



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

July 29, 2024

STEVEN STADELI WWC/MWC #688
WESTERBERG DRILLING INC
PO BOX 1228
MOLALLA, OR 97038

FINAL ORDER

Dear Mr. Stadel:

The after-the-fact Special Standards Request Form you submitted for owner: Collin Randall, Start Card number 1072134, is hereby approved for the following: You may construct this water supply well, placing a lower split seal in unconsolidated formations, as described on your Special Standards Request Form dated July 26, 2024. All other well construction standards apply as required under Oregon Administrative Rules 690-210. A copy of your Special Standards Request Form is enclosed.

OAR 690-200-0021 requires the well constructor to request and receive Special Standards approval prior to completion of the well. Please note, in the future, **no Special Standards will be granted for after-the fact request.**

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 or geotechnical boring 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 or geotechnical boring 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) 991-2470, or by e-mail at Kristopher.R.Byrd@water.oregon.gov.

Sincerely,

Kristopher R. Byrd, Manager
Well Construction Section

enclosure

cc: Tommy Laird, Well Construction Program Coordinator
Ryan Pillsbury, Well Inspector, Northwest Region
Josh Lucas, 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.



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 Well Construction Section Manager or Well Construction Compliance Coordinator.

Date of request: 7-26-24 **Oral approval date (if applicable):** _____

Bonded Well Constructor (name, license #, and mailing address): _____

Steven N. Stadel #688, Westerberg Drilling inc, PO Box 1228, Molalla, OR 97038

(1) Location of Well: NW $\frac{1}{4}$ NE $\frac{1}{4}$ Tax Lot: 100 Section: 28

Township: 2 S Range: 3 E County: Clackamas

Latitude: 45.371380 Longitude: -122.453170

(2) Special Standards Number (OWRD Assigned): _____

(3) Start Card Number(s) (for work to be done): 1072134

(4) Well Label Identification Number (if assigned): L151665

(5) Associated Well Report Numbers (if applicable): Clac78724

(6) Name and Address of Landowner: Collin Randall

16268 S Babler Rd., Oregon City, OR 97045

(7) Address of Project/Well Site: same

(8) Type of Work (New, Deepening, Alteration, Abandonment): new

(9) Distance to Nearest Septic Tank, Drain Field, Closed Sewage Line, and Closed Storm

Drainage System (if water supply well): 100'+

(10) The Unusual Site Conditions Which Necessitate this Request: _____

Need to install a lower casing seal around inner casing into alluvial formation

(11) The Proposed Construction Methods the Bonded Well Constructor Believes will be

Adequate for this Well (attach additional pages if needed): _____

The upper alluvial formation from 207-240 had a swl of 40 ft & the lower alluvial formation had a

swl of 166 ft. We sealed thru the confining unit that was separating these two water bearing zones.

(12) Attach a Site Map Showing the Relationship of the Well(s) to Any Existing Septic Tank, Drainfield, Closed Sewage Line, and Closed Storm Drainage System if the Request is to Place a Water Supply Well Within the Minimum Setbacks Detailed in OAR 690-210-0030.

(13) If the Request is to Abandon a Monitoring Well In-Place, Then the Most Current Water Quality Analytical Data Must be Provided.

(14) Monitoring Well Special Standard Requests Must Provide Oregon Department of Environmental Quality Site or Facility Identification Number and No Further Action (NFA) Decision (if applicable).

(15) Diagram showing the pertinent features of the proposed well design and construction (attach additional pages if need):

(10) The Unusual Site Conditions Which Necessitate this Request: _____

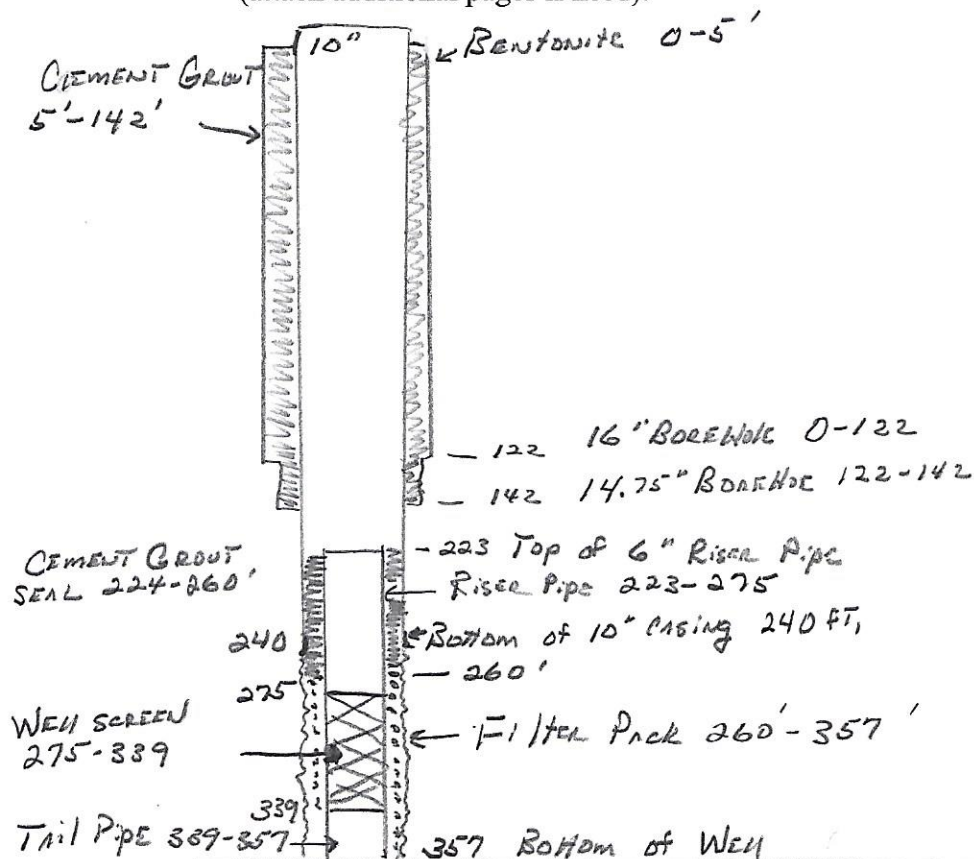
(11) The Proposed Construction Methods the Bonded Well Constructor Believes will be Adequate for this Well (attach additional pages if needed): _____

(12) Attach a Site Map Showing the Relationship of the Well(s) to Any Existing Septic Tank, Drainfield, Closed Sewage Line, and Closed Storm Drainage System if the Request is to Place a Water Supply Well Within the Minimum Setbacks Detailed in OAR 690-210-0030.

(13) If the Request is to Abandon a Monitoring Well In-Place, Then the Most Current Water Quality Analytical Data Must be Provided.

(14) Monitoring Well Special Standard Requests Must Provide Oregon Department of Environmental Quality Site or Facility Identification Number and No Further Action (NFA) Decision (if applicable).

(15) Diagram showing the pertinent features of the proposed well design and construction (attach additional pages if need):



PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing special construction standards, 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 groundwater 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 groundwater 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 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: Steven N. Stedele



Steve Stadel <westerbergdrill@gmail.com>

Well construction question for Permit G-16882

5 messages

phggek at bctonline.com <phggek@bctonline.com>
To: IVERSON <Justin.T.IVERSON@water.oregon.gov>
Cc: randallcer@gmail.com, Steve Stadel <westerbergdrill@gmail.com>

Mon, Jan 22, 2024 at 6:11 PM

Justin,

Permit G-16882 authorizes three wells, one existing (CLAC 66847 - Well 3), and two proposed Wells (1 and 2). The permit holder is in the process of constructing proposed Well 1, which is located about 300 feet away from Well 3 and starts at a ground surface elevation about 10 feet lower. I have attached copies of the application map, the well log for CLAC 66847, and the rough log for Well 1 for your review.

The well boring has been completed at a depth of 358 feet, compared to the depth of 261 feet in CLAC 66847. One water-bearing zone was encountered in the Well 1 boring between the depths of 207 ft and 240 ft. This WB zone seems to correspond with the WB zone in CLAC 66847 between the depths of 168 ft bgs and 261 ft bgs. The static water level for this WB zone was reported to be about 40 feet bgs. Another, more productive WB zone was encountered in the Well 1 boring between the depths of 275 ft bgs and 330 ft bgs. The static water level for this WB zone was reported to be about 166 feet bgs.

The only well construction condition in the permit is a statement that "The wells shall produce ground water only from the alluvial ground water reservoir." The driller does not think he can complete the well to develop both WB zones and still meet minimum well construction standards, because of the significant difference in static water levels for the two WB zones. The permit holder would prefer to construct the well to develop the deeper WB zone, since it is the more productive of the two. The question is, would a well constructed to develop the deeper WB zone comply with the conditions in the permit.

Although a well so constructed would meet the permit condition of producing water "from the alluvial ground water reservoir," its construction would be different than what was originally proposed in the application. I should add that we did include remarks in the application stating that the well construction specifications were estimates and actual construction could vary depending on conditions encountered, and the objective was to construct wells to develop from the alluvial terrace deposits.

Further construction on this new well is on hold until we get a response from you, so we ask that you take a look at this and let us know as soon as you can.

Regards,

Greg Kupillas
Pacific Hydro-Geology Inc.
503.939.3164

IVERSON Justin T * WRD <Justin.T.IVERSON@water.oregon.gov>

Mon, Jan 29, 2024 at 10:10 PM

To: "phggek at bctonline.com" <phggek@bctonline.com>, ORLOWSKI Dennis R * WRD <Dennis.R.ORLOWSKI@water.oregon.gov>
Cc: "randallcer@gmail.com" <randallcer@gmail.com>, Steve Stadel <westerbergdrill@gmail.com>

Greg,

Apologies I didn't see the last sentence re time sensitivity until tonight. I'll discuss with Dennis tomorrow and we'll get back to you as soon as possible.

Regards,

Justin Iverson, RG

GROUNDWATER SECTION MANAGER

Oregon Water Resources Department

Cell: 503-302-9728

Justin.T.Iverson@water.oregon.gov

Pronouns: He/Him

Please Note: under Oregon law, messages to and from this e-mail address may be made available to the public

We're hiring! See the full list of OWRD recruitments [here](#). Search for "owrd".

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phggek at bctonline.com <phggek@bctonline.com>
To: IVERSON <Justin.T.IVERSON@water.oregon.gov>
Cc: ORLOWSKI <Dennis.R.ORLOWSKI@water.oregon.gov>, randallcer <randallcer@gmail.com>, Steve Stadel <westerbergdrill@gmail.com>

Tue, Jan 30, 2024 at 6:44 AM

OK, thanks for letting me know.

Greg

From: "IVERSON" <Justin.T.IVERSON@water.oregon.gov>
To: "Greg Kupillas" <phggek@bctonline.com>, "ORLOWSKI" <Dennis.R.ORLOWSKI@water.oregon.gov>
Cc: "randallcer" <randallcer@gmail.com>, "Steve Stadel" <westerbergdrill@gmail.com>
Sent: Monday, January 29, 2024 10:10:03 PM
Subject: RE: Well construction question for Permit G-16882

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ORLOWSKI Dennis R * WRD <Dennis.R.ORLOWSKI@water.oregon.gov>

Wed, Jan 31, 2024 at 10:40 AM

To: "phggek at bctonline.com" <phggek@bctonline.com>
Cc: "randallcer@gmail.com" <randallcer@gmail.com>, Steve Stadel <westerbergdrill@gmail.com>, IVERSON Justin T * WRD <Justin.T.IVERSON@water.oregon.gov>, FERREIRA Gabriela R * WRD <Gabriela.R.FERREIRA@water.oregon.gov>

Greg,

This location is just south of where the USGS delineated the southernmost boundary of the Portland Basin alluvial aquifer system, which is *roughly* the Clackamas River (USGS WRD 90-4196). The Portland Basin alluvial aquifers north of this *approximate* hydrostratigraphic boundary are indeed discretely different aquifers, and OWRD treats them as such, particularly in the Sandy-Boring GWLA (OWRD's Shallow Troutdale aquifer = USGS' Troutdale Gravel Aquifer (TGA), OWRD's Deep Troutdale Aquifer = USGS' Troutdale Sandstone Aquifer (TSA)).

The permit G-16882 location is transitional between the discrete PDX Basin aquifers to the north and the *generally* more singular Willamette Alluvial Aquifer system to the south of this area. It appears that the TSA, Confining Unit 2, and the Sand and Gravel Aquifer (SGA) are indeed present at the permit G-16882 location; furthermore, it looks like CLAC 66847 might be completed in the TSA, and the proposed Well 1 likely extends deeper into the SGA, based primarily on the significant head difference in the two wells.

However, as you pointed out, permit G-16882 stipulates the authorized source as generally being the "...alluvial groundwater system." In other words, the permit does not make reference to the discretely-different PDX Basin alluvial aquifers, likely because this area is outside of the area where the USGS has formally mapped those aquifers. Therefore, **OWRD approves the completion of Well 1 such that it will obtain groundwater primarily from the water-bearing deposits that are present between 275 and 330 ft bls, because those deposits are part of "alluvial groundwater system" authorized by permit G-16882. This approval assumes that Well 1 will be sealed below the shallower water-bearing deposits present between 207 and 240 ft bls.**

Please note, however, that for future new groundwater applications and transfers in this and other similar areas, OWRD plans to assign *separate* POA reference water levels, as applicable. For example, if permit G-16882 were a new application, CLAC 66847 would have a specific reference level (presumably corresponding to the TSA) and Well 1 would get its own much different reference level (presumably corresponding to the SGA). These different reference levels would also apply to any new wells proposed for addition to existing water rights, i.e., for transfers we would evaluate the appropriate reference level and corresponding water level conditions. And, in the case of a water right with multiple reference levels, if an authorized POA were deepened such that it were to access a deeper portion of the alluvial aquifer system with a distinctly different head regime (like that in Well 1), then that deepened well would be assigned the reference level corresponding to the deeper portion of the aquifer.

Please contact me if you have any other questions.

Thanks,
Dennis

[Dennis Orlowski, RG](#)

Hydrogeologist, Groundwater Section

725 Summer Street NE, Suite A Salem, OR 97301 | Cell: 971-283-6429



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phggek at bctonline.com <phggek@bctonline.com>

Wed, Jan 31, 2024 at 2:30 PM

To: ORLOWSKI <Dennis.R.ORLOWSKI@water.oregon.gov>

Cc: randallcer <randallcer@gmail.com>, Steve Stadel <westerbergdrill@gmail.com>, IVERSON <Justin.T.IVERSON@water.oregon.gov>, FERREIRA <Gabriela.R.FERREIRA@water.oregon.gov>

Dennis,

Thank you for your response.

Regards,

Greg Kupillas
Pacific Hydro-Geology Inc.
503.939.3167

From: "ORLOWSKI" <Dennis.R.ORLOWSKI@water.oregon.gov>

To: "Greg Kupillas" <phggek@bctonline.com>

Cc: "randallcer" <randallcer@gmail.com>, "Steve Stadel" <westerbergdrill@gmail.com>, "IVERSON" <Justin.T.IVERSON@water.oregon.gov>, "FERREIRA" <Gabriela.R.FERREIRA@water.oregon.gov>

Sent: Wednesday, January 31, 2024 10:40:06 AM

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