PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

| 1001 | | | | | | | | <u> </u> | LICAIR | 110 | <u>.</u> | | | |
|---|--|---|---|--|---|--|---|---|--|--|--|---|--|--|
| TO: | | Wate | r Rights S | ection | | | | | Date | e | June 15, | 2010 | | |
| FROM | [: | Grou | ndwater/H | Iydrology S | Section | Marc | Noi | ton | | | | | | |
| | | | | 15207 | | Revi | iewer's | s Name | | | | | | |
| SORIE | ECT: | Appl | cation G- | 17386 | | Su | pers | edes re | view of | | | Date of Re | view(s) | |
| | | | | | | | | | | | | Dute of Re | (10) | |
| PUBL OAR 6 <i>welfare</i> to deter the pres | IC INTI 90-310-1 <i>s, safety a</i> mine who sumption | ERES 30 (1) 2 nd heal ether th criteria | T PRESU The Depart th as descr e presumpt . This revi | MPTION; tment shall p ibed in ORS tion is establ ew is based | GROUN presume the 537.525. ished. OA upon ava | NDWATE pat a propos Departmen R 690-310- ilable info | <u>R</u> sed gi t staf -140 rmat | roundw f review allows ion and | ater use will v groundwate the proposed l agency pol | <i>ensu</i> er apj use l icies | re the press plications u be modified in place a t | ervation under OA d or cond t the time | of the pu R 690-3 itioned to e of evalu | <i>blic</i> 10-140 o meet uation . |
| A. <u>GE</u> | NERAL | / INFC | ORMATIO | <u>ON</u> : A | pplicant's | Name: | Tod | ld Dav | is | | (| County: | Wasco | |
| A1. | Applica | ant(s) se | ek(s) <u>0.9</u> | 9 cfs from | m <u>2</u> | well | (s) in | the | Hood Rive | er | | | | _Basin, |
| |] | Eightm | ile/Fifteen | mile Creek | S | sub- | basin | ı Qu | ad Map: D | ufur | West | | | |
| ۸2 | Propose | ad usa. | Irr | igation - 70 | 5 acres | Sea | sonal | ity | March 1 st | Oc | tahar 31st | | | |
| A2. A3. | Well an | id aquif | er data (at | tach and nu | mber log | s for existi | ng we | ells; ma | irk proposed | <u>– 00</u> 1 wel | ls as such | under lo | gid): | |
| | | | Applicar | t' - | | - | | | | | | | | |
| Wel 1 | LogidProposed s Well #Proposed Aquifer*Proposed Rate(cfs)Location (T/R-S QQ-Q)Location, metes and bounds, 2250' N, 1200' E fr NW cor S | | | | | | | | | | | | ds, e.g. r S 36 | |
| 1 | WASC 3414 1 CRBG 0.99 01S/13E-30 NW NE 2080' W. 160' E f | | | | | | | | | | | fr NE co | r S 30 | |
| 2 | Propo | osed | 2 | C | RBG | 0.99 | | 01S/1 | 3E-30 NW | NE | 2160' | W, 40' E | fr NE cor | S 30 |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| C * Alluvi | um CBB | Bedroc | 7 | | | | | | | | | | | |
| Alluvi | uni, CKD, | Deuroe | x | | | | | | | | | | | |
| | Well | First | SWL | SWL | Well | Seal | C | asing | Liner | Pe | rforations | Well | Draw | Test |
| Well | Elev | Water | ft bls | Date | Depth | Interval (ft) | In | tervals (ft) | Intervals | O | r Screens | Yield | Down | Туре |
| 1 | 1230 | 11 DIS | -46 2 | 5/10/68 | 238 | 0 - 26 | 0. | 26 | (1t) | | (11) | (gpm) 550 | (It) 100 | PT |
| 1 | 1230 | 04 | -40.2 | 4/3/69 | 238 | 0 - 165 | 0 - | 165 | | | | 368 | 150 | PT |
| | | | -128 | 6/7/2010 | | | | | | | | | | |
| 2 | 1230 | 82 | 10 | | 110 | | | | | | | 220 | | |
| | | | | | | | | | | | | | | |
| Use data | a from app | lication | for propose | d wells. | | | | | | | | | | I |
| ese dua | anom upp | | ioi propose | | | | | | | | | | | |
| A4. | Comm | ents: <u>B</u> | ob Wood | and I met w | vith Todd | Davis at th | he pr | operty | <u>on June 7, 2</u> | <u>2010.</u> | <u>Mr. Davi</u> | is explain | ed that | his first |
| option by well | <u>would be</u> #1 His | | <u>apiete wei</u> Lontion w | <u>n #2 at a der</u> ould be to c | onstruct | a second w | <u>ll a</u> ell in | the sa | <u>the upper w</u> me aquifer s | ater | ll #1 at an | ne cased | <u>anu sea</u> tely 176' | $\frac{100011}{2}$ - 233' |
| The thi | ird optio | n would | d be to cor | struct the v | vell into a | deeper aq | uifer | · No si | Decifics were | e disc | ussed con | cerning t | he well | <u> </u> |
| constru | iction for | r the th | ird option | • | | | | | | | | | | |
| Reques | sted discl | harge r | ate is 445 | gpm = 0.99 | cfs. | | | | | | | | | |
| A5. 🛛 | Provis | ions of | the <u>Hood</u> | River | | |] | Basin ru | ales relative t | the | developm | ent, class | ification | and/or |
| | manage | ement of | i groundwa | iter nydrauli | cally conr | lected to su | гтасе | water | i are, or 🏼 | are a | e not, activa | ated by th | us applic | ation. |

(Not all basin rules contain such provisions.) r凶 ne, or Comments:

A6. Well(s) #____

Comments:

Well(s) #_____, ____, ____, ____, ____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: <u>NA</u>

B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

- B1. **Based upon available data**, I have determined that groundwater* for the proposed use:
 - **is** over appropriated, **is not** over appropriated, or **is cannot be determined to be** over appropriated during any a. period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
 - will not or will likely be available in the amounts requested without injury to prior water rights. * This finding b. is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
 - will not or will likely to be available within the capacity of the groundwater resource; or c.
 - will, if properly conditioned, avoid injury to existing groundwater rights or to the ground water resource: d.
 - i. \Box The permit should contain condition #(s)
 - The permit should be conditioned as indicated in item 2 below. ii.
 - iii. The permit should contain special condition(s) as indicated in item 3 below;
- **Condition** to allow groundwater production from no deeper than _______ft. below land surface; B2. a.
 - Condition to allow groundwater production from no shallower than ______ ft. below land surface; b.
 - **Condition** to allow groundwater production only from the c. groundwater reservoir between approximately______ft. and______ft. below land surface;
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury -as related to water availability- that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc):

B3. Groundwater availability remarks: The water level in WASC 3414 has declined about 107 feet from 1969 to 2010, 235.62 feet above land surface to 128.64 feet above land surface. The amount of decline is consistent with many wells in basalt wells south of The Dalles. WASC 3416 is located about 6000 feet to the east of well #1. The amount of water level decline is similar between the two wells, about 110 feet over a similar time frame, but there is about 500 feet of difference between the water level elevations at the two wells. This large change in water levels in a fairly short distance may indicate folding, faulting or a change in stratigraphy.

Option 2, constructing a shallower well, would be hydraulically connected to Eightmile Creek. While at the property, I measured the water level at the nearby domestic well that is probably developing water from the shallow aquifer. The water level is about 20 feet higher than when it was constructed in 1999.

Option 3, constructing a well into a deeper aquifer, would be a possibility. It would be hard to predict how deep the well would need to be so as to not develop water from the aquifer developed by the current irrigation well. The well would need to cased and sealed at a minimum, to a depth of about 300 feet. There is no guaranty that the deeper aquifer could supply water without having decline problems as seen in other wells. This could result in regulation to minimize impacts on the resource or senior groundwater users. If Mr. Davis is interested in constructing a deep well, a set of conditions would need to be developed to prevent hydraulic connection to Eightmile Creek and construct a well that does not allow borehole flow, up or down.

Date

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. 690-09-040 (1): Evaluation of aquifer confinement:

| Wel 1 | Aquifer or Proposed Aquifer | Confined | Unconfined |
|----------|-----------------------------|-------------|------------|
| 1 | CRBG | \boxtimes | |
| 2 | CRBG | \boxtimes | |
| | | | |
| | | | |
| | | | |
| | | | |

Basis for aquifer confinement evaluation: Flowing artesian wells.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¹/₄ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

| Well | SW # | Surface Water Name | GW Elev ft msl | SW Elev ft msl | Distance (ft) | Hydraulically Connected? YES NO ASSUMED | Potential for Subst. Interfer. Assumed? YES NO |
|------|---------|--------------------------------|----------------------|----------------------|------------------|---|---|
| 1 | 1 | Eightmile Creek | 1358 | 1220 | 50 | | \square |
| 2 | 1 | Eightmile Creek – shallow well | 1220 | 1220 | 50 | \boxtimes \Box \Box | \square |
| 2 | 1 | Eightmile Creek – deep well | ???? | 1220 | | | |
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Basis for aquifer hydraulic connection evaluation: The water level for the shallow well option was obtained from the well log for WASC 3414. If a deep well were constructed, it would be conditioned so that the final construction would prevent hydraulic connection with Eightmile Creek.

Water Availability Basin the well(s) are located within: EIGHTMILE CR > FIFTEENMILE CR - AB UNN STR

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked 🖂 box indicates the well is assumed to have the potential to cause PSI.

| Well | SW # | Well < ¹ / ₄ mile? | Qw > 5 cfs? | Instream Water Right ID | Instream Water Right Q (cfs) | Qw > 1% ISWR? | 80% Natural Flow (cfs) | Qw > 1% of 80% Natural Flow? | Interference @ 30 days (%) | Potential for Subst. Interfer. Assumed? |
|------|---------|--|----------------|----------------------------------|---------------------------------------|---------------------|---------------------------------|---------------------------------------|----------------------------------|--|
| 2 | 1 | \boxtimes | | IS70252A | 17 | \boxtimes | 2.31 | \boxtimes | > 25 % | \boxtimes |
| | | | | | | | | | | |
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| Application G-17386 | continued | Dat | June 15, 2010 |
|---------------------|-----------|-----|---------------|
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| Sume evaluatio | in and minute | alons up | pry us in CSt | 1 100 10. | | | | | |
|----------------|---------------|----------------|----------------------------------|---------------------------------------|---------------------|---------------------------------|---------------------------------------|----------------------------------|--|
| SW # | | Qw > 5 cfs? | Instream Water Right ID | Instream Water Right Q (cfs) | Qw > 1% ISWR? | 80% Natural Flow (cfs) | Qw > 1% of 80% Natural Flow? | Interference @ 30 days (%) | Potential for Subst. Interfer. Assumed? |
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| Comments: | | | | | | | | | |

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

| Non-D | istributed | Wells | | | | | | | | | | | |
|---------------------------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| Diatuik | wtod Wall | la | | | | | | | | | | | |
| DISTI | Julea wei | 15 | | | | | | | | | | | |
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
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| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| $(\mathbf{A}) = \mathbf{T}\mathbf{c}$ | tal Interf | | | | | | | | | | | | |
| (R) = R(R) | % Not O | | | | | | | | | | | | |
| $(\mathbf{B}) = 80$ | V Nat O | | | | | | | | | | | | |
| $(\mathbf{C}) = \mathbf{I}$ | 70 INAL Q | | | | | | | | | | | | |
| $(\mathbf{D}) = (A$ | A) > (C) | \checkmark |
| (E) = (A | / B) x 100 | % | % | % | % | % | % | % | % | % | % | % | % |

| CD - indicate the containt on each month where (x) / x grader mat(x), (z) - indimension of the order of sole of | A) = total interfector | erence as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. |
|---|----------------------------------|---|
| | FS; (D) = highBasis for | r impact evaluation: |
| | | |
| | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit should contain condition 4(s) ii. The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions SW / GW Remarks and Conditions References Used: References Used: | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain or domition (s) ii. The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition f(s) ii. The permit should contain special condition(s) as indicated in "Remarks" below: SW / GW Remarks and Conditions SW / GW Remarks and Conditions References Used: References Used: | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions | | |
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| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i. □ The permit should contain condition #(s) ii. □ The permit should contain special condition(s) as indicated in "Remarks" below: SW / GW Remarks and Conditions Generation References Used: | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i The permit should contain condition #(s) | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If property conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition #(s) ii. The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions References Used; References Used; | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit and be regulated if it is found to substantially interfere with surface water: i The permit should contain condition #(s) | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: i The permit should contain condition #(s) | | |
| If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water: | b. 690-09 Rig l | •040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Wa nts Section. |
| Image: Description of the permit should contain special condition #(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions | . If proj under | perly conditioned , the surface water source(s) can be adequately protected from interference, and/or groundwater with spermit can be regulated if it is found to substantially interfere with surface water: The permit should contain condition $\#(a)$ |
| SW / GW Remarks and Conditions | 1. ii | The permit should contain special condition(s) as indicated in "Remarks" below: |
| SW / GW Remarks and Conditions | | The permit should contain special condition(3) as indicated in Kemarks below, |
| | SW/GW | Remarks and Conditions |
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| D. <u>W</u> | ELL CONSTRU | <u>CTION, OAR 690-200</u> |
|-------------|---|---|
| D1. | Well #: | Logid: |
| D2. | THE WELL doe a. review of b. field ins c. report of d. other: (s | es not meet current well construction standards based upon: of the well log; pection by; f CWRE; pecify); |
| D3. | THE WELL cor a. constitut b. commin c. permits d. permits e. other: (state) | nstruction deficiency: tes a health threat under Division 200 rules; gles water from more than one groundwater reservoir; the loss of artesian head; the de-watering of one or more groundwater reservoirs; pecify) |
| D4. | THE WELL cor | nstruction deficiency is described as follows: |
| | | |
| | | |
| D5. | THE WELL | a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification. b. I don't know if it met standards at the time of construction. |
| D6. [| Route to the En is filed with the I | forcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction Department and approved by the Enforcement Section and the Groundwater Section. |
| THIS | SECTION TO B | E COMPLETED BY ENFORCEMENT PERSONNEL |
| D7. [| Well construction | n deficiency has been corrected by the following actions: |
| | | |
| | | |
| | | |
| | | |

(Enforcement Section Signature)

D8.
Route to Water Rights Section (attach well reconstruction logs to this page).

_____, 200_____.



Water Availability Analysis **Detailed Reports**

EIGHTMILE CR > FIFTEENMILE CR - AB UNN STR HOOD BASIN

Water Availability as of 6/14/2010

Watershed ID #: 70252

Date: 6/14/2010

| Water | Consumptive | Instream Flow | | | Watershed |
|--------------------------|---------------------------|---------------|--------------|--------------|-----------------|
| Availability Calculation | Uses and <u>S</u> torages | Requirements | Reservations | Water Rights | Characteristics |

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

| Month | Natural Stream Flow | Consumptive Uses and Storages | Expected Stream Flow | Reserved Stream Flow | Instream Flow Requirement | Net Water Available |
|-------|------------------------|----------------------------------|-------------------------|-------------------------|------------------------------|------------------------|
| JAN | 3.99 | 0.18 | 3.81 | 3.47 | 7.00 | -6.66 |
| FEB | 16.60 | 0.25 | 16.40 | 15.90 | 7.00 | -6.51 |
| MAR | 16.20 | 0.28 | 15.90 | 22.90 | 10.00 | -17.00 |
| APR | 18.40 | 5.39 | 13.00 | 6.85 | 17.00 | -10.80 |
| MAY | 21.40 | 14.50 | 6.92 | 5.33 | 17.00 | -15.40 |
| JUN | 16.40 | 12.00 | 4.42 | 5.11 | 17.00 | -17.70 |
| JUL | 4.39 | 3.58 | 0.81 | 1.36 | 10.00 | -10.60 |
| AUG | 2.31 | 1.83 | 0.48 | 0.79 | 10.00 | -10.30 |
| SEP | 3.00 | 1.89 | 1.11 | 0.91 | 7.00 | -6.80 |
| OCT | 3.91 | 0.17 | 3.74 | 1.14 | 7.00 | -4.39 |
| NOV | 4.90 | 0.17 | 4.73 | 1.54 | 7.00 | -3.81 |
| DEC | 4.17 | 0.17 | 4.00 | 1.67 | 7.00 | -4.67 |
| STO | 11,300.00 | 2,440.00 | 8,870.00 | 4,000.00 | 7,430.00 | 816.00 |

Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

| Application # | Status | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------|-------------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| IS70252A | CERTIFICATE | 7.00 | 7.00 | 10.00 | 17.00 | 17.00 | 17.00 | 10.00 | 10.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| Maximum | | 7.00 | 7.00 | 10.00 | 17.00 | 17.00 | 17.00 | 10.00 | 10.00 | 7.00 | 7.00 | 7.00 | 7.00 |

Date_____June 15, 2010

Exceedance Level: 80% Time: 4:48 PM