

Lead & Copper Rule

Long Term Revision

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Agenda

- Health Effects
- Rule History
- Current Rule
- Proposed Revision
- Impact to Bellevue

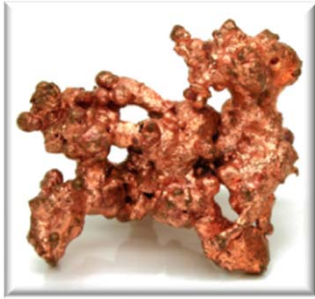


Health Effect - Lead

- Toxic to human health
- Persistent & bioaccumulate
- Health impact at lower exposure level for children
- Central & peripheral nervous system
- Lowered IQ and attention disorders
- Interfere production of red blood cells

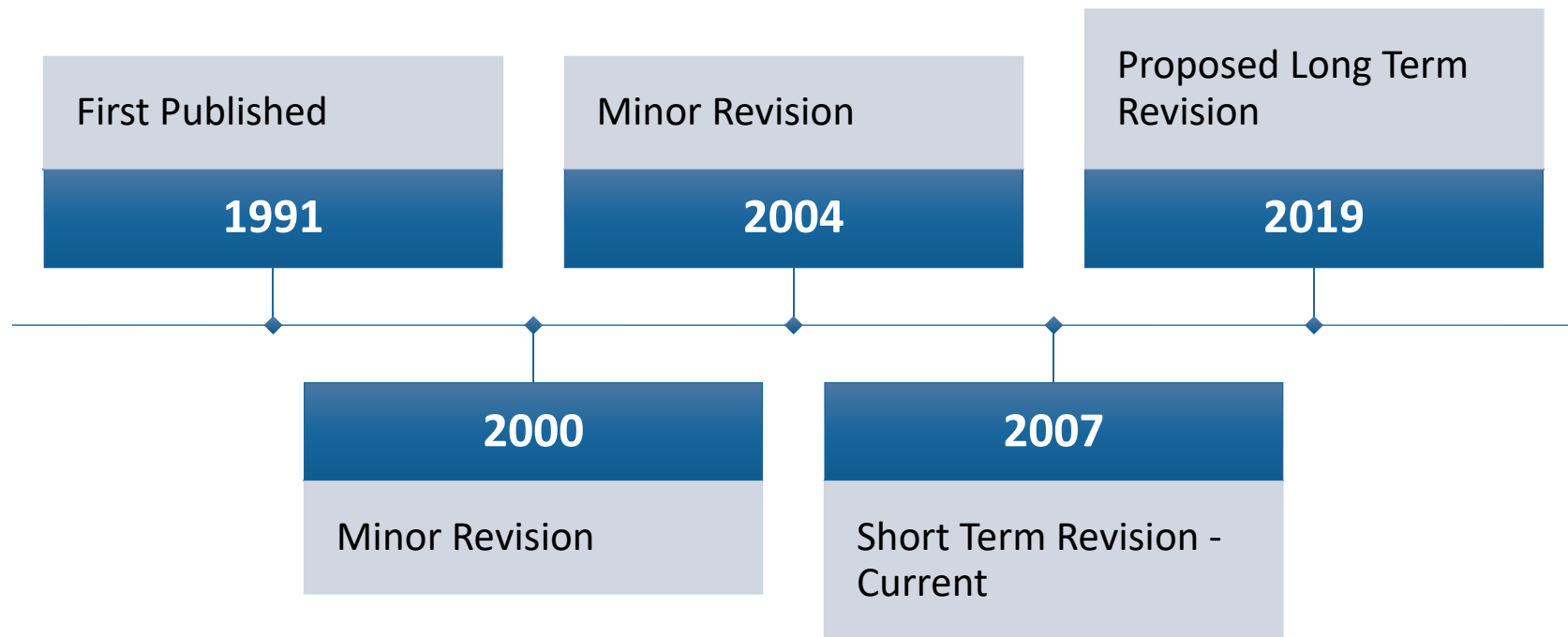


Health Effect - Copper



- Bioaccumulate
- Gastrointestinal distress
- Liver damage
- Neurological and/or Psychiatric symptoms

Rule History



Current Rule

2007

Short Term Revision



Current Rule

- Target homes built prior to 1986
- Action level of 15 ppb
- 50 samples required every 3 years
- Bellevue has been in compliance
- School sampling not required
- Last sampled in 2017
- Next sampling in 2020
- Investigative sampling of 2016



2016 Investigative Sampling

- 200+ homes contacted
- 32 homes agree to participate
- Samples taken at water meter and kitchen faucet
- Sequential sampling conducted at 4 homes



Proposed Rule

2019 Long Term Revision



Proposed Revision Timeline



- 10/10/19: pre-publication
- 11/13/19 – 01/13/20: comment period
- 2020 estimated completion

6 Areas of Focus

- 1) IDENTIFYING AREAS MOST IMPACTED
 - PUBLIC LEAD SERVICE LINE INVENTORY
 - ANNUAL UPDATE
 - SAMPLE SITE CRITERIA
- 2) STRENGTHENING TREATMENT REQUIREMENTS
- 3) REPLACE LEAD SERVICE LINES
 - LSL REPLACEMENT PROGRAM IF EXCEED TRIGGER LEVEL OF 10 PPB
 - LEAD SERVICE LINE REPLACEMENT PLAN



6 Areas of Focus

4) INCREASING SAMPLING RELIABILITY

- WIDE-MOUTH SAMPLE BOTTLES
- NO PRE-STAGNATION FLUSHING

5) IMPROVING RISK COMMUNICATION

- UPDATED HEALTH EFFECT
LANGUAGE FOR CCR
- 24-HOUR NOTIFICATION IF EXCEED
ACTION LEVEL



6 Areas of Focus

6) PROTECTING CHILDREN IN SCHOOLS AND DAYCARES

- 20% OF K-12 SCHOOLS AND DAYCARE ANNUALLY
- RESULTS NOT INCLUDED IN 90TH PERCENTILE CALCULATION
- PROVIDE RESULTS AND PUBLIC EDUCATION
- RESULTS TO DOH AND KING COUNTY HEALTH
- EXCLUDES FACILITIES BUILT AFTER 1/1/2014
- CUSTOMER MAY REFUSE ACCESS/SAMPLING



Proposed Rule

Impact to Bellevue



Impact to Bellevue

- Sampling protocol
- Public notification
- School and daycare sampling
 - Only structures built prior to 2014
 - 170 child daycare centers at 2 samples each
 - 16 public schools at 5 samples each
 - 10 private schools at 5 samples each
 - Once every 5 year, 20% each year

