Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Haskell, Ellen

From: Philip, Kim (SD) <Kim.Philip@gov.mb.ca>
Sent: Wednesday, August 10, 2016 5:41 PM
To: France Lemieux; Fishwick, David HLTH:EX
Cc: 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca';
'donald.reid@gov.ab.ca'; 'ghsomers@gov.pe.ca'; Khan, Haseen; 'John Cooper'; 'Joyce
Mortimer'; 'Kevin.Gould@gnb.ca'; 'Kristina Taracha'; 'Michele Giddings'; 'MLeBlanc-
Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca'; 'Peter_Workman@gov.nt.ca'; 'Richard
Carrier'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'; 'Stephanie McFadyen';
'Veronique Morisset'; 'Wendy Enright'
Subject: RE: Updated lead document

Could the schools not collect one 250 mL sample rather than two 125 mL samples? Is there significant additional benefit from averaging two sample results?

Kim Philip

From: France Lemieux [mailto:France.Lemieux@hc-sc.gc.ca]
Sent: July-27-16 12:11 PM
To: Fishwick, David HLTH:EX
Cc: 'Angelina.polegato@novascotia.ca'; 'Caroline.Robert@mddelcc.gouv.qc.ca'; 'donald.reid@gov.ab.ca';
'ghsomers@gov.pe.ca'; 'hkhan@gov.nl.ca'; 'John Cooper'; 'Joyce Mortimer'; 'Kevin.Gould@gnb.ca'; Philip, Kim
(SD); 'Kristina Taracha'; 'Michele Giddings'; 'MLeBlanc-Havard@GOV.NU.CA'; 'pat.brooks@gov.yk.ca';
'Peter_Workman@gov.nt.ca'; 'Richard Carrier'; 'sam.ferris@wsask.ca'; 'Satish.Deshpande@ontario.ca'; 'Stephanie
McFadyen'; 'Veronique Morisset'; 'Wendy Enright'
Subject: RE: Updated lead document

Hello David,

The volumes differ because generally in schools, the highest concentrations correspond to the fountain and its immediate connecting piping, which is typically captured in the first 250mL of a sample.

Regards,

France

France Lemieux, M. Eng.

Head, Materials and Treatment Section/Healthy Environments and Consumer Safety Branch
Health Canada/Government of Canada

France.Lemieux@hc-sc.gc.ca/Tel.: 613-941-3166

Chef, Section des produits et du traitement/Direction générale de la santé environnementale et de la sécurité des consommateurs
Santé Canada/Gouvernement du Canada
Hi Veronique:

I have a question about the revised monitoring section in this (sections 3.1.1, and 3.1.2) When giving advice on random daytime sampling in Section 3.1.1. It advises taking a 1L sample for residential dwellings, however for schools and large buildings in 3.1.2, it advises taking two 125ml samples (presumably consecutive) and averaging the results. Is there a reason why these volumes are different?

Dave

From: Veronique Morisset [mailto:Veronique.Morisset@hc-sc.gc.ca]
Sent: Tuesday, July 12, 2016 11:05 AM
To: Angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gov.qc.ca; Fishwick, David HLTH:EX; donald.reid@gov.ab.ca; France Lemieux; ghosomers@gov.pe.ca; thkhan@gov.nl.ca; John Cooper; Joyce Mortimer; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; Kristina Taracha; Michele Giddings; MLBlanc-Havard@GOV.NU.CA; pat.brooks@gov.yk.ca; Peter_Workman@gov.nl.ca; Richard Carrier; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; Stephanie Mcfadyen; Wendy Enright
Subject: CDW: Updated lead document

CDW members,

As per my June 15 e-mail, we have now made changes to the lead document to incorporate the random daytime (RDT) sampling protocol as an option for residential sampling. This has also resulted in changes to section 5.1.2, to provide additional information on the RDT protocol. The attached file highlights all content changes made since November 2015, which is the last version that you saw.

Here’s a quick list of the sections with changes and the nature/reason for each of the changes:

3.1, 3.1.1, 3.1.2 – Additional of RDT and related changes
5.1.1 – correction of references; correction of description of MB study, as requested by Kim
5.1.2 – addition of background information on the RDT protocol
7.1.2.6 – New section, to provide relevant information complementary to what is in the uranium document
10.2 – Clarification of description of Healey et al. 2010, to amend wording that could have been misinterpreted, as requested by Satish
12.0 – Addition of relevant references for above changes
Appendix B – Incorporation of provincial and territorial anticipated impacts, as provided by members

(See attached file: Lead 2016-0712 compared to Nov 2015.pdf)
We are looking for an indication from members that the revisions are acceptable and do not affect the approval of the document. As we are still expecting the document to be posted for public consultation prior to the next CDW meeting, an early response would be appreciated. We are looking for a response from all members by Aug 10 at the latest.

Thanks

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019

CDW members,

Following the discussion at the last meeting, and having reviewed your impact paragraphs, we have been working on a path forward to reduce the burden of implementing the lead guideline. As the guideline must be compared to levels measured at the tap to be meaningful, the only flexibility that we have would be on the sampling protocol. Section 3.1.1 of the document currently focuses on a residential sampling protocol of a 5 minute flush, followed by a 30 minute stagnation and then collecting a 2 L sample of water in the consumer's home, while recommending a random daytime approach in section 3.1.2 for larger buildings. We are now working on a more practical approach that would be still scientifically rigorous but reduce the burden on jurisdictions by incorporating a random daytime sampling protocol for residences. This will likely have an impact on the number and size of samples recommended. We are planning to modify some sections of the document and circulate it to you in late June/early July.

Please let us know if you have any concerns with this approach.

Véronique

Véronique Morisset
Manager, Water Quality Program Division
Healthy Environments and Consumer Safety / Health Canada / Government of Canada
veronique.morisset@hc-sc.gc.ca / tel: 613-957-1506 / cel: 613-277-2019

Gestionnaire, Division du programme de la qualité de l'eau
Santé environnementale et sécurité des consommateurs / Santé Canada / Gouvernement du Canada
veronique.morisset@hc-sc.gc.ca / tél : 613-957-1506 / cellulaire : 613-277-2019
Good morning Anne

Alberta hopes to have some information to present on some projects starting here – can we book about 20 minutes for Alberta’s presentation?

Thanks

Donald

From: Anne Vezina [mailto:anne.vezina@hc-sc.gc.ca]
Sent: Wednesday, August 02, 2017 1:11 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; David.Fishwick@gov.bc.ca; Donald Reid; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; hkhan@gov.nl.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-Havard@GOV.NU.CA
Cc: Greg Carreau; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Wendy Enright; Jelena Zuric; Anca-Maria Tugulea; Rocio Aranda-Rodriguez; kristina.taracha@hc-sc.gc.ca; Philippa.cureton@canada.ca; Debra Mooney; Jon Elliott
Subject: Upcoming CDW meeting - session on lead

CDW folks,

The upcoming CDW meeting will be held November 7, 8 and 9 (don’t forget, this time it will be Tuesday, Wednesday and Thursday). As discussed at the last meeting, we are planning a morning session on lead for the Thursday morning and would like to know if you could present on your jurisdiction’s perspective to implement the guideline for lead. I am hoping to have at least 2 or 3 members’ presentations and a following plenary discussion. Of course, the post-consultation guideline technical document will be discussed and up for approval as well.

Let me know if there are any other issues with lead you would like to discuss during that morning session.

Cheers,

Anne

Anne Vézina  
Coordinator of the F/P/T Committee on Drinking Water  
Coordonnatrice du Comité F/P/T sur l'eau potable  
Water and Air Quality Bureau  
Bureau de la qualité de l'eau et de l'air
Haskell, Ellen

From: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Sent: Friday, September 15, 2017 1:48 PM
To: angelina.polegato@novascotia.ca; Caroline.Robert@mddelcc.gouv.qc.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; Peter_Workman@gov.nt.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; pat.brooks@gov.yk.ca; sam.ferris@wsask.ca; Satish.Deshpande@ontario.ca; MLeBlanc-Havard@GOV.NU.CA
Cc: Greg Carreau; Michele Giddings; Stephanie McFadyen; Richard Carrier; France Lemieux; Veronique Morisset; Wendy Enright; Jelena Zuric; Richard Charron; kristina.taracha@hc-sc.gc.ca; Anca-Maria Tugulea; Rocio Aranda-Rodriguez
Subject: Revised document on lead
Attachments: Lead 2017-0915 (for final approval) tracked changes from consultation.pdf; LEAD Comments Table 2017-0915.CDW.pdf

CDW members and Secretariat,

As promised at the last CDW meeting, we are sending the post-consultation document on lead in drinking water ahead of the agenda package for the meeting to give you extra time for review. Attached is the revised document, with all changes made since public consultation highlighted. As a reminder, most changes made to section 10.2 have already been shared at the last CDW meeting and discussed but are still highlighted since they were made after the consultation period.
(See attached file: Lead 2017-0915 (for final approval) tracked changes from consultation.pdf)

Also, please find attached the table of comments and responses from public consultation.
(See attached file: LEAD Comments Table 2017-0915.CDW.pdf)

It would be appreciated if you could send your comments in advance, if you have any, so we can have an informed discussion at the meeting and hopefully get the final CDW approval.

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
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Fax: (613) 952-2574

MAE-063-2019 196
Potential copyright material

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Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Monday, March 26, 2018 2:45 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Zuric, Jelena (HC/SC)
Subject: FW: Drinking Water and Health in An Era of Aging Distribution Infrastructure
Attachments: Feb24final.docx

Please note: the referenced attachment is available online at this link https://www.researchgate.net/publication/326604531_Drinking_Water_and_Public_Health_in_an_Era_of_Aging_Distribution_Infrastructure

CDW members,

For your information, attached is a white paper from Martin J. Allen et al. (2018): Drinking Water and Health in An Era of Aging Distribution Infrastructure, forwarded to me by Donald (see his email below).

Enjoy!
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
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Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

From: Donald Reid [mailto:donald.reid@gov.ab.ca]
Sent: 2018-03-21 11:38 AM
To: Vezina, Anne (HC/SC)
Cc: Morisset, Veronique (HC/SC)
Subject: FW: Drinking Water and Health in An Era of Aging Distribution Infrastructure

Good morning Anne

Marty has asked me to pass this along to the other CDW reps. As is our custom and practice I’m proceeding through the secretariat to undertake this request and am happy to intimate that I would support Marty’s request. He is hoping to present this at the CWWA meeting in Montreal and while some member will not be able to attend the CWWA meeting (I believe there is [another] date clash with CDW), having sight and understanding of the arguments will, I believe, be of interest to colleagues. Can you pass this along?
Happy to discuss

Best regards

Donald

From: Martin Allen [mailto:]
Sent: Friday, March 16, 2018 9:26 AM
To: rhaller@cwwa.ca; Stephanie McFadyen; Donald Reid
Subject: Drinking Water and Health in An Era of Aging Distribution Infrastructure

Greetings to you: My co-authors and I are pleased to provide you with our "White Paper" - Drinking Water and Health in An Era of Aging Distribution Infrastructure. Together we have more than 140 years experience in drinking water research and our paper is intended to summarize what research has shown for a pathway to provide safe, sustainable, and reliable drinking water to consumers. Our hope is that this cumulative knowledge will be used to implement the recommendations presented in this paper.

We are exploring where this paper might be best published to attract the interest of drinking water stakeholders. Until then we wanted to share this paper with our Canadian colleagues and their members.

All the best.

Martin J. Allen, PhD

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Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, October 25, 2018 2:07 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca)
Cc: Redhead, Xavier (HC/SC); Aranda-Rodriguez, Rocio (HC/SC); Tugulea, Anca-Maria (HC/SC); Cureton, Philippa (EC); Chebekoue, Sandrine (HC/SC); Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Sultan, Yasir (HC/SC)
Subject: Copper - compare doc
Attachments: Cdw2018-11 Copper (compare public consult - final).pdf

CDW folks and Secretariat,

Attached is the version of copper with changes highlighted since public consultation. It should make it easier for you to review.
Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Potential copyright material

If you wish to obtain a copy please contact the ATIPP Office at (709) 729-7072 or atipoffice@gov.nl.ca.
Hi Pat.
This Health Canada document may be very helpful if you are looking for advice on how to develop a sampling program with the intent of locating from where the lead might be originating.


In terms of protocols in how to deal with exceedances directly, I don’t think NB has any document. NB undertook a fairly large lead in school initiative a few years ago and I believe for any fountains, taps, etc that were used by students that high lead levels, they were either turned off or regularly flushed. It depended on the originating source and cause of led exceedances. This was a very precautionary approach I feel. Let me know if you’d like to talk further.

Kevin Gould, P.Eng.
Public Health Engineer
Healthy Environments Branch
Department of Environment and Local Government
Tel: (506) 444-4096

Hi Everyone,

If any of you have a protocol that would be helpful for dealing with lead exceedances in drinking water in schools that you can forward on, it would be very much appreciated.

Regards.
Pat

Patricia Brooks
Drinking Water Program Coordinator
Hi Pat:

This may fit the bill:

Dave

---

Hi Everyone,

If any of you have a protocol that would be helpful for dealing with lead exceedances in drinking water in schools that you can forward on, it would be very much appreciated.

Regards.
Pat

Patricia Brooks
Drinking Water Program Coordinator
Environmental Health Services
# 2 Hospital Road
Whitehorse, YT
Y1A 3H8
Phone 867-667-8351 Fax 867-667-8322

This e-mail and its attachments are confidential and is intended solely for the intended addressee(s). The content of this e-mail is protected under the Access to Information and Protection of Privacy Act and/or the Health Information Privacy and Management Act, and must be protected, disclosed, collected, and used in accordance with these Acts. If you have received this e-mail in error, please notify the author immediately and permanently destroy this transmission. Disclosing, copying, distributing or taking any action regarding the contents of this transmission is strictly prohibited.
Good Morning Pat;

Current Status:
Grade schools and post-secondary institutes undergo regular bacteriological testing but chemical water testing is not normal practice. This would be the responsibility of the school/school board. NL utilizes the Health Canada Guideline Technical Document: Lead for sampling protocol for the evaluation of lead exposure.

History of school sampling/lead exceedances in NL:
The province of NL conducted a study on water quality of schools in 2001-2002. This study was based on water supplies that were owned by the schools and did not include any schools that were on municipal water supplies. These samples were classed as source water samples as they were tested before any treatment and before entering the school’s plumbing system. During this study 2 lead exceedances were identified. Lead exceedances were thought to be caused by plumbing between the well and the sampling point. Resampling of one sample allowed for a longer flushing time rectified this situation which confirms the conclusion that the lead is not a natural occurring contaminant of the well.

In the Fall of 2016, Memorial University’s St. John’s campus identified lead exceedances in a number of their facilities. Prior to this sampling, water quality sampling for chemical parameters was not regularly scheduled. The University put the St. John’s campus on non-consumption to ensure the safety of their students and staff. An extensive sampling program was developed using lead sampling protocols based on Health Canada’s recommendations. Once determined which buildings and/or areas had issues with lead exceedances various corrective measure were implemented: lead removal filtration systems, provision of bottled water and removal of tap/water fountain. As a result of this incident, the University developed a Drinking Water Quality Guide (attached) to ensure an adequate supply of safe drinking water for all campuses.

I trust this is helpful.

Haseen Khan, P.Eng.
Director
Water Resources Management Division
Department of Municipal Affairs and Environment
4th Floor, Confederation Building West Block
PO Box 8700
Hi Everyone,

If any of you have a protocol that would be helpful for dealing with lead exceedances in drinking water in schools that you can forward on, it would be very much appreciated.

Regards,
Pat

Patricia Brooks
Drinking Water Program Coordinator
Environmental Health Services
# 2 Hospital Road
Whitehorse, YT
Y1A 3H8
Phone 867-667-8351 Fax 867-667-8322

This e-mail and its attachments are confidential and is intended solely for the intended addressee(s). The content of this e-mail is protected under the Access to Information and Protection of Privacy Act and/or the Health Information Privacy and Management Act, and must be protected, disclosed, collected, and used in accordance with these Acts. If you have received this e-mail in error, please notify the author immediately and permanently destroy this transmission. Disclosing, copying, distributing or taking any action regarding the contents of this transmission is strictly prohibited.
From: Khan, Haseen [mailto:hkhan@gov.nl.ca]
Sent: Friday, October 27, 2017 6:49 AM
To: Pat.Brooks <Pat.Brooks@gov.yk.ca>; POLEGAAR@gov.ns.ca; Caroline.Robert@mddelcc.gouv.qc.ca;
David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; ghsomers@gov.pe.ca; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca;
MLeBlanc-Havard@GOV.NU.CA; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ene.gov.on.ca
Cc: anne.vezina@canada.ca
Subject: RE: Protocol for lead exceedances in school drinking water

Good Morning Pat;

Current Status:
Grade schools and post-secondary institutes undergo regular bacteriological testing but chemical water testing is not normal practice. This would be the responsibility of the school/school board. NL utilizes the Health Canada Guideline Technical Document: Lead for sampling protocol for the evaluation of lead exposure.

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on municipal water supplies. These samples were classed as source water samples as they were tested before any treatment and before entering the school’s plumbing system. During this study 2 lead exceedances were identified. Lead exceedances were thought to be caused by plumbing between the well and the sampling point. Resampling of one sample allowed for a longer flushing time rectified this situation which confirms the conclusion that the lead is not a natural occurring contaminant of the well.

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I trust this is helpful.

Haseen Khan, P.Eng.
Director
Water Resources Management Division
Department of Municipal Affairs and Environment
4th Floor, Confederation Building West Block
PO Box 8700
St. John’s NL Canada A1B 4J6
T (709) 729-2563
F (709) 729-0320
E hkhans@gov.nl.ca
www.gov.nl.ca/env

From: Pat.Brooks@gov.yk.ca [mailto:Pat.Brooks@gov.yk.ca]
Send: Wednesday, October 18, 2017 4:10 PM
To: POLEGAAR@gov.ns.ca; Caroline.Robert@mddelcc.gov.qc.ca; David.Fishwick@gov.bc.ca; donald.reid@gov.ab.ca; ghsomers@gov.pe.ca; Khan, Haseen; Kevin.Gould@gnb.ca; Kim.Philip@gov.mb.ca; M.LeBlanc-Havard@GOV.NU.CA; Pat.Brooks@gov.yk.ca; Peter_Workman@gov.nt.ca; sam.ferris@wsask.ca; Satish.Deshpande@ene.gov.on.ca
Cc: anne.vezina@canada.ca
Subject: Protocol for lead exceedances in school drinking water
Importance: High

Hi Everyone,

If any of you have a protocol that would be helpful for dealing with lead exceedances in drinking water in schools that you can forward on, it would be very much appreciated.

Regards.
Pat

Patricia Brooks
Drinking Water Program Coordinator

s. 34(1)(a)(ii)
On behalf of Anne Vézina

CDW folks,

Anne is away but we wanted to give you a heads-up that the draft document on copper will be posted for public comment later today. The public comment period will be from March 23rd to May 25th.

Cheers,

France

France Lemieux, M. Eng.

Head, Materials and Treatment Section/Healthy Environments and Consumer Safety Branch
Health Canada/Government of Canada

NEW EMAIL: France.Lemieux@canada.ca Tel: 613-941-3166

Chef, Section des produits et du traitement/Direction générale de la santé environnementale et de la sécurité des consommateurs
Santé Canada/Gouvernement du Canada

NOUVEAU COURRIEL: France.Lemieux@canada.ca Tél. : 613-941-3166
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Monday, March 26, 2018 4:39 PM
To: Angelina Polegato (POLEGAAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Beattie, Tim (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Zuric, Jelena (HC/SC)

Subject: Consultation document on copper is now posted!

CDW folks,

For your information, the draft Guideline Technical Document on Copper in Drinking Water is now posted for public comment until May 25th:

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Tuesday, March 27, 2018 12:40 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Zuric, Jelena (HC/SC)
Subject: FW: Copper document - public consultation

CDW folks,

There is a glitch with our publication of the copper document as the link for the English opens the French version of the document. Not a strategy from us to make you learn your French (darn!) but we are working on addressing the issue.

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: 2018-03-26 5:06 PM
To: Lemieux, France (HC/SC); Vezina, Anne (HC/SC)
Subject: RE: Copper document - public consultation

Bonjour France et Anne:
J'essaie d'ouvrir la version pdf du document de cuivre, mais je trouve seulement la version français. Avez-vous l'URL pour la version anglaise aussi? M'aidez! (...otherwise I'll have to continue to try to speak French and clearly no one wants to hear that...@!!!)
Dave

From: Lemieux, France (HC/SC) [mailto:france.lemieux@canada.ca]
Sent: Friday, March 23, 2018 7:17 AM
To: Angelina Polegato; Caroline Robert; Fishwick, David HLTH:EX; Donald Reid; George Somers; Haseen Khan; Kevin
Gould; Kim Philip; Michele LeBlanc-Havard; Pat Brooks; Peter Workman; Sam Ferris; Satish Deshpande
Cc: Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Zuric, Jelena (HC/SC); Vezina, Anne (HC/SC)

Subject: Copper document - public consultation

On behalf of Anne Vézina

CDW folks,

Anne is away but we wanted to give you a heads-up that the draft document on copper will be posted for public comment later today. The public comment period will be from March 23rd to May 25th.

Cheers,

France

France Lemieux, M. Eng.

Head, Materials and Treatment Section/Healthy Environments and Consumer Safety Branch
Health Canada/Government of Canada

NEW EMAIL: France.Lemieux@canada.ca Tel: 613-941-3166

Chef, Section des produits et du traitement/DIRECTION GÉNÉRALE DE LA SANTÉ ENVIRONNEMENTALE ET DE LA SÉCURITÉ DES CONSOMMATEURS
Santé Canada/Gouvernement du Canada

NOUVEAU COURRIEL: France.Lemieux@canada.ca Tel.: 613-941-3166
Haskell, Ellen

From: Deshpande, Satish (MOECC) <Satish.Deshpande@ontario.ca>
Sent: Monday, May 14, 2018 6:18 PM
To: Fishwick, David HLTH:EX; Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca)
Cc: Anne Vezina
Subject: Re: Lead in Daycares question

Ontario does. Reg 243

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message
From: Fishwick, David HLTH:EX
Sent: Monday, May 14, 2018 4:04 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Haseen Khan (hkhan@gov.nl.ca); Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Deshpande, Satish (MOECC)
Cc: Anne Vezina
Subject: Lead in Daycares question

Hi everyone, quick question:
Do any of your jurisdictions currently require daycares to test for lead in drinking water?

Sent from my iPhone
David: Saskatchewan does not require this by regulation, however there is a preference to see such monitoring performed in schools and daycares when monitoring plans come forward. We do not place such conditions specifically in permits.

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

From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: Monday, May 14, 2018 2:05 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Caroline Robert (Caroline.Robert@mddelcc.gov.qc.ca); Donald Reid (donald.reid@gov.ab.ca) <donald.reid@gov.ab.ca>; George Somers (gksamers@gov.pe.ca); Haseen Khan (hkhan@gov.nl.ca) <hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Philip@gov.mb.ca) <Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter.Workman@gov.nt.ca) <Peter.Workman@gov.nt.ca>; Sam Ferris <Samuel.Ferris@wsask.ca>; Satish Deshpande (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca>
Cc: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Subject: Lead in Daycares question

Hi everyone, quick question:
Do any of your jurisdictions currently require day cares to test for lead in drinking water?
Hi David;

No such requirements in NL. Thanks.

Haseen Khan, P.Eng.
Director
Water Resources Management Division
Department of Municipal Affairs and Environment 4th Floor, Confederation Building West Block PO Box 8700 St. John’s NL Canada A1B 4J6 T (709) 729-2563 F (709) 729-0320 E hkhan@gov.nl.ca www.mae.gov.nl.ca/waterres/

-----Original Message-----
From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: Monday, May 14, 2018 5:35 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca) <Caroline.Robert@mddelcc.gouv.qc.ca>; Donald Reid (donald.reid@gov.ab.ca) <donald.reid@gov.ab.ca>; George Somers (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Khan, Haseen <hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Philip@gov.mb.ca) <Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA) <MLEBlanc-Havard@GOV.NU.CA>; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter_Workman@gov.nt.ca) <Peter_Workman@gov.nt.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>; Satish Deshpande (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca>
Cc: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Subject: Lead in Daycares question

Hi everyone, quick question:
Do any of your jurisdictions currently require day cares to test for lead in drinking water?

Sent from my iPhone
Thanks Haseen!

Sent from my iPhone

> On May 15, 2018, at 04:58, Khan, Haseen <hkhan@gov.nl.ca> wrote:
> 
> Hi David;
> 
> No such requirements in NL. Thanks.
> 
> Haseen Khan, P.Eng.
> Director
> Water Resources Management Division
> Department of Municipal Affairs and Environment 4th Floor,
> Confederation Building West Block PO Box 8700 St. John's NL Canada
> A1B 4J6 T (709) 729-2563 F (709) 729-0320 E hkhan@gov.nl.ca
> www.mae.gov.nl.ca/waterres/
> 
> -----Original Message-----
> From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
> Sent: Monday, May 14, 2018 5:35 PM
> To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>;
> Caroline Robert (Caroline.Robert@mddelcc.gov.qc.ca)
> <Caroline.Robert@mddelcc.gov.qc.ca>; Donald Reid
> (donald.reid@gov.ab.ca) <donald.reid@gov.ab.ca>; George Somers
> (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Khan, Haseen
> <hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca)
> <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Phillip@gov.mb.ca)
> <Kim.Phillip@gov.mb.ca>; Michele LeBlanc-Havard
> (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>; Pat Brooks
> (Pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman
> (Peter_Workman@gov.nt.ca) <Peter_Workman@gov.nt.ca>; Sam Ferris
> (Sam.Ferris@wsask.ca) <Sam.Ferris@wsask.ca>; Satish Deshpande
> (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca>
> Cc: Anne Vezina <anne.vezina@hc-sc.gc.ca>
> Subject: Lead in Daycares question
> 
> Hi everyone, quick question:
> 
> Do any of your jurisdictions currently require day cares to test for lead in drinking water?
Hi David,

If the daycare has its own well, yes lead sampling requirements apply in Québec.

If the daycare is connected to another distribution system (ex. municipality), the sampling requirements apply to the owner of the distribution system, and a proportion of its annual samplings required have to be taken from tap found in schools and daycares.

Section 14.1 and Schedule 4, division III of the Regulation:
http://legis quebec.gouv.qc.ca/en/ShowDoc/cr/Q-2,%20r,%2040

Caroline Robert, directrice
Direction de l'eau potable et des eaux souterraines Ministère du Développement durable, de l'Environnement, et de la Lutte contre les changements climatiques 675, René-Lévesque Est, 8e étage, boîte 42 Québec (Québec) G1R 5V7 Tél. 418-521-3885, poste 4938 Fax. 418-644-2003
Courriel: caroline.robert@mddelcc.gouv.qc.ca

-----Message d'origine-----
De : Fishwick, David HLT:EX <mailto:David.Fishwick@gov.bc.ca> Envoyé : 14 mai 2018 16:05 À : Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Robert, Caroline <Caroline.Robert@mddelcc.gouv.qc.ca>; Donald Reid (donald.reid@gov.ab.ca) <donald.reid@gov.ab.ca>; George Somers (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Haseen Khan (hkhan@gov.nl.ca) <hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Philip@gov.mb.ca) <Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter_Workman@gov.nt.ca) <Peter_Workman@gov.nt.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>; Satish Deshpande (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca> Cc : Anne Vezina <anne.vezina@hc-sc.gc.ca> Objet : Lead in Daycares question

Hi everyone, quick question:
Do any of your jurisdictions currently require day cares to test for lead in drinking water?

Sent from my iPhone
Hi David.

I checked with the program person at the Department of Health and was advised that they do not require daycares to test for lead in drinking water. For those on private wells, they are asked or routine bacteriological and inorganic testing in early learning and childcare centres. Further lead testing would likely be required if an issue or concern was noted.

IMO, this is subject to change given the forthcoming Lead Guideline document (and Manganese for that matter).

Regards,
Kevin

-----Original Message-----
From: Fishwick, David HLTH:EX [mailto:David.Fishwick@gov.bc.ca]
Sent: Monday, May 14, 2018 5:05 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Haseen Khan (hkhan@gov.nl.ca); Gould, Kevin (ELG/EGL); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Anne Vezina
Subject: Lead in Daycares question

Hi everyone, quick question:
Do any of your jurisdictions currently require day cares to test for lead in drinking water?

Sent from my iPhone
From: Water News Canada <water_eau@hc-sc.gc.ca> on behalf of Water_eau <water_eau@HC-SC.GC.CA>
Sent: Wednesday, May 16, 2018 4:46 PM
To: WATER NEWS CANADA@LIST.HC-SC.GC.CA
Subject: Reminder: Public Consultation: Guidelines for Canadian Drinking Water Quality - Guideline Technical Document on Copper

The public consultation period for the guideline technical document on copper in drinking water will be over soon! All comments should be sent to water_eau@hc-sc.gc.ca by May 25, 2018. The document is available on our website at:


Questions or comments? Contact us at water_eau@hc-sc.gc.ca

To unsubscribe, please visit this website: www.canada.ca/en/health-canada/services/environmental-workplace-health/water-quality/mailing-list-water-quality-environmental-workplace-health.html

Pour recevoir ces messages en français, veuillez vous abonner en visitant : www.canada.ca/fr/sante-canada/services/sante-environnement-milieu-travail/qualite-eau/liste-distribution-qualite-eau-sante-environnement-milieu-travail.html

Water and Air Quality Bureau / Bureau de la qualité de l'air et de l'eau
Safe Environments Directorate, HECSB / Direction de la sécurité des milieux/DGSESC
Health Canada / Santé Canada
269 Laurier Ave West, AL 4903D, Ottawa, Ont.
water_eau@hc-sc.gc.ca
Haskell, Ellen

From: Philip, Kim (SD) <Kim.Philip@gov.mb.ca>
Sent: Friday, May 25, 2018 6:07 PM
To: Peter Workman; Fishwick, David HLTH:EX; Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); Donald Reid (donald.reid@gov.ab.ca); George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Subject: RE: Lead in Daycares question - MB

Very sorry for the delay in responding. MB does not currently require day cares to test for lead in drinking water (except where they are semi-public water systems with an independent well water supply).

We have tested daycares in communities with known lead issues; and we've been talking to the Daycare Office about possible testing requirements but I'd say we are a long way from implementing any regulatory requirements.

Kim Philip

-----Original Message-----
From: Peter Workman [mailto:Peter_Workman@gov.nt.ca]
Sent: May-16-18 9:48 AM
To: Fishwick, David HLTH:EX <David.Fishwick@gov.bc.ca>; Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca) <Caroline.Robert@mddelcc.gouv.qc.ca>; Donald Reid (donald.reid@gov.ab.ca) <donald.reid@gov.ab.ca>; George Somers (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Haseen Khan (hkhan@gov.nl.ca) <hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Philip, Kim (SD) <Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>; Satish Deshpande (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca>
Cc: Anne Vezina <anne.vezina@hc-sc.gc.ca>
Subject: RE: Lead in Daycares question

Hi David and all

In the NWT most daycares are not tested for lead in drinking water, most are not on private water and very low levels are found in our source water which is tested annually. Also most are not at risk of lead service lines as they are on trucked services.

As Kevin mentioned this may change with the new guidance coming out for at least one set of baseline samples for lead.

Thanks

Peter

Mársi | Kinanâskomitin | Thank you | Merci | Hâj' | Quana | Qujannamiik | Quyannainni | Máhsi | Máhsi | Mahsi

Peter Workman
Chief Environmental Health Officer | Hygiéniste en chef du milieu Population Health | Santé de la population
Department of Health and Social Services | Ministère de la Santé et des Services sociaux Government of the Northwest Territories | Gouvernement des Territoires du Nord-Ouest
Hi everyone, quick question:
Do any of your jurisdictions currently require day cares to test for lead in drinking water?

Sent from my iPhone
Interesting indeed! Are there any details available to back up their lead-reduction claims? Devil is in the details.

-----Original Message-----
From: Vezina, Anne (HC/SC) [mailto:anne.vezina@canada.ca]
Sent: Tuesday, September 11, 2018 10:10 AM
To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Caroline Robert (Caroline.Robert@mddfcl.gov.qc.ca) <Caroline.Robert@mddfcl.gov.qc.ca>; David Fishwick (David.Fishwick@gov.bc.ca); Dr Lyndon Gyurek <Lyndon.Gyurek@gov.ab.ca>; George Somers (gksam@gov.pe.ca) <gksam@gov.pe.ca>; Haseen Khan (hkhan@gov.nl.ca) <hkhan@gov.nl.ca>; Gould, Kevin (ELG/EG) <kevin.gould@gov.mb.ca>; Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA) <MLEBlanc-Havard@GOV.NU.CA>; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter_Workman@gov.nt.ca) <peter_workman@gov.nt.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>; Satish Deshpande (Satish.Deshpande@ene.gov.on.ca) <Satish.Deshpande@ene.gov.on.ca>
Subject: FW: Look what I found yesterday! - Britta Pitcher Filters that Reduce Lead

CDW - just FYI!

Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water Coordonatrice du Comité F/P/T sur l’eau potable
Health Canada Santé Canada Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

-----Original Message-----
From: Philip, Kim (SD) [mailto:Kim.Philip@gov.mb.ca]
Sent: 2018-09-10 11:28
To: Lemieux, France (HC/SC); Vezina, Anne (HC/SC)
Cc: Coulibay, Housseini (SD)
Subject: FW: Look what I found yesterday! - Britta Pitcher Filters that Reduce Lead

This was new for me - not sure if other CDW members would be aware?

Kim Philip
-----Original Message-----
From: Philip, Kim (SD)
Sent: September-10-18 10:26 AM
To: Roberecki, Susan (HSAL) <Susan.Roberecki@gov.mb.ca>; Frykoda, Amy (HSAL) <Amy.Frykoda@gov.mb.ca>; Yeo, Stephen (SD) <Stephen.Yeo@gov.mb.ca>; Betsill, Melanie (SD) <Melanie.Betsill@gov.mb.ca>; Coulibaly, Housseini (SD) <Housseini.Coulibaly@gov.mb.ca>; Gerardy, Christine (SD) <Christine.Gerardy@gov.mb.ca>
Cc: Barlishen, Kim (SD) <Kim.Barlishen@gov.mb.ca>; Balcaen, Marc (SD) <Marc.Balcaen@gov.mb.ca>
Subject: FW: Look what I found yesterday! - Britta Pitcher Filters that Reduce Lead

This eliminates the need to fit a tap filter on your faucet, which doesn't work for people who have a spray tap, or people like me who have a portable dishwasher (see phone #1).

Ensures the homeowner filter solution available to everyone.

Cost at Superstore in Winnipeg was roughly $23 for a Britta pitcher and $23 for a 6-month filter.

Stephen and Christine - could you please ensure that Brandon and Dauphin are aware of this option.

Kim Philip

-----Original Message-----
From: Philip, Kim (SD)
Sent: September-10-18 10:17 AM
To: Philip, Kim (SD) <Kim.Philip@gov.mb.ca>
Subject:
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Monday, September 17, 2018 12:14 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca); Satish Deshpande (Satish.Deshpande@ene.gov.on.ca)
Cc: Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lafarge, Melissa (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Sultan, Yasir (HC/SC)
Subject: FW: CHE/CSE: Guideline Technical Document on lead in drinking water / le document technique de la recommandation sur le plomb dans l'eau potable

CDW folks,

For your information, the document on lead is now with CHE. Please make sure to follow-up with your CHE representatives so we can get their approval.

Thank you,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

From: Marshall, Val (HC/SC)
Sent: 2018-09-17 10:16
To: Allan Torng; Angela Burridge; Bill Rideout; Hanley, Brendan (Ext.); Morin, David (HC/SC); Debra Hopkins; Diep Duong; Don Labossiere; Howse, Doug G.; Joy, Wanda; Karen White-Masry; Lisa Paquin; Marion Schneblen; Turtlač, Merry (Ext.); Michele LeBlanc-Havard (MLEBlanc-Havard@GOV.NU.CA); Ryan Neale; Sherri Young; Susan Roberecki; Tim Fletcher; Tim Lambert (tim.lambert@gov.bc.ca); Tim Maculay; Fraser, Todd (Ext.); Todd Powell (Todd.Powell@gov.yk.ca); Tony Amalfa; Vincent Gagnon-Lefebvre
Cc: Vezina, Anne (HC/SC); Leppinen, Suzanne (HC/SC); Marshall, Val (HC/SC); Tunstall, Victoria (HC/SC)
Subject: CHE/CSE: Guideline Technical Document on lead in drinking water / le document technique de la recommandation sur le plomb dans l'eau potable
CHE Members;

As a member of the Committee on Health and Environment (CHE), you are being asked to approve the guideline technical document on lead in drinking water developed by the Federal-Provincial-Territorial Committee on Drinking Water (CDW). Should you have any questions regarding the guideline technical document or the process, please contact your CDW representative (see attached current CDW membership list).

Please let me know by Friday, October 19th, 2018 of your jurisdiction’s position, with a cc to Anne.Vezina@Canada.ca

Thank you.

________________________________________________________________________

Un mot aux membres du CSE,

À titre de membre du Comité sur la Santé et l'Environnement (CSE), nous communiquons avec vous pour vous demander de bien vouloir approuver le document technique de la recommandation sur le plomb dans l’eau potable, préparé par le Comité fédéral-provincial-territorial sur l’eau potable (CEP). Si vous avez des questions concernant le document technique de la recommandation ou le processus, n'hésitez pas à communiquer avec votre représentant du CEP (voir la liste actuelle des membres du CEP ci-joint).

Veuillez me faire part de la position de votre province/territoire d'ici le vendredi le 19 octobre 2018, et copiez Anne.Vezina@Canada.ca

Merci.

Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tél.: (613) 957-3130
Fax: (613) 952-2574

________________________________________________________________________

Valerie Marshall

Senior Policy Analyst, Healthy Environments and Consumer Safety Branch
Health Canada/Government of Canada
val.marshall@canada.ca/Tél: 613-946-6471

Analyste principale de politiques/DIRECTION GÉNÉRALE DE LA SANTÉ ENVIRONNEMENTALE ET DE LA SÉCURITÉ DES CONSOMMATEURS
Santé Canada/Gouvernement du Canada
val.marshall@canada.ca/Tél: 613-946-6471
FEDERAL, PROVINCIAL, TERRITORIAL (F/P/T)  
COMMITTEE ON HEALTH AND THE ENVIRONMENT (CHE)  
BRIEFING NOTE  
August 2018

AGENDA ITEM: Water

PRESENTED BY: FPT Committee on Drinking Water (CDW)

OBJECTIVE: Approval of guideline technical document on lead in drinking water

DIRECTION/DECISION REQUESTED: 
CHE approve the final guideline technical document on lead in drinking water.

BACKGROUND:
➢ The work on updating the guideline technical document on lead was initiated in 2010 by the FPT CDW Technical Secretariat.
➢ CDW thoroughly assessed the document and gave its approval for public consultation during the May 2015 meeting.
➢ The proposed guideline technical document for lead underwent a national consultation process ending in March 2017.
➢ All comments from the public consultation and all comments from provinces and territories have been considered, and the document has been finalized.
➢ The final guideline technical document for lead has been reviewed by CDW. All provincial and territorial concerns have been discussed and resolved. CDW members provided their approval during the November 2017 meeting.
➢ Please contact your CDW representative for details concerning the review and approval process (please refer to the latest CDW membership list).

ISSUE(S) FOR DISCUSSION:
➢ nil

RECOMMENDATION:
➢ CHE approve the guideline technical document for lead in drinking water.

ATTACHMENTS
➢ Guideline Technical Document: Part I. Overview and Application
Part I. Overview and Application

1.0 Guideline

The maximum acceptable concentration (MAC) for total lead in drinking water is 0.005 mg/L (5 µg/L), based on a sample of water taken at the tap and using the appropriate protocol for the type of building being sampled. Every effort should be made to maintain lead levels in drinking water as low as reasonably achievable (or ALARA).

2.0 Executive summary

Lead is usually found in drinking water as a result of leaching from distribution and plumbing system components, particularly in aggressive (corrosive) waters. Historically, lead has been used extensively in service lines, solders and fittings, making its presence in drinking water more likely in older homes and neighbourhoods.

This guideline technical document reviews and assesses all identified health risks associated with lead in drinking water. It assesses new studies and approaches and takes into consideration the availability and limitations of appropriate treatment and analytical technologies. The information contained in this document is complementary to that found in Guidance on Controlling Corrosion in Drinking Water Distribution Systems.

2.1 Health effects

Inorganic lead compounds have been classified as probably carcinogenic to humans, based on findings in experimental animals. However, the cancer effects are not the main health effects of concern in humans.

The toxicity of lead has been extensively documented in humans, based on blood lead levels (BLLs). Effects that have been studied include increased blood pressure and renal dysfunction in adults, as well as adverse cognitive and behavioural effects in children. The strongest association observed to date is between increased BLLs in children and reductions in intelligence quotient (IQ) scores, which is the health effect on which the MAC is based. The threshold below which lead is no longer associated with adverse neurodevelopmental effects has not been identified. As the MAC exceeds the drinking water concentration associated with neurodevelopmental effects in children, every effort should be made to maintain lead levels in drinking water as low as reasonably achievable (or ALARA).

2.2 Exposure

Lead is commonly found in the environment, both naturally and as a result of human activities. Canadians are exposed to small amounts of lead in water, food, air, soil and consumer products. Lead has historically been used in drinking water distribution and plumbing systems, as well as in paints and as an additive in gasoline. Significant reductions of lead in products such as gasoline and paints mean that food and drinking water have become more important sources of lead exposure for average adult populations. Inhalation can also be an important source for individuals residing in the vicinity of point sources, such as racetracks and airports where leaded gasoline may still be used.
2.3 Analysis and treatment

The establishment of a drinking water guideline must take into consideration the ability to measure the contaminant. There are several methods available for the analysis of total lead in drinking water. Based on the capacity of commercial laboratories in Canada, analytical methods are available to reliably measure total lead in drinking water below the MAC. These methods require sample preparation steps to ensure that they are able to detect both dissolved and particulate lead.

The guideline development process also considers the ability to remove the contaminant from drinking water supplies to meet the MAC. Although there are treatment technologies that can remove lead efficiently at the treatment plant, municipal treatment alone is may not be an effective strategy to reduce lead to concentrations at the tap below the MAC. This is because materials used in the distribution and plumbing systems, such as service lines, solder and fittings, may contain lead, which may leach into the water and be found at the tap as a result of corrosion in these systems. Consequently, the best approach to minimize exposure to lead from drinking water at the municipal level is to remove the full service line and to control corrosion in the distribution and treatment systems.

As the primary source of lead in drinking water is the leaching from distribution and plumbing system components, drinking water treatment devices offer an effective option to lower exposure to lead from drinking water at the residential level. However, their use should not be considered to be a permanent solution because filters must be replaced regularly and the systems require ongoing maintenance. There are a number of certified residential treatment devices available that can remove lead from drinking water.

3.0 Application of the guideline

*Note: Specific guidance related to the implementation of drinking water guidelines should be obtained from the appropriate drinking water authority in the affected jurisdiction.*

The MAC for lead is established based on feasibility rather than only health protection. This is because lead is introduced in drinking water in the distribution and plumbing systems, after the treated water leaves the treatment plant. As current science cannot identify a level under which lead is no longer associated with adverse health effects, lead concentrations in drinking water should be kept as low as reasonably achievable (ALARA). Since formula reconstituted with tap water can represent a major source of exposure to lead in infants, alternate sources should be used if the tap water contains lead.

Considering that lead levels at the consumer’s tap may be significantly higher than levels at the treatment plant or in the distribution system, strategies to reduce exposure to lead will need to focus on controlling corrosion within the distribution and plumbing systems and on removing lead-containing components, such as lead service lines, from these systems. Although it is recognized that a utility’s responsibility does not generally include residential plumbing systems, most of the established guidelines are intended to apply at the consumer’s tap. Lead monitoring should focus on areas known or likely to have lead service lines or that have older buildings and should include zones supplied by potentially corrosive water (e.g., dead ends in a chloraminated system) and consecutive systems (i.e., public water systems whose drinking water supply is from another public water system).
An exceedance of the MAC should be investigated and followed by the appropriate corrective actions. These actions include, but are not limited to, resampling, public education, removal of lead service lines and corrosion control measures. It should be kept in mind that flushing the cold water tap has not been found to sufficiently reduce lead exposure in schools, multi-dwelling residences and large buildings in a consistent fashion. These actions should be based on an assessment of the cause of the exceedance using appropriate protocols, such as those found in the Health Canada publication *Guidance on Controlling Corrosion in Drinking Water Distribution Systems*.

Discoloration (red water) episodes are likely to be accompanied by the release of accumulated contaminants, including lead because dissolved lead is adsorbed onto iron deposits in the lead service line. Therefore, discolored water events should not be considered only as an aesthetic issue, but should trigger sampling for metals and possibly distribution system maintenance.

### 3.1 Monitoring

Sampling protocols will differ, depending on the desired objective (i.e., identifying sources of lead, controlling corrosion, assessing compliance, estimating exposure to lead). As monitoring of lead at the tap can be done using different sampling protocols, it is important that the selected protocol be appropriate to meet the desired objective.

The objective of sampling protocols in this document is to monitor for typical community exposure to total lead to determine whether there are concerns related to effects on human health. Compliance monitoring should be conducted at the consumer’s tap, with priority given to identifying homes with lead service lines, as these are likely to have the highest lead concentrations. If the objective is to characterize whether distributed water is corrosive to the materials found in the distribution system and household plumbing, the Guidance on Controlling Corrosion in Drinking Water Distribution Systems should be used.

In order to identify zones with lead issues, sampling protocols should initially capture the entire distribution system. However, utilities that have already identified zones/areas of concern can focus on further characterization of these zones. The determination of the source of the lead issues can help select the most appropriate mitigation measures within identified zones. For example, the province of Québec currently uses a full flush protocol in areas with homes suspected of having lead service lines. The protocol compares the results from a fully flushed sample against a specified lead threshold, validated through studies, to confirm homes with lead service lines and subsequently prioritize for mitigation measures. A list of sample types, protocols and the objective of each of these protocols can be found in section 5.1 of this document.

Schools and daycare facilities should also be prioritized for monitoring to ensure that the most sensitive population (i.e., young children) is captured. However, a different sampling protocol may need to be considered for schools, daycare facilities and larger buildings or dwellings. It is difficult to assess exposure in these buildings because of their unique and complex plumbing configurations and the large number of pipes and plumbing components. Sampling should be conducted at least once per year, with the number of sites to be monitored determined based on the size of the drinking water system and the type of building, as discussed below.
3.1.1 **Monitoring in residential dwellings**

Random daytime (RDT) and 30 minute stagnation (30MS) sampling protocols can both be used for residential sites, as they capture typical exposures, including potential exposure to particulate lead. They are considered appropriate for identifying priority areas for actions to reduce lead concentrations and assessing compliance. Although both RDT and 30MS are suitable for evaluating the effectiveness of corrosion control strategies, RDT sampling is used system-wide and 30 MS sampling is typically used at sentinel sites. Due to its random nature, RDT sampling requires 2-5 times more samples than 30MS to be statistically robust. Whereas RDT sampling is relatively inexpensive, more practical to implement and generally more acceptable to the consumer than 30MS sampling, the 30MS sampling protocol can also be used for investigating the cause of exceedances and identifying appropriate mitigation measures.

Sampling program should be conducted throughout the year to take into account seasonal effects on lead variability. Sampling should be conducted at the cold water tap in the kitchen or other appropriate location where water is used for drinking or food preparation. Regardless of the protocol used, all samples should be collected in wide-mouth sample bottles, and without removing the aerator. The samples need to be acidified using a 2% nitric acid solution and held for a minimum of 16 hours after preservation with nitric acid before analysis. Each sample should be thoroughly mixed prior to analysis using an appropriate method (see Section 6.0).

For RDT sampling, the establishment of a lead service line inventory will help identify water supply zones (geographical areas within which the quality of drinking water is considered approximately uniform) that are more likely to have high lead concentrations. Monitoring programs are conducted within defined water supply zones, which can vary in size but generally should not exceed 50,000 residents each. It is recommended that total lead be monitored, at least once per year, at the tap of a minimum of 20 randomly selected residences in each water supply zone.

**RDT sampling**: A 1 L sample should be collected randomly during the day from a drinking water tap in each of the residences. Samples should be collected without prior flushing; no stagnation period is prescribed, to better reflect consumer use.

**30MS sampling**: The tap should be flushed for 5 minutes, allowed to stand for a 30-minute stagnation period, during which time no water should be drawn from any outlet within the residence (including flushing of toilets). Two 1 L samples should then be collected at a medium to high flow rate (greater than 5 L/minute). The lead concentration is determined by averaging the results from the two samples.

3.1.2 **Monitoring for schools, multi-dwelling residences and large buildings**

In schools and daycares, it is recommended that total lead be monitored, at least once per year, at each of the drinking water fountains or cold water taps where water is used for drinking or food preparation. Sampling should be conducted between the months of June and October, but when the buildings are fully occupied and functional, to capture typical exposure levels – recommended to be in either June or October for schools. Jurisdictions may choose to reduce monitoring if they have established that the lead issues have been identified and addressed.

In multi-dwelling (i.e., more than six residences) buildings or large buildings, it is recommended that total lead be monitored in a manner such that each of the drinking water
fountains and at a proportion of cold water taps where water is used for drinking or food preparation is sampled within specified period. When sampling multi-dwelling buildings, priority should be given to sites suspected or known to have full or partial lead service lines. A RDT sampling protocol is recommended for these sites to capture typical exposures, including potential exposure to particulate lead.

RDT sampling should be conducted by collecting a sample at drinking water fountains or at cold water taps where water is used for drinking or food preparation, without a stagnation period and without prior flushing. Two 125 mL samples should be collected, preferably in wide-mouth sample bottles, at a medium to high flow rate without removing the aerator. The samples need to be held for a minimum of 16 hours after they are acidified using a 2% nitric acid solution and prior to analysis. Each sample should be thoroughly mixed prior to being analyzed using an appropriate method (see Section 6.0). The lead concentration is determined by averaging the results from the two samples.

The sampling plan for schools and child care centres/facilities must consider that many occupants in these buildings are the most susceptible to the adverse health effects from lead exposure. Consequently, sampling plans for these facilities should prioritize every drinking water fountain and cold water outlet used for drinking or food preparation over infrequently used outlets. In other building types, sampling plans should also target drinking water fountains and cold water outlets used for drinking or food preparation, but with the number of sites sampled based on the size and population of the building.
COMITÉ FÉDÉRAL-PROVINCIAL-TERITORIAL (FPT)  
SUR LA SANTÉ ET L’ENVIRONNEMENT (CSE)  
NOTE D’INFORMATION  
août 2018

POINT À L’ORDRE DU JOUR :  Eau

PRÉSENTÉ PAR :  Comité FPT sur l’eau potable (CEP)

OBJECTIF :  Approbation du document technique de la recommandation concernant le plomb dans l’eau potable

ORIENTATION/DÉCISION REQUISE
Que le CSE approuve la version finale du document technique de la recommandation concernant le plomb dans l’eau potable.

CONTEXTE:
➢ Le travail sur la mise à jour du document technique de la recommandation sur le plomb dans l’eau potable a été initié en 2010 par le secrétariat technique du CEP.
➢ Le document a été examiné en détails par le CEP, qui a donné son approbation durant la réunion de mai 2015 pour que le document fasse l’objet d’une consultation publique.
➢ L’élaboration du document technique de la recommandation sur le plomb a suivi un processus de consultation publique national se terminant en mars 2017.
➢ Tous les commentaires de la consultation publique et tous les commentaires des provinces et territoires ont été considérés, et le document a été finalisé.
➢ Veuillez communiquer avec votre représentant du CEP pour obtenir des détails concernant le processus de révision et d’approbation (SVP, vous référez la liste des membres la plus récente).

SUJET(S) À DISCUTER :
➢ Sans objet

RECOMMANDATION
➢ Approbation, par le CSE, du document technique de la recommandation concernant le plomb dans l’eau potable.

PIÈCES JOINTES
➢ Document technique : Partie I. Vue d’ensemble et application.
Partie I : Vue d’ensemble et application

1.0 Recommandation

La concentration maximale acceptable (CMA) pour le plomb total dans l’eau potable est de 0,005 mg/L (5 µg/L), mesurée dans un échantillon d’eau prélevé au robinet et selon le protocole d’échantillonnage approprié au type d’immeuble. Tout doit être mis en œuvre pour maintenir les concentrations de plomb dans l’eau potable au niveau le plus bas qu’il soit raisonnablement possible d’atteindre (ou ALARA).

2.0 Sommaire

Le plomb est habituellement présent dans l’eau potable en raison de son relargage par les éléments du réseau de distribution ou de la plomberie, particulièrement dans des eaux agressives (corrosives). Par le passé, le plomb était fréquemment utilisé dans les entrées de service, les soudures et les raccords, ce qui rend sa présence dans l’eau potable plus probable dans les vieilles maisons et les vieux quartiers.

Le présent document technique contient un examen et une évaluation de tous les risques pour la santé connus qui sont associés à la présence du plomb dans l’eau potable. On y évalue les études et les approches nouvelles, en plus de tenir compte de la disponibilité et des limites des technologies appropriées de traitement et d’analyse. Les renseignements contenus dans ce document sont complémentaires à ceux qui figurent dans le Document de conseils sur le contrôle de la corrosion dans les réseaux de distribution d’eau potable.

2.1 Effets sur la santé

Les composés inorganiques du plomb ont été classés comme étant probablement cancérigènes pour l’humain, en fonctions des études réalisées sur des animaux. Toutefois, chez l’humain, les effets cancérigènes ne sont pas les principaux effets préoccupants sur la santé. La toxicité du plomb a été amplement documentée chez l’humain, en fonction de la concentration sanguine de plomb (appelée plombémie). Parmi les effets étudiés, mentionnons une élévations de la pression artérielle et une dysfonction rénale chez les adultes, de même que des effets cognitifs et sur le comportement des enfants. La plus forte association observée à ce jour est l’augmentation de la plombémie chez les enfants et la diminution des scores de quotient intellectuel (QI), qui est l’effet utilisé pour l’établissement de la CMA. Un seul sous lequel le plomb n’est plus associé à des effets indésirables sur le développement neurologique n’a pas été déterminé. Puisque la CMA est au-delà de la concentration dans l’eau potable associée à des effets sur le développement neurologique chez les enfants, il ne faut épargner aucun effort pour maintenir les concentrations de plomb dans l’eau potable au niveau le plus bas qu’il soit raisonnablement possible d’atteindre (ou ALARA).

2.2 Exposition

Le plomb est normalement présent dans l’environnement, tant sous sa forme naturelle qu’issu de l’activité humaine. Les Canadiens sont exposés à de petites quantités de plomb dans l’eau, la nourriture, l’air, le sol et les produits de consommation. Le plomb a longtemps été utilisé dans les réseaux de distribution d’eau potable et les installations de plomberie, ainsi que dans la peinture et comme additif dans l’essence. Des réductions importantes de la teneur en plomb dans les produits comme l’essence et la peinture signifient que les aliments et l’eau
potable constituent maintenant des sources d'exposition au plomb plus importantes dans les populations adultes moyennes. L'inhalation peut aussi être une source importante pour les personnes qui vivent à proximité de sources ponctuelles, comme les hippodromes et les aéroports, où de l'essence contenant du plomb pourrait encore être utilisée.

2.3 Analyse et traitement

Lorsque l'on établit une recommandation pour la qualité de l'eau potable, il faut tenir compte de la capacité de mesurer le contaminant. Il existe plusieurs méthodes d'analyse de la teneur totale en plomb dans l'eau potable. Selon la capacité des laboratoires commerciaux au Canada, on dispose de méthodes d'analyse permettant de mesurer de manière fiable le plomb dans l'eau potable à des niveaux inférieurs à la CMA. Ces méthodes nécessitent des étapes de préparation des échantillons afin de permettre la détection du plomb dissous et du plomb particulaire.

Le processus d'élaboration de la recommandation tient également compte de la capacité d'enlever le contaminant de l'approvisionnement d'eau potable en vue de respecter la CMA. Même s'il existe des techniques de traitement capables d'éliminer efficacement le plomb à l'usine de traitement, le traitement municipal seul ne constitue probablement pas une stratégie efficace pour diminuer les concentrations au robinet en deçà de la CMA. En effet, les matériaux utilisés dans les réseaux de distribution et les systèmes de plomberie, comme les entrées de service, les soudures et les raccords, peuvent contenir du plomb qui peut être libéré dans l'eau et se retrouver dans l'eau du robinet en raison de la corrosion. La meilleure approche à adopter pour minimiser l'exposition au plomb provenant de l'eau potable à l'échelle municipale consiste donc à enlever complètement la conduite de branchement et de contrôler la corrosion dans les systèmes de distribution et de traitement.

Comme la principale source de plomb dans l'eau potable est le relargage de celui-ci à partir des éléments des réseaux de distribution et des installations de plomberie, les dispositifs de traitement de l'eau potable s'avèrent une option efficace pour diminuer l'exposition au plomb dans l'eau potable à l'échelle résidentielle. Cependant, leur utilisation ne devrait pas être considérée comme une solution permanente, puisque les filtres doivent être remplacés régulièrement et qu'un entretien continu des systèmes s'impose. De nombreux dispositifs de traitement à usage résidentiel certifiés capables d'enlever le plomb de l'eau potable sont disponibles.

3.0 Application de la recommandation

Remarque : Des conseils spécifiques concernant l'application des recommandations pour l'eau potable devraient être obtenues auprès de l'autorité appropriée en matière d'eau potable dans le secteur de compétence concerné.

La CMA pour le plomb est établie en fonction de la faisabilité plutôt que seulement la protection de la santé. Cette approche est nécessaire parce que le plomb est principalement introduit dans l'eau potable dans le réseau de distribution ou les installations de plomberie. Comme la science actuelle ne peut déterminer un niveau sous lequel le plomb n'est plus associé à des effets indésirables sur la santé, les concentrations de plomb dans l'eau potable doivent être maintenues au niveau le plus faible qu'il soit raisonnablement possible d'atteindre (ALARA). Les préparations pour nourrissons reconstituées avec de l'eau du robinet peuvent être une source
importante d’exposition au plomb pour les nourrissons, il est recommandé d’utiliser une autre source d’eau si l’eau du robinet contient du plomb.

Étant donné que les concentrations de plomb au robinet du consommateur peuvent être considérablement plus élevées qu’à l’usine de traitement ou que dans le réseau de distribution, les stratégies visant à réduire l’exposition au plomb devront être axées sur le contrôle de la corrosion dans les réseaux de distribution et les systèmes de plomberie et sur l’enlèvement des éléments renfermant du plomb de ces systèmes, comme les entrées de service en plomb. Bien que la responsabilité des services publics ne comprend généralement pas les installations de plomberie résidentielles, la majorité des recommandations établies sont conçues pour être mise en œuvre au robinet du consommateur. La surveillance du plomb doit se faire surtout dans les endroits qui disposent ou sont susceptibles de disposer d’entrées de service en plomb ou dans lesquels se trouvent de vieux immeubles, et devrait comprendre les zones alimentées par de l’eau potentiellement corrosive (p. ex. cul-de-sac dans les réseaux chloraminés) et des systèmes consécutifs (c.e.-à-d. les systèmes publics dont l’approvisionnement provient d’un autre système d’eau potable public).

Un dépassement de la CMA devrait faire l’objet d’une enquête et de l’adoption de mesures correctives appropriées. Ces mesures englobent notamment le rééchantillonnage, l’éducation du public, l’enlèvement de conduites de branchements en plomb et des mesures de contrôle de la corrosion. Il faut tenir compte que purger le robinet d’eau froide ne s’est pas avéré suffisante pour diminuer l’exposition au plomb dans les écoles, les résidences à logements multiples et les grands immeubles de façon cohérente. Ces actions doivent être fondées sur une évaluation de la cause du dépassement au moyen de protocoles adéquats, comme ceux qui figurent dans le Document de conseils sur le contrôle de la corrosion dans les réseaux de distribution d’eau potable, publié par Santé Canada.

Des épisodes d’eau colorée (eau rouge) sont probablement accompagnés par le relargage de contaminant accumulés, notamment de plomb, parce que le plomb dissous est adsorbé sur les dépots de fer dans les conduites principales en plomb. Il ne faut donc pas considérer les épisodes d’eau colorée comme étant seulement un problème d’ordre esthétique, mais devraient provoquer un échantillonnage des métaux, et possiblement un entretien du réseau de distribution.

3.1 Surveillance

Les protocoles d’échantillonnage varieront selon l’objectif souhaité (c.e.-à-d. détection des sources de plomb, contrôle de la corrosion, évaluation de la conformité, estimation de l’exposition au plomb, etc.). Comme la surveillance du plomb au robinet peut se faire au moyen de différents protocoles d’échantillonnage, il est important que le protocole choisi soit le bon pour atteindre l’objectif visé.

L’objectif des protocoles d’échantillonnage dans ce document est la surveillance de l’exposition typique au plomb total dans une collectivité, afin de déterminer si cette exposition pourrait entraîner des inquiétudes par rapport aux effets sur la santé humaine. La surveillance de la conformité devrait être effectuée au robinet du consommateur en accordant la priorité à l’identification des résidences ayant une entrée de service en plomb, puisqu’elles sont susceptibles de présenter les concentrations de plomb les plus élevées. Si l’objectif est de déterminer si l’eau distribuée est corrosive aux matériaux présents dans le réseau de distribution et dans la plomberie, il faudrait consulter le Document de conseils sur le contrôle de la corrosion dans les réseaux de distribution d’eau potable.
Pour identifier les zones ayant des problèmes de plomb, les protocoles d’échantillonnage devraient au départ inclure tout le réseau de distribution. Les services publics ayant déjà déterminé les zones/emplacements problématiques peuvent cibler ces zones pour mieux les caractériser. L’identification de la source du plomb peut être utile pour choisir les mesures correctives les plus appropriées dans les zones identifiées. Par exemple, la province de Québec utilise présentement un protocole de purge complète dans les zones où l’on soupçonne la présence de conduites principales en plomb. Le protocole compare les résultats d’un échantillon obtenu après une purge complète avec un seuil de plomb spécifique, validé par des études, afin d’identifier les résidences avec des conduites principales en plomb et déterminer leur priorité pour des mesures correctives. Une liste du type d’échantillon, des protocoles et des objectifs de chacun de ces protocoles se trouve dans la section 5.1 de ce document.

La surveillance des écoles et des garderies doit également être prioritaire afin de capturer l’exposition de la population la plus sensible (c.-à-d. les jeunes enfants). Toutefois, un protocole d’échantillonnage différent devrait peut-être être envisagé pour les écoles, les garderies et les grands immeubles ou grandes habitations. Il est difficile d’évaluer l’exposition dans ces bâtiments en raison des configurations de plomberie particulières et complexes et du grand nombre de tuyaux et d’éléments de plomberie. L’échantillonnage doit être effectué au moins une fois par année, le nombre de sites à surveiller étant déterminé en fonction de la taille du réseau d’eau potable et du type d’immeuble, comme nous le verrons ci-après.

3.1.1 Surveillance dans les habitations résidentielles

Deux protocoles d’échantillonnage, soit l’échantillonnage aléatoire (RDT) et l’échantillonnage après une période de stagnation de 30 minutes (30MS), sont capables de capturer l’exposition typique au plomb, y compris l’exposition possible au plomb particulier, et peuvent donc être utilisés pour les sites résidentiels. Ces protocoles sont appropriés pour identifier les endroits prioritaires pour agir afin de réduire les concentrations de plomb et d’évaluer la conformité. Bien que ces deux protocoles soient aussi aptes à évaluer l’efficacité des stratégies de contrôle de la corrosion, l’échantillonnage aléatoire peut être utilisé à la grandeur du système alors que l’échantillonnage 30MS est normalement utilisé aux sites sentinelles. En comparaison avec l’échantillonnage 30MS, de 2 à 5 fois plus d’échantillons doivent être prélevés par l’échantillonnage aléatoire pour avoir des résultats robustes. Alors que l’échantillonnage aléatoire est relativement peu coûteux, plus pratique à mettre en application et généralement mieux accepté par les résidents que l’échantillonnage 30MS, ce dernier offre l’avantage de pouvoir être utilisé pour déterminer la cause des niveaux élevés de plomb et pour identifier des mesures correctives appropriées.

L’échantillonnage devrait être effectué tout au long de l’année pour pouvoir tenir compte de la variabilité du plomb en fonction des effets saisonniers. L’échantillonnage devrait être effectué au robinet d’eau froide de la cuisine ou d’un autre endroit approprié où l’eau est utilisée pour la consommation ou la préparation d’aliments. Quel que soit le protocole utilisé, tous les échantillons devraient être prélevés dans des flacons à échantillons à grande ouverture sans retirer l’aérateur. Les échantillons doivent être acidifiés avec une solution d’acide nitrique à 2 %, et un délai d’attente d’au moins 16 heures est ensuite requis avant de procéder à l’analyse. Chaque échantillon doit être bien mélangé avant l’analyse à l’aide d’une méthode appropriée (voir la section 6.0).

Pour l’échantillonnage aléatoire, la création d’un inventaire des entrées de service en plomb aidera à identifier les zones d’approvisionnement en eau (des secteurs géographiques dans
lesquels la qualité de l’eau potable est considérée être à peu près uniforme) dans lesquelles les concentrations de plomb sont probablement élevées. Les programmes d’échantillonnages sont effectués à l’intérieur de ces zones d’approvisionnement en eau qui sont de tailles variées mais dont aucune ne devraient dépasser 50 000 habitants. On recommande de mesurer le plomb total dans chaque zone d’approvisionnement en eau au moins une fois par année au robinet de 20 résidences (ou plus) choisies au hasard.

Échantillonnage aléatoire : Recueillir un échantillon de 1 L à n’importe quel moment de la journée d’un robinet d’eau potable de chacune des résidences. Les échantillons doivent être prélevés sans purge préalable ni période de stagnation, afin de mieux correspondre à l’utilisation typique du consommateur.

Échantillonnage 30MS : Purger le robinet pendant 5 minutes, puis attendre pendant une période de stagnation de 30 minutes pendant laquelle il ne faut laisser couler l’eau d’aucun robinet et ne tirer aucune chasse d’eau. Recueillir ensuite deux échantillons de 1 L à une vitesse de débit moyenne ou élevée (plus de 5 L à la minute). La concentration de plomb est déterminée par la moyenne des résultats obtenus des deux échantillons.

3.1.2 Surveillance des écoles, des résidences à logements multiples et des grands immeubles

Dans les écoles et les garderies, il est recommandé de surveiller la teneur en plomb total au moins une fois par année, à chaque fontaine d’eau potable ou à chaque robinet d’eau froide où l’eau est utilisée pour la consommation ou la préparation d’aliments. L’échantillonnage devrait être fait entre les mois de juin et d’octobre, lorsque les immeubles sont pleinement occupés et fonctionnels; afin de mesurer les niveaux d’exposition typique, il est recommandé de le faire soit en juin, soit en octobre dans les écoles. La fréquence d’échantillonnage pourrait être diminuée si les sources de plomb ont été identifiées et résolues.

Dans des immeubles à logements multiples (c.-à-d. plus de six résidences) ou les grands édifices, il est recommandé de surveiller la teneur en plomb total, dans la période indiquée par l’agence réglementaire, à chaque fontaine d’eau potable ou à chaque robinet d’eau froide où l’eau est utilisée pour la consommation ou la préparation d’aliments. Dans le cas de l’échantillonnage des immeubles à logements multiples, la priorité doit être accordée aux sites dont la présence de plomb dans les entrées de service, en partie ou en totalité, est connue ou soupçonnée. Le protocole d’échantillonnage qui suit est recommandé pour ces sites de façon à recenser les expositions typiques, notamment l’exposition possible au plomb particulier.

Il convient de procéder à un échantillonnage aléatoire en prélevant un échantillon aux fontaines d’eau potable ou aux robinets d’eau froide où l’eau est utilisée pour la consommation ou la préparation des aliments, sans purge préalable ni période de stagnation. On préleve deux échantillons de 125 mL, de préférence dans des flacons à échantillons à grande ouverture, à un débit moyen à élevé, sans retirer l’aérature. Un délai d’attente d’au moins 16 heures après acidification par une solution d’acide nitrique à 2 % est requis avant de pouvoir procéder à l’analyse. Chaque échantillon doit être bien mélange avant l’analyse à l’aide d’une méthode appropriée (voir la section 6.0). La concentration de plomb est déterminée par la moyenne des résultats obtenus des deux échantillons.

Le plan d’échantillonnage destiné aux écoles et aux garderies doit tenir compte du fait qu’un grand nombre d’occupants de ces immeubles sont les plus vulnérables aux effets indésirables de l’exposition au plomb sur la santé. Par conséquent, les plans d’échantillonnage de
ces installations doivent accorder la priorité aux fontaines d’eau potable et aux robinets d’eau froide utilisés pour la consommation ou la préparation des aliments plutôt qu’aux sorties d’eau moins souvent utilisées. Dans d’autres types d’immeubles, les plans d’échantillonnage devraient également cibler les fontaines et les sorties d’eau froide utilisées pour la consommation ou la préparation des aliments, mais le nombre de sites échantillonnés devrait être fondé sur la taille de l’immeuble et le nombre de personnes qui l’occupent.
# CDW Membership List - Liste des Membres du CEP

## Voting Members – Membres Votants

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<td><strong>Quebec</strong></td>
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<td>Email: <a href="mailto:david.fishwick@gov.bc.ca">david.fishwick@gov.bc.ca</a> Website: www2.gov.bc.ca/</td>
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<td></td>
</tr>
<tr>
<td>Yukon</td>
<td>Ms. Patricia Brooks, Drinking Water Program Coordinator Health and Social Services, Government of Yukon</td>
<td>2 Hospital Road Whitehorse, YT Y1A 3H8 Phone: 867 667-8351 Fax: 867 667-8322</td>
<td>Emergencies: 867 667-7244 NEEC: 867 667-7244</td>
<td>Email: <a href="mailto:pat.brooks@gov.yk.ca">pat.brooks@gov.yk.ca</a></td>
<td></td>
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<tr>
<td>Northwest Territories / Territoriales du Nord-Ouest</td>
<td>Mr. Peter Workman, Chief Environmental Health Officer Department of Health &amp; Social Services Government of the Northwest Territories</td>
<td>5015 - 49th Street, 5th Floor - NGB P.O. Box 1320 Yellowknife, NT X1A 2L9 Phone: 867 767-9066 ext. 49260 Fax: 867 669-7517</td>
<td>Emergencies: 867 920-8130 NEEC: 867 920-8130 Public Health Line: 867-920-8646</td>
<td>Email: <a href="mailto:peter_workman@gov.nt.ca">peter_workman@gov.nt.ca</a> Website: <a href="http://www.hss.gov.nt.ca">www.hss.gov.nt.ca</a></td>
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### Jurisdiction

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<th>Email / Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Michele LeBlanc-Havard, Environmental Health Specialist</td>
<td>Box 1000 Station 1000; 1107 Sivummut Bldg. Iqaluit, NU X0A 0H0</td>
<td>Phone: 867 975-5943 Fax: 867 975-5755</td>
<td>Emergencies: 867 222-0256 NEEC: 867 222-0256</td>
<td>Email: <a href="mailto:mleblanc-havard@gov.nu.ca">mleblanc-havard@gov.nu.ca</a> Website: <a href="http://www.gov.nu.ca">www.gov.nu.ca</a></td>
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<td>Government of Nunavut</td>
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### Canada

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<tbody>
<tr>
<td>Greg Carreau, Director Water &amp; Air Quality Bureau</td>
<td>269 Laurier Ave West A.L. 4903D Ottawa, ON K1A 0K9</td>
<td>Phone: 613 948-2568 Fax: 613 952-2574</td>
<td>Emergencies: 613 954-6651</td>
<td>Email: <a href="mailto:greg.carreau@canada.ca">greg.carreau@canada.ca</a> Website: <a href="http://www.hc-sc.gc.ca/ewh-semt/water-eau/index_e.htm">http://www.hc-sc.gc.ca/ewh-semt/water-eau/index_e.htm</a></td>
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<tr>
<td>Safe Environments Directorate</td>
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<tr>
<td>Healthy Environments &amp; Consumer Safety Branch, Health Canada</td>
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</tbody>
</table>

*Telephone number for emergencies ONLY that may impact drinking water quality (e.g., toxic chemical spill into source water). Numéro de téléphone à utiliser SEULMENT pour les urgences pouvant avoir des répercussions sur la qualité de l'eau potable (p.e., déversement de substances toxiques dans une eau d'approvisionnement).

**NEEC - Environment Canada's National Environmental Emergencies Centre. CNUE - Centre National des Urgences Environnementales.

### CDW Liaisons Members – Membres Liaisons du CEP

<table>
<thead>
<tr>
<th>Liaison</th>
<th>Member &amp; Affiliation</th>
<th>Address</th>
<th>Phone / FAX / Téléphone / Télécopieur</th>
<th>Emergencies* / NEEC** (24hr)</th>
<th>Email / Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment and Climate Change Canada</td>
<td>Philippa Cureton Science &amp; Risk Assessment Directorate Emerging Priorities Division National Guidelines and Standards Office Environment and Climate Change Canada</td>
<td>6th Floor Place Vincent Massey Annex 351 St-Joseph Blvd Gatineau, QC</td>
<td>Phone: 819 938-5078</td>
<td>NEEC:</td>
<td>Email: <a href="mailto:philippa.cureton@canada.ca">philippa.cureton@canada.ca</a></td>
</tr>
<tr>
<td>Environnement et changement climatique Canada</td>
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<th>Phone / FAX / Téléphone / Téléconceur</th>
<th>Emergencies* / NEEC** (24hr) Urgences* / CNUE (24 hrs)</th>
<th>Email / Website Courriel / Site Web</th>
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</thead>
<tbody>
<tr>
<td>CHE Committee</td>
<td>Mr. Peter Workman, Chief Environmental Health Officer Department of Health &amp; Social Services Government of the Northwest Territories</td>
<td>5015 - 49th Street, 5th Floor, NGB P.O. Box 1320 Yellowknife, NT., X1A 2L9</td>
<td>Phone: 867 767-9066 ext. 49260 Fax: 867 669-7517</td>
<td>Emergencies: 867 920-8130 NEEC: 867 920-8130 Health Line: 867-920-8646</td>
<td>Email: <a href="mailto:peter_workman@gov.nt.ca">peter_workman@gov.nt.ca</a> Website: <a href="http://www.hss.gov.nt.ca">www.hss.gov.nt.ca</a></td>
</tr>
<tr>
<td>FNIBH (ISC) DGSPN1 (SAC)</td>
<td>Mr. Xavier Redhead Public Health Engineering Section Environmental Public Health Division Drinking Water Safety Program First Nations and Inuit Health Branch, Indigenous Services, Indigenous Services Canada</td>
<td>Jeanne-Mance Building, 200 Eglington Driveway Tunney’s Pasture Ottawa, ON K1A 0K9</td>
<td>Phone: 613 355-5957 Fax: 613 952-8639</td>
<td>N/A</td>
<td>Email: <a href="mailto:xavier.redhead@canada.ca">xavier.redhead@canada.ca</a></td>
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<td>RPB (HC) BRP (SC)</td>
<td>Dr. Jing Chen Radiation Health Assessment Division Radiation Protection Bureau Healthy Environments &amp; Consumer Safety Branch Health Canada</td>
<td>Radiation Protection Building, Room 249 775 Brookfield Road Locator: 6302D Ottawa, ON K1A 1C1</td>
<td>Phone: 613 960 8235 Fax: 613 960-5604</td>
<td>N/A</td>
<td>Email: <a href="mailto:jing.chen2@canada.ca">jing.chen2@canada.ca</a></td>
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<tr>
<td>HFFB (HC) DGPSA (SC)</td>
<td>Diane Fournier, Senior Advisor Food Regulatory Program Food Directorate Health Products and Food Branch Health Canada</td>
<td>Banting Building A.L, 2203B Tunney’s Pasture Ottawa ON K1A 0K9</td>
<td>Phone: 613 957-1751 Fax: 613 941-6625</td>
<td>N/A</td>
<td>Email: <a href="mailto:diane.fournier@canada.ca">diane.fournier@canada.ca</a></td>
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<tr>
<td>EHSSRB (HC) HSRSF (SC)</td>
<td>Dr. Rocio Aranda-Rodriguez Exposure and Biomonitoring Division Environmental Health Science and Research Bureau Healthy Environments and Consumer Safety Branch Health Canada</td>
<td>Environmental Health Centre Room B-5 Tunney’s Pasture Ottawa ON K1A 0K9</td>
<td>Phone: 613 941-5423 Fax: 613 946-3573</td>
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<td>Email: <a href="mailto:rocio.aranda-rodriguez@canada.ca">rocio.aranda-rodriguez@canada.ca</a></td>
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TECHNICAL SECRETARIAT ADDRESS / ADRESSE DU SECRÉTARIAT TECHNIQUE

Health Canada
Santé Canada
Water & Air Quality Bureau, Safe Environments Directorate
Bureau de la qualité de l'eau et de l'air, Direction de la sécurité des milieux
Healthy Environments & Consumer Safety Branch, Health Canada
Santé environnementale et sécurité des consommateurs
269 Laurier Avenue West ave Laurier Ouest (A.1. / L.A. 4903D)
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Emergencies / Urgences (24hr): 613 954-6651
Email / Courriel : water_eau@Canada.ca
FAX / Télécopieur #: 613 952-2574

TECHNICAL SECRETARIAT MEMBERS / MEMBRES DU SECRÉTARIAT TECHNIQUE

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<thead>
<tr>
<th>Secretariat member / Membre du secrétariat</th>
<th>Phone / Téléphone</th>
<th>Email / Courriel (@Canada.ca)</th>
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<tr>
<td>Ms. Véronique Morisset, Manager, Water Quality Program Division</td>
<td>613 957-1506</td>
<td>veronique.morisset</td>
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<tr>
<td>Ms. France Lemieux, Head, Materials &amp; Treatment</td>
<td>613 941-3166</td>
<td>franc lemieux</td>
</tr>
<tr>
<td>Ms. Michèle Giddings, Manager, Water Quality and Science Division</td>
<td>613 952-2594</td>
<td>michele.giddings</td>
</tr>
<tr>
<td>Ms. Stéphanie McFadyen, Head, Microbiological Assessment</td>
<td>613 948-2416</td>
<td>stephanie.mcfadyen</td>
</tr>
<tr>
<td>Mr. Richard Carrier, Head, Chemical Assessment</td>
<td>613 946-7266</td>
<td>richard.carrier</td>
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<tr>
<td>Ms. Anne Vézina, CDW Coordinator</td>
<td>613 957-3130</td>
<td>anne.vezina</td>
</tr>
</tbody>
</table>
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, October 25, 2018 10:30 AM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Sam Ferris (sam.ferris@wsask.ca)
Cc: Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Sultan, Yasir (HC/SC)
Subject: FW: U.S. EPA Revised manual now available: 3Ts for Reducing Lead in Drinking Waterin Schools and Child Care Facilities

CDW folks,

For your information, a revised version of the 3Ts manual was recently published by the U.S. EPA (see email from France below).

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

From: Lemieux, France (HC/SC)
Sent: 2018-10-24 13:54
To: Vezina, Anne (HC/SC)
Subject: U.S. EPA Revised manual now available: 3Ts for Reducing Lead in Drinking Waterin Schools and Child Care Facilities

Hello Anne,

CDW members may be interested in the revised 3Ts manual recently published by the U.S. EPA.

Major differences in this new guidance are:

-no action level on which to base decisions; they recommend prioritizing remediation of fittings/fixtures that have the highest lead levels first
-the guidance now includes child care facilities (previous version only addressed schools)

The document can be found at the following URL: https://www.epa.gov/sites/production/files/2018-09/documents/final_revised_3ts_manual_508.pdf

France

France Lemieux, M. Eng.

Regulatory Policy and Risk Management Manager
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Gestionnaire, Politique réglementaire et gestion de risque
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Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Wednesday, December 19, 2018 11:08 AM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Philippe Cantin; Sam Ferris (sam.ferris@wsask.ca)
Cc: Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Sultan, Yasir (HC/SC)
Subject: Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water
Attachments:
9941846_001_EN_guide-evaluation-intervention revised-clean.docx

CDW folks,

As a follow-up action item from the last CDW meeting, attached is the document “Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water”. This is the document from Qc that we had translated. We did not do a full English editing and revision, and a few web links are not working, but at least you can have access to the information in your language.

This is our little Christmas present 😊
Enjoy!
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
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Health Canada
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If you wish to obtain a copy please contact the ATIPP Office at (709) 729-7072 or atippoffice@gov.nl.ca.
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Wednesday, December 19, 2018 2:53 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); Caroline Robert (Caroline.Robert@mddelcc.gouv.qc.ca); David Fishwick (David.Fishwick@gov.bc.ca); Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Philippe Cantin; Sam Ferris (sam.ferris@wsask.ca)
Cc: Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron, Richard (HC/SC); Enright, Wendy (HC/SC); Giddings, Michele (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Sultan, Yasir (HC/SC)

Subject: FW: Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water

CDW members,

For the document from Qc that we translated and shared with you – could you please make sure to not distribute outside of your department, to avoid confusion (this document has the same look as the Qc document).

Thank you!
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
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From: Caroline.Robert@environnement.gouv.qc.ca [mailto:Caroline.Robert@environnement.gouv.qc.ca]
Sent: 2018-12-19 12:35
To: Vezina, Anne (HC/SC)
Subject: RE: Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water

Bonjour Anne,
Intéressant, merci de l’initiative !
Il serait souhaitable de préciser aux membres que le document ne devrait pas circuler hors de leurs organisations sous cette forme, car compte tenu qu’il a le même « look » que notre document officiel, il pourrait y avoir confusion s’il était distribué plus largement...

Merci
Caroline

De : Vezina, Anne (HC/SC) [mailto:anne.vezina@canada.ca]
Envoyé : 19 décembre 2018 09:38
À : Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; Robert, Caroline
<Caroline.Robert@environnement.gouv.qc.ca>; David Fishwick (David.Fishwick@gov.bc.ca)
<David.Fishwick@gov.bc.ca>; Deshpande, Satish (MECP) <Satish.Deshpande@ontario.ca>; Dr Lyndon Gyurek
<Lyndon.Gyurek@gov.ab.ca>; George Somers (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Haseen Khan
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(Peter_Workman@gov.nt.ca) <Peter_Workman@gov.nt.ca>; Cantin, Philippe
<Philippe.Cantin@environnement.gouv.qc.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>
Cc : Boucher, Tanya (HC/SC) <tanya.boucher@canada.ca>; Carreau, Greg (HC/SC) <greg.carreau@canada.ca>; Carrier,
Richard (HC/SC) <richard.carrier@canada.ca>; Charron, Richard (HC/SC) <richard.charron@canada.ca>; Enright, Wendy
(HC/SC) <wendy.enright@canada.ca>; Giddings, Michele (HC/SC) <michele.giddings@canada.ca>; Lemieux, France
(HC/SC) <france.lemieux@canada.ca>; McFadyen, Stephanie (HC/SC) <stephanie.mcfadyen@canada.ca>; Morisset,
Veronique (HC/SC) <veronique.morisset@canada.ca>; Sultan, Yasir (HC/SC) <yasir.sultan@canada.ca>
Objet : Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water

CDW folks,

As a follow-up action item from the last CDW meeting, attached is the document “Assessment and Action Guide for Monitoring Lead and Copper in Drinking Water”. This is the document from Qc that we had translated. We did not do a full English editing and revision, and a few web links are not working, but at least you can have access to the information in your language.

This is our little Christmas present 😊
Enjoy!
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordinatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Hi Philippe:

- Does your province or territory has rules, guidelines or program that ask for monitoring of lead at every taps of schools and daycare centers?

  Our (interim) guidelines say the following for screening schools:
  Survey and inventory the building to identify all locations in the building where drinking water is likely to be consumed.
  - Take a First Draw (FD) 250ml sample from each location after an 8 hour stagnation period.
  - In addition to those locations where drinking water is consumed, an additional fully flushed (FF) sample should be taken at a faucet near the water main to be representative of water from the water main.

  For details and context see appendix b of the following: https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/waterquality/how-drinking-water-is-protected-in-bc/interim_guideline_on_reducing_exposure_to_lead_through_drinking_water_july_2017.pdf

- Which ministry or department (environment, health, education, ...) is in charge of this activity?

  Ministry of Health makes recommendation to Ministry of Education, Ministry of Education tells schools they need to do it, and our Health Authorities advise them on how to do it.

- For how long have these requirements/recommendations/programs been in effect?

  2017

Dave

David Fishwick | Drinking Water Manager | Ministry of Health | PO BOX 9646  Stn Prov Govt
Victoria BC | V8W 9P1

Phone: (250) 952-1110 | Fax: (250) 952-1713 | E-mail: david.fishwick@gov.bc.ca

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Could you please respond to Philippe’s questions on lead below?

He would need your input by Feb 14th, if possible. You can also send him a Valentine at the same time if you feel like it 😊

Anne

Anne Vézina  
Coordinator of the F/P/T Committee on Drinking Water  
Coordonnatrice du Comité F/P/T sur l’eau potable  
Water and Air Quality Bureau  
Bureau de la qualité de l’eau et de l’air  
Safe Environments Directorate  
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From: Philippe.Cantin@environnement.gouv.qc.ca  
Sent: 2019-02-07 12:27  
To: Vézina, Anne (HC/SC)  
Cc: Caroline.Robert@environnement.gouv.qc.ca; Anouka.Bolduc@environnement.gouv.qc.ca  
Subject: Short questions on lead management in provinces and territories

Dear Anne,

Could you please forward these questions to the FPT committee members and request the answers for St. Valentine’s Day?

- Does your province or territory has rules, guidelines or program that ask for monitoring of lead at every taps of schools and daycare centers?
- Which ministry or department (environment, health, education, ...) is in charge of this activity?
- For how long have these requirements/recommendations/programs been in effect?

We have information from Québec Public Health that such initiatives have been implemented in Ontario, New-Brunswick and British-Columbia.

Thank you in advance for your answers,

Philippe Cantin, Ph.D., microbiologiste

Chef de la division de l’eau potable  
Direction de l’eau potable et des eaux souterraines  
Ministère de l’Environnement et de la Lutte contre les Changements climatiques
Bonjour Philippe;

Please see my response embedded in your original email. Merci.

Haseen

Haseen Khan, P.Eng.
Director
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Department of Municipal Affairs and Environment
4th Floor, Confederation Building West Block
PO Box 8700
St. John's NL Canada A1B 4J6
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www.mae.gov.nl.ca/waterres/

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, February 7, 2019 3:11 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; David Fishwick (David.Fishwick@gov.bc.ca)
<David.Fishwick@gov.bc.ca>; Deshpande, Satish (MECP) <Satish.Deshpande@ontario.ca>; Dr Lyndon Gyurek
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<hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Philip@gov.mb.ca)
<Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>;
Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter_Workman@gov.nt.ca)
<Peter_Workman@gov.nt.ca>; Philippe Cantin <Philippe.Cantin@mddelcc.gouv.qc.ca>; Redhead, Xavier (HC/SC)
<xavier.redhead@canada.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>
Cc: Boucher, Tanya (HC/SC) <tanya.boucher@canada.ca>; Carreau, Greg (HC/SC) <greg.carreau@canada.ca>; Carrier,
Richard (HC/SC) <richard.carrier@canada.ca>; Charron, Richard (HC/SC) <richard.charron@canada.ca>; Lemieux, France
(HC/SC) <france.lemieux@canada.ca>; McFadyen, Stephanie (HC/SC) <stephanie.mcfadyen@canada.ca>; Morisset,
Veronique (HC/SC) <veronique.morisset@canada.ca>; Mortimer, Joyce (HC/SC) <joyce.mortimer@canada.ca>; Sultan,
Yasir (HC/SC) <yasir.sultan@canada.ca>
Subject: FW: Short questions on lead management in provinces and territories

CDW members,

Could you please respond to Philippe’s questions on lead below?

He would need your input by Feb 14th, if possible. You can also send him a Valentine at the same time if you feel like it 😊
Dear Anne,

Could you please forward these questions to the FPT committee members and request the answers for St. Valentine’s Day?

- Does your province or territory has rules, guidelines or program that ask for monitoring of lead at every taps of schools and daycare centers?

>>No but these facilities are monitored under special monitoring programs once every five years.<<
- Which ministry or department (environment, health, education, ...) is in charge of this activity?

>>Ministry of Municipal Affairs and Environment and Service NL<<
- For how long have these requirements/recommendations/programs been in effect?

>>Not applicable<<

We have information from Québec Public Health that such initiatives have been implemented in Ontario, New-Brunswick and British-Columbia.

Thank you in advance for your answers,

Philippe Cantin, Ph.D., microbiologiste

Chef de la division de l’eau potable
Direction de l’eau potable et des eaux souterraines
Ministère de l’Environnement et de la Lutte contre les Changements climatiques
675, boulevard René-Lévesque Est, 8e étage, boîte 42
Québec (Québec) G1R 5V7
Tél. : 418 521-3885 poste 4012
Thank you very much Haseen for your fast answer.

Have a nice weekend!

Philippe Cantin

De : Khan, Haseen [mailto:hkhan@gov.nl.ca]
Envoyé : 8 février 2019 13:56
À : 'Vezina, Anne (HC/SC)' <anne.vezina@canada.ca>; Cantin, Philippe <Philippe.Cantin@environnement.gouv.qc.ca>
Objet : RE: Short questions on lead management in provinces and territories

Bonjour Philippe;

Please see my response embedded in your original email. Merci.

Haseen

Haseen Khan, P.Eng.
Director
Water Resources Management Division
Department of Municipal Affairs and Environment
4th Floor, Confederation Building West Block
PO Box 8700
St. John's NL Canada A1B 4J6
T (709) 729-2563
F (709) 729-0320
E hkhan@gov.nl.ca
www.mae.gov.nl.ca/waterres/

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, February 7, 2019 3:11 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca) <POLEGAAR@gov.ns.ca>; David Fishwick (David.Fishwick@gov.bc.ca)
<David.Fishwick@gov.bc.ca>; Deshpande, Satish (MECP) <Satish.Deshpande@ontario.ca>; Dr Lyndon Gyurek
<Lyndon.Gyurek@gov.ab.ca>; George Somers (ghsomers@gov.pe.ca) <ghsomers@gov.pe.ca>; Khan, Haseen
<hkhan@gov.nl.ca>; Kevin Gould (Kevin.Gould@gnb.ca) <Kevin.Gould@gnb.ca>; Kim Philip (Kim.Philip@gov.mb.ca)
<Kim.Philip@gov.mb.ca>; Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA) <MLeBlanc-Havard@GOV.NU.CA>
; Pat Brooks (pat.brooks@gov.yk.ca) <pat.brooks@gov.yk.ca>; Peter Workman (Peter_Workman@gov.nt.ca)
<Peter_Workman@gov.nt.ca>; Philippe Cantin <Philippe.Cantin@mddelcc.gouv.qc.ca>; Redhead, Xavier (HC/SC)
<xavier.redhead@canada.ca>; Sam Ferris (sam.ferris@wsask.ca) <sam.ferris@wsask.ca>
Cc: Boucher, Tanya (HC/SC) <tanya.boucher@canada.ca>; Carreau, Greg (HC/SC) <greg.carreau@canada.ca>; Carrier, Richard (HC/SC) <richard.carrier@canada.ca>; Charron, Richard (HC/SC) <richard.charron@canada.ca>; Lemieux, France (HC/SC) <france.lemieux@canada.ca>; McFadyen, Stephanie (HC/SC) <stephanie.mcfadyen@canada.ca>; Morisset, Veronique (HC/SC) <veronique.morisset@canada.ca>; Mortimer, Joyce (HC/SC) <joyce.mortimer@canada.ca>; Sultan, Yasir (HC/SC) <yasir.sultan@canada.ca>
Subject: FW: Short questions on lead management in provinces and territories

CDW members,

Could you please respond to Philippe’s questions on lead below?

He would need your input by Feb 14th, if possible. You can also send him a Valentine at the same time if you feel like it 😊

Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574

From: Philippe.Cantin@environnement.gouv.qc.ca [mailto:Philippe.Cantin@environnement.gouv.qc.ca]
Sent: 2019-02-07 12:27
To: Vezina, Anne (HC/SC)
Cc: Caroline.Robert@environnement.gouv.qc.ca; Anouka.Bolduc@environnement.gouv.qc.ca
Subject: Short questions on lead management in provinces and territories

Dear Anne,

Could you please forward these questions to the FPT committee members and request the answers for St. Valentine’s Day?

- Does your province or territory has rules, guidelines or program that ask for monitoring of lead at every taps of schools and daycare centers?

>>No but these facilities are monitored under special monitoring programs once every five years.<<
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We have information from Québec Public Health that such initiatives have been implemented in Ontario, New-Brunswick and British-Columbia.

Thank you in advance for your answers,

Philippe Cantin, Ph.D., microbiologiste
Chef de la division de l’eau potable
Direction de l’eau potable et des eaux souterraines
Ministère de l’Environnement et de la Lutte contre les Changements climatiques
675, boulevard René-Lévesque Est, 8e étage, boîte 42
Québec (Québec) G1R 5V7
Tél. : 418 521-3885 poste 4012

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Hi Anne;

Similar to Manganese is there Q and A on lead as well?? Thanks.

Have a nice weekend.

Haseen Khan, P.Eng.
Director
Water Resources Management Division
Department of Municipal Affairs and Environment
4th Floor, Confederation Building West Block
PO Box 8700
St. John’s NL Canada A1B 4J6
T (709) 729-2563
F (709) 729-0320
E hkhan@gov.nl.ca
www.mae.gov.nl.ca/waterres/
From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, February 14, 2019 12:16 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); David Fishwick (David.Fishwick@gov.bc.ca);
    Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca);
    Khan, Haseen; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca);
    Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca);
    Peter Workman (Peter_Workman@gov.nt.ca); Philippe Cantin; Redhead, Xavier (HC/SC);
    Sam Ferris (sam.ferris@wsask.ca)
Cc: Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron,
    Richard (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset,
    Veronique (HC/SC); Mortimer, Joyce (HC/SC); Sultan, Yasir (HC/SC)
Subject: Lead and manganese publication

CDW folks,

For your information, the publication date for the guideline technical document on lead will be March 2\textsuperscript{nd}. We will send the Qs and As on lead shortly.

There are some delays with the document on manganese so we will have to publish this one after lead, at the end of March/beginning of April.

Cheers,
Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l'eau potable
Water and Air Quality Bureau
Bureau de la qualité de l'eau et de l'air
Safe Environments Directorate
Direction de la sécurité des milieux
Health Canada
Santé Canada
Ottawa
Tel.: (613) 957-3130
Fax: (613) 952-2574
Haskell, Ellen

From: Vezina, Anne (HC/SC) <anne.vezina@canada.ca>
Sent: Thursday, March 07, 2019 5:05 PM
To: Angelina Polegato (POLEGAAR@gov.ns.ca); David Fishwick (David.Fishwick@gov.bc.ca); Deshpande, Satish (MECP); Dr Lyndon Gyurek; George Somers (ghsomers@gov.pe.ca); Khan, Haseen; Housseini; Kevin Gould (Kevin.Gould@gnb.ca); Kim Philip (Kim.Philip@gov.mb.ca); Michele LeBlanc-Havard (MLeBlanc-Havard@GOV.NU.CA); Pat Brooks (pat.brooks@gov.yk.ca); Peter Workman (Peter_Workman@gov.nt.ca); Philippe Cantin; Redhead, Xavier (SAC/ISC); Sam Ferris (sam.ferris@wsask.ca)
Cc: Boucher, Tanya (HC/SC); Carreau, Greg (HC/SC); Carrier, Richard (HC/SC); Charron, Richard (HC/SC); Lefebvre, Marie-Pierre (HC/SC); Lemieux, France (HC/SC); McFadyen, Stephanie (HC/SC); Morisset, Veronique (HC/SC); Mortimer, Joyce (HC/SC); Sultan, Yasir (HC/SC)

Subject: Links for lead tomorrow

CDW folks,

So this is happening! Lead will be posted at 9 am tomorrow!

These are the links for when it goes live:

The profile page: (an introductory landing page for the publication)

The Guideline Technical Document (the main document – web and PDF)

and;


Anne

Anne Vézina
Coordinator of the F/P/T Committee on Drinking Water
Coordonnatrice du Comité F/P/T sur l’eau potable
Water and Air Quality Bureau
Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate
Hi all...a new guideline for lead in drinking water has been posted on the Health Canada website. As expected, the MAC has been lowered to 0.005 mg/L (5 µg/L) as total lead. There are fact sheets available on the website.

Overview
“This guideline technical document reviews and assesses all identified health risks associated with lead in drinking water. It assesses new studies and approaches and takes into consideration the availability and limitations of appropriate treatment and analytical technologies. The maximum acceptable concentration (MAC) for total lead in drinking water is 0.005 mg/L (5 µg/L), based on a sample of water taken at the tap and using the appropriate protocol for the type of building being sampled. As current science cannot identify a level under which lead is no longer associated with adverse health effects, lead concentrations in drinking water should be kept as low as reasonably achievable (ALARA).”

The Canadian Water and Wastewater Association (CWWA) has also prepared a fact sheet and speaking notes for their municipal water professionals in Canada which is available at: http://www.cwwa.ca/lead2019_e.asp

Bill
William (Bill) B. Anderson, Ph.D.
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200 University Ave. W.
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519-888-4567 ext. 33265
wbanderson@uwaterloo.ca
http://waterstp.ca/
The guideline technical document on lead in drinking water is now available on Health Canada’s web site at the following address:


Questions or comments? Contact us at HC.water-eau.SC@canada.ca

To unsubscribe, please visit this website: www.canada.ca/en/health-canada/services/environmental-workplace-health/water-quality/mailing-list-water-quality-environmental-workplace-health.html

Veuillez vous abonner pour être avisé des mises à jour en français : www.canada.ca/fr/sante-canada/services/sante-environnement-milieu-travail/qualite-eau/liste-distribution-qualite-eau-sante-environnement-milieu-travail.html

Water and Air Quality Bureau / Bureau de la qualité de l’eau et de l’air
Safe Environments Directorate, HECSB / Direction de la sécurité des milieux/DGSESC
Health Canada / Santé Canada
269 Laurier Ave West, AL 4903D, Ottawa, Ont.
HC.water-eau.SC@canada.ca
Exciting times!

Lyndon

On Mar 7, 2019, at 1:35 PM, Vezina, Anne (HC/SC) <anne.vezina@canada.ca> wrote:

CDW folks,

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The Guideline Technical Document (the main document – web and PDF)

and;