

STATE OF OREGON

COUNTY OF HARNEY

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

BO THORENFELDT
885 HILLSBOROUGH BLVD
HILLSBOROUGH, CA 94010

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-17562

SOURCE OF WATER: WELL 3, WELL 4, WELL 5, WELL 6, WELL 7, WELL 8, WELL 9, WELL 10, WELL 11, WELL 12, WELL 13, WELL 14, AND WELL 15 IN ROCK CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 2416.0 ACRES; SUPPLEMENTAL IRRIGATION OF 511.3 ACRES

MAXIMUM RATE: 20.0 CUBIC FEET PER SECOND (CFS), FURTHER LIMITED TO 6.39 CFS FOR SUPPLEMENTAL IRRIGATION OF 511.3 ACRES

PERIOD OF USE: SEE TABLE BELOW

DATE OF PRIORITY: JUNE 11, 2012

WELL LOCATIONS:

WELL 3 - NE $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 29, T22S, R33E, W.M.; 4150 FEET NORTH AND 640 FEET WEST FROM SE CORNER, SECTION 29

WELL 4 - NE $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 20, T22S, R33E, W.M.; 6940 FEET NORTH AND 680 FEET WEST FROM SE CORNER, SECTION 29

WELL 5 - NE $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 20, T22S, R33E, W.M.; 9560 FEET NORTH AND 620 FEET WEST FROM SE CORNER, SECTION 29

WELL 6 - SW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 30, T22S, R33E, W.M.; 3900 FEET NORTH AND 6700 FEET WEST FROM SE CORNER, SECTION 29

WELL 7 - NW $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 30, T22S, R33E, W.M.; 1420 FEET NORTH AND 6720 FEET WEST FROM SE CORNER, SECTION 29

WELL 8 - NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 29, T22S, R33E, W.M.; 1420 FEET NORTH AND 4050 FEET WEST FROM SE CORNER, SECTION 29

WELL 9 - SW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 31, T22S, R33E, W.M.; 1920 FEET SOUTH AND 7850 FEET WEST FROM SE CORNER, SECTION 29

WELL 10 - SW $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 32, T22S, R33E, W.M.; 1950 FEET SOUTH AND 5180 FEET WEST FROM SE CORNER, SECTION 29

WELL 11 - SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 32, T22S, R33E, W.M.; 1960 FEET SOUTH AND 2760 FEET WEST FROM SE CORNER, SECTION 29

WELL 12 - NW $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 31, T22S, R33E, W.M.; 3940 FEET SOUTH AND 7800 FEET WEST FROM SE CORNER, SECTION 29

WELL 13 - NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 32, T22S, R33E, W.M.; 3940 FEET SOUTH AND 5160 FEET WEST FROM SE CORNER, SECTION 29

WELL 14 - NW $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 32, T22S, R33E, W.M.; 3940 FEET SOUTH AND 2480 FEET WEST FROM SE CORNER, SECTION 29

WELL 15 - SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 28, T22S, R33E, W.M.; 2740 FEET NORTH AND 1980 FEET EAST FROM SE CORNER, SECTION 29

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

Q-Q	Acres	Twp	Rng	Mer	Sec	PRIMARY IRRIGATION SEASON	SUPPLEMENTAL IRRIGATION SEASON
NENE	10.4	22S	33E	WM	20	3/1 through 10/31	
NENE	29.6	22S	33E	WM	20	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWNE	40.0	22S	33E	WM	20	3/1 through 10/31	
SENE	5.8	22S	33E	WM	20	3/1 through 10/31	
SENE	34.2	22S	33E	WM	20	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NESE	1.6	22S	33E	WM	20	3/1 through 10/31	
NESE	38.4	22S	33E	WM	20	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SESE	39.9	22S	33E	WM	20	3/1 through 3/31 and	4/1 through 10/1

Q-Q	Acres	Twp	Rng	Mer	Sec	PRIMARY IRRIGATION SEASON	SUPPLEMENTAL IRRIGATION SEASON
NWNW	26.8	22S	33E	WM	21	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWNW	19.6	22S	33E	WM	21	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NWSW	16.4	22S	33E	WM	21	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWSW	7.3	22S	33E	WM	21	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NENW	40.0	22S	33E	WM	28	3/1 through 10/31	
NWNW	11.0	22S	33E	WM	28	3/1 through 10/31	
NWNW	28.3	22S	33E	WM	28	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWNW	0.6	22S	33E	WM	28	3/1 through 10/31	
SWNW	35.6	22S	33E	WM	28	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SENW	40.0	22S	33E	WM	28	3/1 through 10/31	
NESW	40.0	22S	33E	WM	28	3/1 through 10/31	
NWSW	34.4	22S	33E	WM	28	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWSW	10.0	22S	33E	WM	28	3/1 through 10/31	
SWSW	27.6	22S	33E	WM	28	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SESW	40.0	22S	33E	WM	28	3/1 through 10/31	
NENE	0.7	22S	33E	WM	29	3/1 through 10/31	
NENE	37.2	22S	33E	WM	29	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NWNE	40.0	22S	33E	WM	29	3/1 through 10/31	
SWNE	39.1	22S	33E	WM	29	3/1 through 10/31	
SWNE	0.9	22S	33E	WM	29	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SENE	40.0	22S	33E	WM	29	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NENW	9.0	22S	33E	WM	29	3/1 through 10/31	
SWNW	38.0	22S	33E	WM	29	3/1 through 10/31	
SENW	39.4	22S	33E	WM	29	3/1 through 10/31	

Q-Q	Acres	Twp	Rng	Mer	Sec	PRIMARY IRRIGATION SEASON	SUPPLEMENTAL IRRIGATION SEASON
NESW	40.0	22S	33E	WM	29	3/1 through 10/31	
NWSW	40.0	22S	33E	WM	29	3/1 through 10/31	
SWSW	40.0	22S	33E	WM	29	3/1 through 10/31	
SESW	40.0	22S	33E	WM	29	3/1 through 10/31	
NESE	6.6	22S	33E	WM	29	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NWSE	28.0	22S	33E	WM	29	3/1 through 10/31	
NWSE	0.3	22S	33E	WM	29	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWSE	10.8	22S	33E	WM	29	3/1 through 10/31	
NENE	0.4	22S	33E	WM	30	3/1 through 10/31	
NWNE	25.7	22S	33E	WM	30	3/1 through 10/31	
SWNE	40.0	22S	33E	WM	30	3/1 through 10/31	
SENE	38.2	22S	33E	WM	30	3/1 through 10/31	
NESE	40.0	22S	33E	WM	30	3/1 through 10/31	
NWSE	40.0	22S	33E	WM	30	3/1 through 10/31	
SWSE	40.0	22S	33E	WM	30	3/1 through 10/31	
SESE	40.0	22S	33E	WM	30	3/1 through 10/31	
NENE	40.0	22S	33E	WM	31	3/1 through 10/31	
NWNE	40.0	22S	33E	WM	31	3/1 through 10/31	
SWNE	40.0	22S	33E	WM	31	3/1 through 10/31	
SENE	40.0	22S	33E	WM	31	3/1 through 10/31	
NENW	40.0	22S	33E	WM	31	3/1 through 10/31	
NWNW	40.0	22S	33E	WM	31	3/1 through 10/31	
SWNW	40.0	22S	33E	WM	31	3/1 through 10/31	
SENW	40.0	22S	33E	WM	31	3/1 through 10/31	
NESW	38.0	22S	33E	WM	31	3/1 through 10/31	
NWSW	38.0	22S	33E	WM	31	3/1 through 10/31	
SWSW	40.0	22S	33E	WM	31	3/1 through 10/31	
SESW	40.0	22S	33E	WM	31	3/1 through 10/31	

Q-Q	Acres	Twp	Rng	Mer	Sec	PRIMARY IRRIGATION SEASON	SUPPLEMENTAL IRRIGATION SEASON
NESE	38.0	22S	33E	WM	31	3/1 through 10/31	
NWSE	38.0	22S	33E	WM	31	3/1 through 10/31	
SWSE	40.0	22S	33E	WM	31	3/1 through 10/31	
SESE	40.0	22S	33E	WM	31	3/1 through 10/31	
SWNE	11.0	22S	33E	WM	32	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SENE	11.2	22S	33E	WM	32	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NENW	40.0	22S	33E	WM	32	3/1 through 10/31	
NWNW	40.0	22S	33E	WM	32	3/1 through 10/31	
SWNW	40.0	22S	33E	WM	32	3/1 through 10/31	
SENW	40.0	22S	33E	WM	32	3/1 through 10/31	
NESW	38.0	22S	33E	WM	32	3/1 through 10/31	
NWSW	38.0	22S	33E	WM	32	3/1 through 10/31	
SWSW	40.0	22S	33E	WM	32	3/1 through 10/31	
SESW	40.0	22S	33E	WM	32	3/1 through 10/31	
NESE	4.0	22S	33E	WM	32	3/1 through 10/31	
NESE	34.0	22S	33E	WM	32	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
NWSE	4.0	22S	33E	WM	32	3/1 through 10/31	
NWSE	32.0	22S	33E	WM	32	3/1 through 3/31 and 10/2 through 10/31	4/1 through 10/1
SWSE	40.0	22S	33E	WM	32	3/1 through 10/31	
SESE	40.0	22S	33E	WM	32	3/1 through 10/31	

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter or other suitable measuring device as approved by the Director at each point of appropriation. The permittee shall maintain the meter or measuring device in good working order.
- B. The permittee shall keep a complete record of the amount of water diverted each month, and shall submit a report which includes the recorded water-use measurements to the Department

annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.

C. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where any meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

The Department requires the water user to obtain, from a qualified individual (see below), and report annual static water levels for each well on the permit. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

The permittee shall report an initial March static water-level measurement once well construction is complete and annual measurements thereafter. Annual measurements are required whether or not the well is used. The first annual measurement will establish a reference level against which future measurements will be compared. However, the Director may establish the reference level based on an analysis of other water-level data. The Director may require the user to obtain and report additional water levels each year if more data are needed to evaluate the aquifer system.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board. Measurements shall be submitted on forms provided by, or specified by, the Department. Measurements shall be made with equipment that is accurate to at least the standards specified in OAR 690-217-0045. The Department requires the individual performing the measurement to:

- A. Associate each measurement with an owner's well name or number and a Department well log ID; and
- B. Report water levels to at least the nearest tenth of a foot as depth-to-water below ground surface; and
- C. Specify the method of measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

- A. Annual water-level measurements reveal an average water-level decline of three or more feet per year for five consecutive years; or
- B. Annual water-level measurements reveal a water-level decline of 15 or more feet in fewer than five consecutive years; or
- C. Annual water-level measurements reveal a water-level decline of 25 or more feet; or
- D. Hydraulic interference leads to a decline of 25 or more feet in any neighboring well with senior priority.

The period of restricted use shall continue until the water level rises above the decline level which triggered the action or the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or causing substantial interference with senior water rights. The water user shall not allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

The well(s) shall be continuously cased and continuously sealed to a minimum depth of 100 feet below land surface. The well(s) may not be completed in such a manner to allow ground water to be developed from shallower water-bearing zones. If during well construction, it becomes apparent that the well can be constructed to eliminate interference with nearby shallow wells or hydraulically connected streams in a manner other than specified in this permit, the permittee can contact the Department Hydrogeologist for this permit or the Ground Water/Hydrology Section Manager to request approval of such construction. The request shall be in writing, and shall include a rough well log and a proposed construction design for approval by the Department. The request can be approved only if it is received and reviewed prior to placement of any permanent casing and sealing material. If the well is constructed first and then the request made, the requested modification will not be approved. If approved, the new well depth and construction specifications will be incorporated into any certificate issued for this permit.

The permittee shall construct one minimum six-inch diameter observation well to penetrate the same aquifer as the production wells. The observation well shall meet the Department's minimum well construction standards, and shall be cased and sealed to the same depth as the production wells. The observation well shall be constructed at a location approved by the Department prior to construction. The landowner or permittee shall provide Department staff access to the observation well to install and maintain continuous water-level monitoring equipment. The observation well shall not be used for any other purpose

while the Department is monitoring water levels. The observation well shall be completed prior to any groundwater use under the terms of any groundwater permit issued. The Department may consider the use of an existing well that meets all the criteria described above.

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

Dedicated Measuring Tube: Wells with pumps shall be equipped with an unobstructed, dedicated measuring tube pursuant to figure 200-5 in OAR 690-200.

STANDARD CONDITIONS

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The well(s) shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

If the riparian area is disturbed in the process of developing a point of appropriation, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For

The use may be restricted if the quality of downstream waters decreases to the point that those waters no longer meet state or federal water quality standards due to reduced flows.

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Completion of construction and application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after making beneficial use of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued May 2 , 2013



E. Timothy Wallin, Water Rights Program Manager
for Phillip C. Ward, Director