

TO: Water Rights Section JUNE 7, 2001  
 FROM: Groundwater/Hydrology Section IVAN GALL / GRANTS PASS *IKB*  
 Reviewer's Name  
 SUBJECT: Application G- 15333

**GROUNDWATER/SURFACE WATER CONSIDERATIONS**

1. PER THE \_\_\_\_\_ Basin rules, one or more of the proposed POA's is/is not within \_\_\_\_\_ feet/mile of a surface water source ( \_\_\_\_\_ ) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
  - a. \_\_\_\_\_ will have the potential for substantial interference with the nearest surface water source, namely \_\_\_\_\_; or
  - b.  will not have the potential for substantial interference with the nearest surface water source, namely JACKSON CREEK; or
  - c. \_\_\_\_\_ will, if properly conditioned, adequately protect the surface water from interference:
    - i. \_\_\_\_\_ The permit should contain condition #(s) \_\_\_\_\_; or
    - ii. \_\_\_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;
    - iii. \_\_\_\_\_ The permit should be conditioned as indicated in item 4 below; or
  - d. \_\_\_\_\_ will, with well reconstruction, adequately protect the surface water from substantial interference.

**GROUNDWATER AVAILABILITY CONSIDERATIONS**

3. BASED UPON available data, I have determined that groundwater for the proposed use
  - a. \_\_\_\_\_ will likely be available in the amount requested without injury to prior rights and/or is within the capacity of the resource; or
  - b. \_\_\_\_\_ will not be available in the amount requested without injury to prior rights and/or is within the capacity of the resource; or
  - c.  will, if properly conditioned, avoid injury to existing rights or to the groundwater resource:
    - i.  The permit should contain condition #(s) SEE ATTACHED REVIEW;
    - ii. \_\_\_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;
    - iii. \_\_\_\_\_ The permit should be conditioned as indicated in item 4 below; or
4.
  - a. \_\_\_\_\_ THE PERMIT should allow groundwater production from no deeper than \_\_\_\_\_ feet below land surface;
  - b. \_\_\_\_\_ The permit should allow groundwater production from no shallower than \_\_\_\_\_ feet below land surface;
  - c. \_\_\_\_\_ The permit should allow groundwater production only from the \_\_\_\_\_ groundwater reservoir between approximately \_\_\_\_\_ feet and \_\_\_\_\_ feet below land surface;
  - d. \_\_\_\_\_ Well reconstruction is necessary to accomplish one or more of the above conditions.
  - e. \_\_\_\_\_ One or more POA's commingle two or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

**REMARKS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

G-15333

(Well Construction Considerations on Reverse Side)

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WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
- a.  review of the well log;
  - b.  field inspection by \_\_\_\_\_;
  - c.  report of CWRE \_\_\_\_\_;
  - d.  other: (specify) \_\_\_\_\_
6. THE WELL construction deficiency:
- a.  constitutes a health threat under Division 200 rules;
  - b.  commingles water from more than one groundwater reservoir;
  - c.  permits the loss of artesian head;
  - d.  permits the de-watering of one or more groundwater reservoirs;
  - e.  other: (specify) \_\_\_\_\_
7. THE WELL construction deficiency is described as follows: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
8. THE WELL
- a.  was constructed according to the standards in effect at the time of original construction or most recent modification.
  - b.  was not constructed according to the standards in effect at the time of original construction or most recent modification.
  - c.  I do not know if it met standards at the time of construction.

**RECOMMENDATION:**

- A.  I recommend including the following condition in the permit: "No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B.  I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C.  REFER this review to Enforcement Section for concurrence.

**THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL**

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit.

\_\_\_\_\_, 200\_\_\_\_  
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: \_\_\_\_\_

\_\_\_\_\_, 200\_\_\_\_  
(Signature)



**Water Right Conditions  
Tracking Slip**

*Groundwater/Hydrology Section*

FILE # G - 15333

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 37S/2W-17

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

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Reviewer: \_\_\_\_\_



## WATER RESOURCES DEPARTMENT MEMORANDUM

**Date:** June 7, 2001  
**To:** Groundwater/Hydrology  
**From:** Ivan Gall – Southwest Region Hydrogeologist, Grants Pass  
**Subject:** GW Application **G-15333**

**Applicant:** Edward and Paula Savage  
**Seek:** 0.0382 CFS; 7.6 acre-feet for 3.04 acres  
**From:** Two wells, Jackson Creek sub-basin, Rogue Basin  
**Proposed Use:** Irrigation (April 1 – October 31) of landscaping  
**Quad Name:** Medford West

**Well # 1** ***(no log available)***  
37S/02W-17db (NW of the SE), Tax Lot 4200 Jackson County  
Well elevation at site is ~1,780 feet (NGVD 1929)  
Well is ~1,500 feet south and 1,600 feet north of two unnamed seasonal streams  
Well is ~ 3000 feet west of the Phoenix Canal  
Well is 175-180 feet deep, cased to 22 feet  
SWL: 5-25-1995 63.5 feet 3-12-98 48.3 feet (from flow tests)  
Well is 1,825 West and 21 South from the east ¼ corner of Section 17 (from application map)

**Well # 2** ***(no log available)***  
37S/02W-17db (NW of the SE), Tax Lot 4200 Jackson County  
Well elevation at site is ~1,780 feet (NGVD 1929)  
Well is ~1,500 feet south and 1,600 feet north of two unnamed seasonal streams  
Well is ~ 3000 feet west of the Phoenix Canal  
Well is 130-135 feet deep, cased to ~25 feet  
SWL: 11-18-98 62.5 feet (from flow tests)  
Well is 1,867 feet West and 225 feet South from the East ¼ corner of Section 17 (from application map)

### **Evaluation Summary**

The subject property is located at 2543 Old Military Road, Central Point. The two wells are located approximately 1,500 feet south of an unnamed seasonal creek, and 1,600 feet north of an



unnamed seasonal creek. Topography is steeper to the west, sloping east towards the Bear Creek Valley floor. Land use is scattered homes with small agriculture, and the Rogue River National Forest nursery is approximately one mile east of the site.

The applicant is applying for a primary right of 0.0382 cfs [17.1 gallons per minute (gpm)] with a total duty of 7.6 acre-feet for seasonal irrigation of 3.04 acres of landscaping.

The bedrock geology in the area is composed of diorite and granodiorite intrusive rocks, with a variable thickness of overlying weathered material. Approximately one-half mile east of the site, marine sediments of the Cretaceous Hornbrook Formation crop out. Based on the depths of the two wells, and nearby well logs (JACK 34627, 50103, 53470, and 53883), it is likely that both wells obtain water from the fractured bedrock. Because of the bedrock source of ground water, the limited use, and the distance to any stream, it is unlikely that substantial interference with surface water flows would occur from the proposed use of the two wells. Both seasonal, unnamed streams north and south of the two wells generally run only during the wet season following large rain events because of the small size of each drainage.

GRID lists approximately 121 well logs for section 17. Of these, 16 well logs are listed as deepening. The deepening occurred primarily during the 80's. Yields on approximately one-half of the wells are less than 5 gpm, with most wells in the section having a yield less than 10 gpm. Most wells are in excess of 200 feet deep.

No long-term water level data from state observation wells exist for this area.

**Recommendation:**

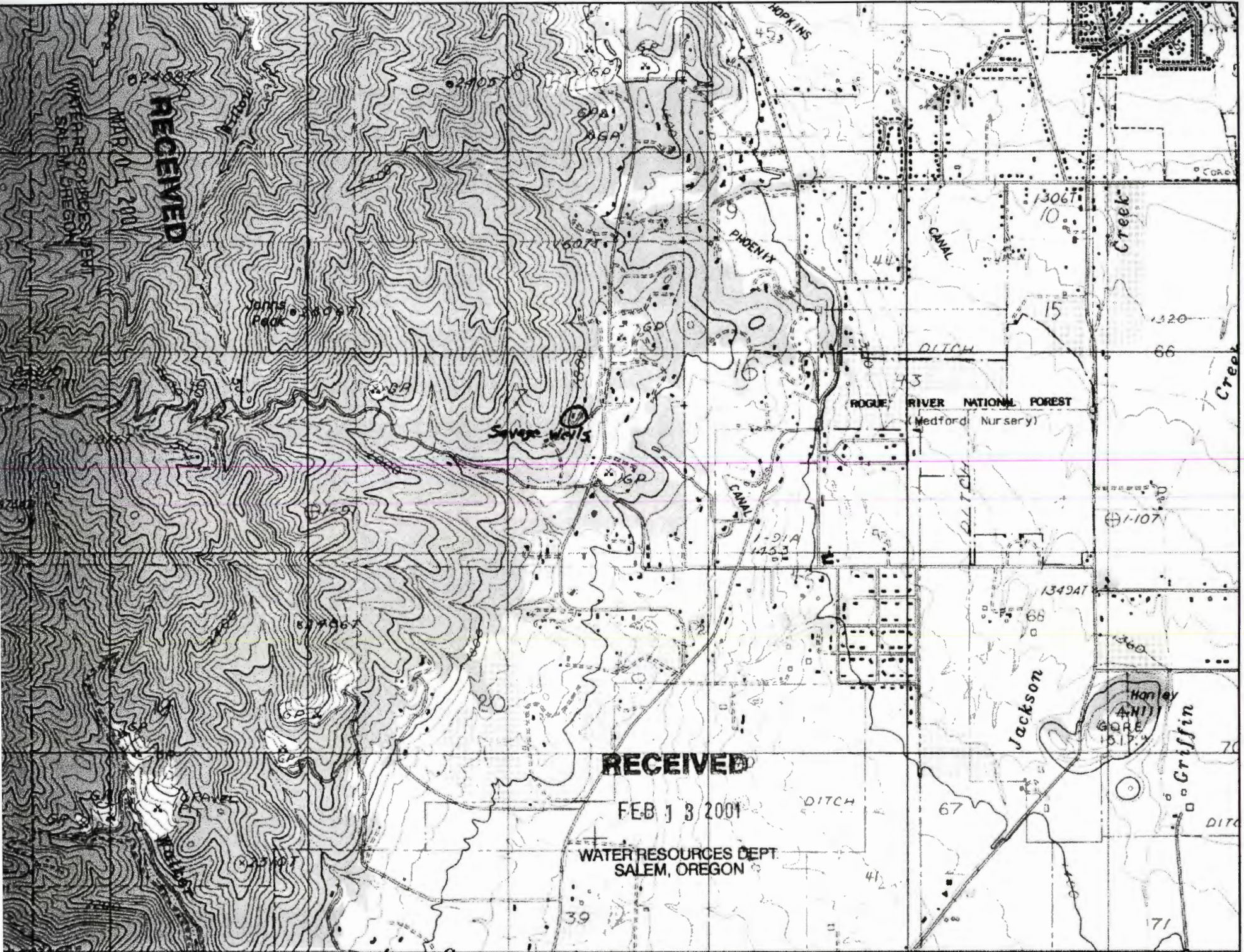
*The ground water resource appears to be available at this location to support seasonal irrigation of 3.04 acres without the potential for substantial interference with nearby users or nearby surface water. The permit should include the following conditions:*

*7B, 7F*

*Additionally, a condition shall be added to specify the two sources of appropriated ground water. For example, "Ground water shall be appropriated from only two drilled wells: Well #1 located approximately 1,825 feet west and 21 feet south of, and Well #2 located approximately 1,867 feet west and 225 feet south of, the east ¼ corner of section 17. Both Wells #1 and #2 are to be completed in the fractured bedrock aquifer. For Well #1, total well depth shall not exceed 180 feet below ground surface, and shall be cased no less than 22 feet below ground surface. For Well #2, total well depth shall not exceed 135 feet below ground surface, and shall be cased no less than 25 feet below ground surface."*

**References:**

1. WRD GRID well log database.
2. USGS topographic map, Medford West, OR 1:24,000 sheet.
3. Land Use Geology of Central Jackson County, Oregon. Bulletin 94, Oregon Department of Geology and Mineral Industries, 1977.
4. Well location and construction information as supplied by the applicant.



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