



Oregon

Tina Kotek, Governor

Oregon Water Resources Dept
725 Summer St NE, Ste A Salem, OR 97301
Ph (503) 986-0900, Fax (503) 986-0904
www.oregon.gov/owrd

January 23, 2023

ERIC SCHNEIDER WWC #1988
SCHNEIDER WATER SERVICES
21881 RIVER RD NE
ST. PAUL, OR 97137

FINAL ORDER

Dear Mr. Schneider:

The Special Standards Request Form you submitted for landowner: City of Gresham, Start Card number: 1057726, is hereby approved for the following: You may construct this water supply well as described on your Special Standards Request Form dated January 18, 2023. All other well construction standards must be adhered to. A copy of your Special Standards Request Form is enclosed.

Verbal approval of this Special Standards Request was provided on January 20, 2023.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 302-8618, or by e-mail at Tommy.K.Laird@water.oregon.gov.

Sincerely,

Tommy Laird
Well Construction Program Coordinator
Well Construction Section

Enclosure

cc: Ryan Pillsbury, Well Inspector, Northwest Region

This is a FINAL ORDER other than contested case. This final order is subject to judicial review under ORS 183.484. Any petition for judicial review of the final order must be filed within the time specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem Oregon 97301-1266
 (503) 986-0900
 www.wrd.state.or.us

Special Standards Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 1/18/2023 Oral approval date (if applicable): _____

Bonded Well Constructor (name, license #, and mailing address): Eric Schneider, 1988

21881 River RD NE, St. Paul OR 97137

(1) Location of Well: NW 1/4 NW 1/4 Tax lot 900 Section 3,
 Township 1 S, Range 3 E, Multnomah County
 Address at well site: 22514 SE Stark St, Gresham OR 97030

(2) Start Card Number(s)(for work to be done): 1057726

(3) Name and Address of Land Owner: City of Gresham, 1333 NW Eastman Parkway

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
Over 100' in all directions

(5) The unusual site conditions which necessitate this request: _____
See Attached

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)
See Attached

- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)

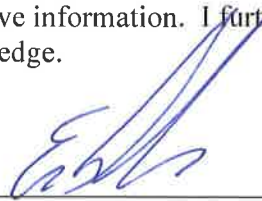
See Attached

PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: _____



(5) The unusual site conditions which necessitate this request:

During the installation of the seal of the 24" production casing for Cascade well #6 the surface casing was sealed in. That casing is 30" diameter and extends down to 92' bgs from the surface. The process for sealing the well started with placing using method B using 12 yards of neat cement. We proceeded to work on finishing the seal using method C. During the installation of the tremie pipe we did encounter bridging starting at 135 but were able to advance the pipe down to the initial seal that was installed at ~620'.

It was discovered after the fourth 6-yard truckload that the cement came up higher then calculated. It was determined that the bridging of the gravel formations had impacted the calculated volume of the neat cement required to seal that section of the well. In addition, this well was drilled using engineered fluid and the fluid level was full during casing installation, as well as during the sealing process. Engineered fluid/mud drilled holes typically take less than calculated volumes due to the filtrate layer that is created as part of the drilling process. It also does not allow cement to migrate out into the formation.

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well:

We propose to over-drill the 30" casing using a ~36" overshot down to a depth of 18'. We will then install neat cement using method C from 18' to the surface while extracting the 36" casing. We will pump neat cement between the 30" and the 24" to ground level. The 30" will be cut off at ground level and a steel plate will be welded between the 30" and the 24". This will be done after the well has been completed in case we are required to excavate down to remove boulders that were originally encountered at the ~5' area.

(7) Diagram showing the pertinent features of the proposed well design and construction

Gresham Well 6 Proposed Completion

