

Application for Waiver from Construction Standards for Public Water Systems

Water System Name	Portland Water Bureau	PWS ID	00657
Project or Facility	N Schmeer Rd	County	Multnomah
Need for waiver identified:	<input type="checkbox"/> Water System Survey	Date of Survey	
	<input type="checkbox"/> Plan Review # Exempt		

Construction standard requested to be waived: OAR 333-061-0050 (10)(a) new main disinfection sample distance

As provided under OAR 333-061-0055, the Department may grant waivers from the construction standards prescribed by these rules:

- (a) When it is demonstrated to the satisfaction of the Department that strict compliance with the rule would be highly burdensome or impractical due to special conditions or causes; and
- (b) When the public or private interest in the granting of the waiver is found by the Department to clearly outweigh the interest of the application of uniform rules; and
- (c) When alternate measures are provided which, in the opinion of the Department, will provide adequate protection to the health and safety of the public including the ability to produce water which does not exceed the maximum contaminant levels listed in rule 333-061-0030.

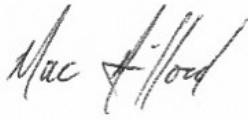
Describe situation that conflicts with the standard. A new 16" water main that is 1,700 lf will be installed in N Schmeer Road. The pipe will be earthquake-resilient ductile iron pipe.

Disinfection of new pipe should follow AWWA Standard C651, which calls for bacteriological testing every 1,200 lf. However installation of a mid-length sampling location will reduce the pipe's seismic resilience. Sampling is proposed to happen only at the end of the 1,700 lf length.

Describe why meeting the standard is highly burdensome or impractical. Sampling at the 1,200 lf length would require installation of a blow off which in turn requires being restrained, which would then create rigidity in the pipe. The seismic resilience depends on having flexibility and fewer points of restraint. Installing a mid-length sample location would reduce the seismic resilience.

Describe proposed alternate measure that provide adequate protection to public health and safety. Sequential sampling will be completed from the end of the pipe. After completion of disinfection and flushing, the sample port at the end of the pipe will be continuously flowed. One sample will be taken immediately to represent one half of the pipe. Then it will continue to be flushed so that plug flow will pass through the pipe, and after a specific time and flow rate a second sample will be taken that represents the other half of the pipe. That will constitute the first verification sample round. The pipe will then be held stagnant for at least 16 hours. A second set of samples will then be taken following the same procedure. The pipe may be placed

in service if all four samples are clean. This is equivalent to the normal standard of taking two samples from two locations.



9-23-24

Signature

Date

Name Mac Gifford
Address 1900 N Interstate Ave
City/State/Zip Portland, OR 97227
Telephone Number 503-823-1507

Attach plans of proposed waiver request or additional supporting information and

- Email your regulator; or
- Email dws.planreview@dhsosha.state.or.us; or
- Mail:
Oregon Health Authority
Drinking Water Services #640
PO Box 14450
Portland, OR 97293-0450

Comments:

Attachments: Improvement Plans for N Schmeer Rd

OHA Use Only

Waiver ID 497-2024

Entered into waiver database

Plan Review Coordinator's notes: Alternate measure appears to protect public health.

After due consideration the above requested waiver from the construction standards of OAR 333-061-0050 is hereby:

Approved Comments: Maintaining seismic integrity is a priority and their sampling is an adequate alternative.
 Denied



9/24/2024

Drinking Water Regional Manager Signature
Oregon Health Authority

Date

Waiver database updated