

Application for Waiver from Construction Standards for Public Water Systems

Water System Name Rockwood Water P.U.D PWS ID 00668
Project or Facility Cascade Well 8 County Multnomah
Need for waiver identified: Water System Survey Date of Survey
 Plan Review # 161-2019

Construction standard requested to be waived: OAR 333-061-0050 (2)(a)(B, D and E)

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.

(OAR 333-061-050(2)(a)(B and D): The well is located on the northeast portion of a facility owned by the District. The District sited the well at this location because of the need for a source in this pressure zone and existing storage and distribution infrastructure including a suitably-sized transmission main. The site is bordered to the north, west and south by single-family residences. NE 141st Avenue borders the eastern side of the site. The dimensions of the site, and locations of existing facilities preclude meeting proscribed radius-of-ownership setback requirements by approximately 20 feet on a northern corner and on the east side of the site. The attached site location map shows the indicated properties and setbacks relative to the well location.

OAR 333-061-0050 (2)(a)(E): Because of the limited space at the site and the needed infrastructure to support the well and treatment plant, the proscribed setback of 50 feet from a line to be connected to the sanitary sewer in the NE 141st Avenue right-of-way also cannot be met. The line will be located under the driveway between the well and existing pump station and will be used to transmit backwash water from treatment plant filters and washdown water from floor drains in the treatment plant building to the sanitary line. Sewage will not be conveyed in the line because restroom facilities will not be installed on site. The attached site development plan shows the indicated line relative to the well location

Describe why meeting the standard is highly burdensome or impractical.

Meeting the standard on this site is not possible because of the presence of existing and needed water system infrastructure, and space limitations.

Describe proposed alternate measure that provide adequate protection to public health and safety.

The land use, well construction and hydrostratigraphic framework provide ample protection from potential contaminant sources within the proscribed setbacks as summarized below:


As part of construction standard, public or private roadways may be allowed within 100 feet of a confined well so long that the well is protected against contamination from surface runoff or hazardous liquid may be spilled on the roadway and is protected from unauthorized access. The attached site plan with elevations shows that the ground surface slopes from the well towards the north and towards NE 141st Ave, bordering the east side of the site. The well will be located within a building and the building slab elevation will be approximately 1.5 feet above the street elevation. The surface casing of the well will extend approximately 3 feet above slab and will be encased in a concrete pump pedestal. Site grading and the slab and pedestal will be sufficient to protect the well from surface runoff from the street and adjacent areas.

With the inclusion of the NE 141st Avenue right-of-way within the radius-of-control, only a small piece of land not owned by the District is within 100 feet of the well. This piece of land is a portion of a single-family residential property located 80 feet northwest of the well.

The well is completed in a confined aquifer and with a fully-penetrating sanitary seal extending from ground surface to a depth of 1,000 feet below ground surface. Two major confining units separate the uppermost unconfined flood sediment aquifer from the source aquifer (SGA).

Filter backwash and washdown water from the treatment plant will be hardpiped within 50 feet of the well head to the sanitary sewer in the street

The risk to the well from a leak negligible based on the nature of the discharges, well construction and hydrogeologic framework.



Signature

03/19/2024
Date

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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

Address 650 NE Holladay Street, Suite 900
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Comments:

Attachments:

OHA Use Only

Waiver ID 474-2024

Entered into waiver database

Plan Review Coordinator's notes: Well is properly constructed in a confined aquifer. Note that road conflict should not be considered to be part of this waiver as it is waivable under OAR 2)(a)(D).

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

Approved Comments:

Denied

Kari Salis

April 2, 2024

Drinking Water Regional Manager Signature
Oregon Health Authority

Date

Waiver database updated