

Approved: 

MEMO

To: Kristopher Byrd, Well Construction and Compliance Section Manager
From: Travis Kelly, Well Construction Compliance Coordinator
Subject: Review of Water Right Application G-19200
Date: February 9, 2022

The attached application was forwarded to the Well Construction and Compliance Section by the Groundwater Section. Phil Marcy reviewed the application. Please see Phil's Groundwater Review and the Well Reports.

Applicant's Well #1 (BENT 56152): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (BENT 730): Based on a review of the Well Report, Applicant's Well #2 seems to protect the groundwater resource.

The construction of Applicant's Well #2 may not satisfy hydraulic connection issues.

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL I.D. LABEL# L 135157
START CARD # 216856
ORIGINAL LOG #

(1) LAND OWNER Owner Well I.D. _____
First Name Andrew Last Name Feipen
Company _____
Address 24155 Hewett RD
City Monroe State OR Zip 97456

(2) TYPE OF WORK ☒ New Well ☐ Deepening ☐ Conversion
☐ Alteration (complete 2a & 10) ☐ Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stil Plstc Wld Thrd
Casing: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Material From To Amt sacks/lbs
Seal: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Reverse Rotary ☐ Other _____

(4) PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Community
☒ Industrial/ Commercial ☐ Livestock ☐ Dewatering
☐ Thermal ☐ Injection ☐ Other _____

(5) BORE HOLE CONSTRUCTION Special Standard ☐ (Attach copy)
Depth of Completed Well 100 ft.
BORE HOLE SEAL
Dia From To Material From To Amt (sack/lbs)
10 0 58 Cement 0 58 15
6 58 100 Calculated 15
Calculated _____

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Filter pack from _____ ft. to _____ ft. Material _____ Size _____
Explosives used: ☐ Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount Pounds Actual Amount Pounds

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stil Plstc Wld Thrd
☒ ☒ 6 ☒ 2 58 1250 ☒ ☐ ☒ ☐
☐ ☐ 4 ☐ 0 100 160psi ☐ ☒ ☒ ☐
Shoe ☐ Inside ☐ Outside ☐ Other Location of shoe(s) _____
Temp casing ☐ Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method 44 Rand Holes Drilled
Screens Type _____ Material _____
Perf/S Casing/Screen Dia From To Scrn/slot Slot # of Tele/
creen ☒ 4 60 100 width length slots pipe size
142H 250

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
20 95 1
Temperature 58 °F Lab analysis ☐ Yes By _____
Water quality concerns? ☐ Yes (describe below) TDS amount 110
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County Benton Twp 15 NS Range 6 E WM
Sec 2 SE 1/4 of the SE 1/4 Tax Lot 801
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
☒ Street address of well ☐ Nearest address

SAME

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration _____
Completed Well 6-10-2020 11
Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found 85
SWL Date From To Est Flow SWL(psi) + SWL(ft)
6-10-2020 85 90 20 11

(11) WELL LOG Ground Elevation _____
Material From To
ROAD ROCK 0 3
Brown Silty Clay 3 6
Red Silty Clay 6 27
Brown Sand Stone 27 50
Blue Sand Stone 50 85
Blue Sand Stone w/lt Quartz 85 90
Blue / Gray Sand Stone (mixed) 90 100
RECEIVED
JUN 29 2020
OWRD

Date Started 6-10-2020 Completed 6-10-2020

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Signed _____

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 1753 Date 6-10-2020
Signed Cit King
Contact Info (optional) _____

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

BENT 730

(START CARD) # 22810

155/bw/2dd

(1) OWNER: Well Number: 646
Name James Crawford
Address P.O. Box 408
City Hamilton State WA Zip 98255

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No ☒ Depth of Completed Well 395 ft.
Explosives used Yes No ☒ Type Amount

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks or pounds	
10"	0' 59'	Cement	0' 59'	12 Sacks	
6"	59' 395'				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

Diameter		From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:		6"	41'	54' 250	☒	☐	☒	☐
Liner:		4"	0'	395' 160	☐	☒	☐	☐

Final location of shoe(s) 59 ft

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Elect Saw
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
120'	395'	8x5	280			☐	☒
Shale Trap placed at 100 ft							

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing ☐ Artesian
Yield gal/min Drawdown Drill stem at Time
8 GPM 395' 1 hr.

Temperature of water 53° Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Benton Latitude Longitude
Township 15S N or S, Range 6W E or W, WM.
Section 2 SE 1/4 SE 1/4
Tax Lot 801 Lot Block Subdivision
Street Address of Well (or nearest address) 24155 Hewitt Rd
Alpine

(10) STATIC WATER LEVEL:
103 ft. below land surface. Date 5/28/91
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL
125'	126'	2 GPM	103
237'	238'	3 GPM	103
344'	345'	3 GPM	103

(12) WELL LOG: Ground elevation

Material	From	To	SWL
Topsail	0	3	0
Brown Clay	3	6	0
Red Clay	6	21	0
Grey Clay	21	35	0
Yellow Clay	35	52	0
Grey Shale	52	71	0
Yellow Claystone	71	82	0
Grey Shale	82	193	103
Grey Sandstone	193	198	103
Grey Shale	198	347	103
Grey Sandstone	347	395	103

RECEIVED
JUN 28 1991
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 5/25/91 Completed 5/28/91

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1411 Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Donald J. Forring WWC Number 751 Date 5/29/91



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

Application for Well ID Number

RECEIVED

MAR 11 2016

WATER RESOURCES DEPT
SALEM, OREGON

Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name (please print): Jared Dellinger & Andrew Felperin

Mailing Address: 24155 Hewett Road

City, State, Zip: Monroe, OR 97456

Mail Well ID Tag to: ☒ SAME AS ABOVE ☐ In Care Of (C/O)

Name & Address: L120348

City, State, Zip:

II. WELL LOCATION INFORMATION (Please fill out as completely as possible)

Township: 15S (North / South) Range: 6W (East / West) Section: 02 1/4 of the 1/4

Tax Lot (usually last 3-5 numbers of Tax Map #): 801 County Benton

GPS Coordinates: Latitude 44.290515147 Longitude -123.3743806

Street Address of Well, City: 24155 Hewett Road, Monroe, OR 97456

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION (Please fill out as completely as possible, AND attach copy of Well Log, if available)

Use of Well (domestic, irrigation, commercial, industrial, monitoring): Domestic

Date Well Constructed (or property built): 1992 House & 1978 Cabin Total Well Depth: Casing Diameter: 6"

Owner at time the well was constructed (if known): Well Log # (if known):

Other Information:

SUBMITTED BY (please print): Robert N. Turkisher (Benton County Environmental Health)

PHONE: 541-766-6841

EMAIL &/or FAX: 541-766-6248

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902.
Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:

3-11-16

Well Log Number:

BENT 730

Well Identification #:

2-120348

BENT 730



BENTON COUNTY ENVIRONMENTAL HEALTH ON-SITE SEWAGE DISPOSAL SYSTEM PLOT PLAN

Owner: Jared Dellinger & Andrew Felperin

Date: 03/11/16

SITE #: -
PERMIT: -
TYPE: Property Line Adjustment

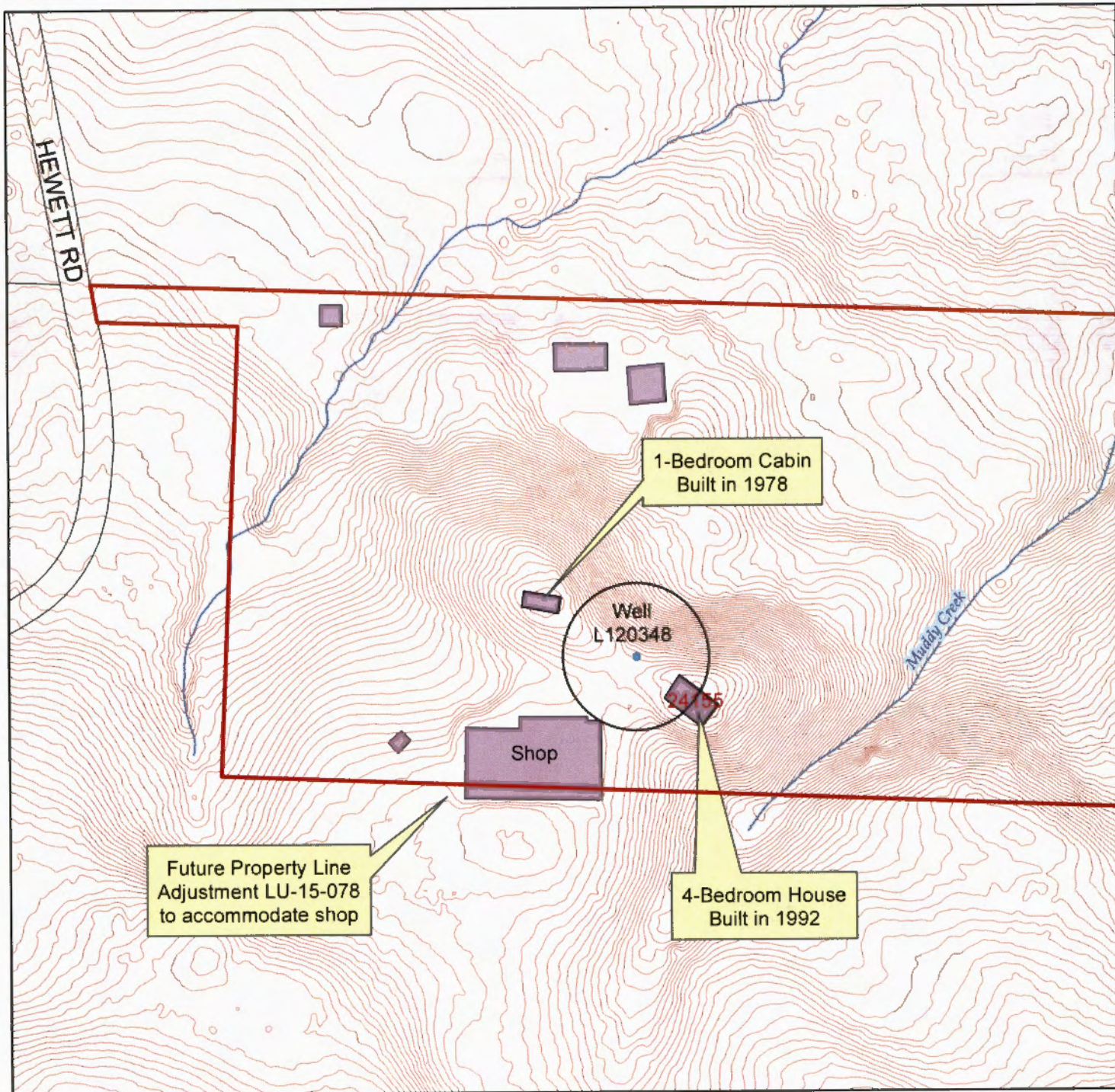
Applicant: N/A

Assessor's Map and Tax Lot Numbers: 15-6-2 TL 801

Address: 24155 Hewett Road, Monroe, OR 97456

Parcel: 20.23 Acres

Scale: 1 inch = 200 feet



RECEIVED

MAR 11 2016

WATER RESOURCES DEPT
SALEM, OREGON

0 100 200 400
Feet



Groundwater Application Review Summary Form

Application # G- 19200

GW Reviewer Phillip I. Marcy Date Review Completed: 12/08/2021

Summary of GW Availability and Injury Review:

☐ Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

☐ There is the potential for substantial interference per Section C of the attached review form.

Summary of Well Construction Assessment:

☐ The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

WATER RESOURCES DEPARTMENT

MEMO

12/08/2021

TO: Application G- 19200

FROM: GW: Phillip I. Marcy
(Reviewer's Name)

SUBJECT: Scenic Waterway Interference Evaluation

☐ YES The source of appropriation is hydraulically connected to a State Scenic
☒ NO Waterway or its tributaries

☐ YES
☒ NO Use the Scenic Waterway Condition (Condition 7J)

☐ Per ORS 390.835, the Groundwater Section is **able** to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below

☐ Per ORS 390.835, the Groundwater Section is **unable** to calculate ground water interference with surface water that contributes to a scenic waterway; **therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway**

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in [Enter] Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section Date 12/08/2021
 FROM: Groundwater Section Phillip I. Marcy
 Reviewer's Name
 SUBJECT: Application G- 19200 Supersedes review of _____
 Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation.*

A. GENERAL INFORMATION: Applicant's Name: A & J Investments, LLC County: Benton

A1. Applicant(s) seek(s) 0.01 cfs from 2 well(s) in the Willamette Basin,
 _____ subbasin

A2. Proposed use Nursery Seasonality: Year-round

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	BENT 56152	1	Alluvium	0.01	15S/6W-2 SE-SE	1290'N, 540'W fr SE cor S 2
2	BENT 730	2	Alluvium	0.01	15S/6W-2 SE-SE	850'N, 740' W fr SE cor S 2
3						
4						

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	582.68	85	11	06/10/2020	100	0-58	0-58	0-60	60-100	20	NA	Air
2	677.66	125	103	05/28/1991	395	0-59	0-59	0-120	120-395	8	NA	Air

Use data from application for proposed wells.

A4. **Comments:** The applicant proposes to use two existing wells producing groundwater from Tertiary marine sedimentary rocks of the Tyee Formation for year-round nursery use.

A5. ☒ **Provisions of the** Willamette Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water ☐ **are**, or ☒ **are not**, activated by this application. (Not all basin rules contain such provisions.)
 Comments: The pertinent basin rules do not apply as there is some confinement reported within both proposed POA wells, and neither lie within ¼ mile of a surface water source.

A6. ☐ **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
 Name of administrative area: _____
 Comments: _____

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:

- a. ☐ is over appropriated, ☒ is not over appropriated, or ☐ cannot be determined to be over appropriated during any 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;
- b. ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
- c. ☐ will not or ☐ will likely to be available within the capacity of the groundwater resource; or
- d. ☒ will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) 7N;
 - ii. ☐ The permit should be conditioned as indicated in item 2 below.
 - iii. ☐ The permit should contain special condition(s) as indicated in item 3 below;

- B2.
- a. ☐ **Condition** to allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ☐ **Condition** to allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ☐ **Condition** to allow groundwater production only from the _____ 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:** There is little development of groundwater in this area, therefore no data on which to support over-appropriation of the resource here. However, it is unknown to what extent the proposed development may alter the current state of the groundwater resource at this location, therefore condition 7N requiring annual measurements is suggested.

The authorized points of diversion (POD) for surface water right Cert. 89866 are located 560 feet from proposed POA 1 on this application, utilizing a spring discharge at that location. The proposed use is not anticipated to cause injury to this established right, due to elevation of the surface water source being greater than 50 feet higher than static water levels within either well. Our conceptual model for the pertinent aquifer includes that the primary conduit for groundwater are fractures developed after emplacement and lithification of sediments, leading to the conclusion that movement of groundwater can not be assumed to occur uniformly in all directions. In fact, it is likely that at this location, groundwater discharging to supply Cert. 89866 is utilizing a preferential flow path at or near the contact of deltaic sediments and intrusive volcanic rocks to the west (Yeats, 1996). Based upon the information available, any connection between these springs and the horizons targeted for groundwater production herein is anticipated to be diffuse and inefficient.

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**C1. 690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Sedimentary rocks of the Tyee Fmn.	☒	☐
2	Sedimentary rocks of the Tyee Fmn.	☒	☐
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: Static water levels within both wells are reported to rise above the elevation of the respective water-bearing zones.

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 ¼ 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?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Cherry Creek	571.68	368-454	3620	☒	☐	☐	☐	☒
2	1	Cherry Creek	574.66	368-454	3750	☒	☐	☐	☐	☒
1	2	Nichols Creek	571.68	370-535	3340	☒	☐	☐	☐	☒
2	2	Nichols Creek	574.66	370-535	3360	☒	☐	☐	☐	☒

Basis for aquifer hydraulic connection evaluation: Water in both Cherry Creek and Nichols Creek is in part the result of groundwater discharge from the underlying Tyee Formation rocks, likely from fractures or along bedding contacts. The pathways for groundwater movement through this formation are likely tortuous and inefficient, however groundwater from the targeted aquifer herein is anticipated to contribute these surface water flows, particularly during sustained periods with no precipitation.

Water Availability Basin the well(s) are located within: MUDDY CR > MARYS R - AB EVERGREEN CR

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 (SW) source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that SW source, 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 < ¼ 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?
1	1	☐	☐	NA	NA	☐	6.10	☐	<<25%	☐
2	1	☐	☐	NA	NA	☐	6.10	☐	<<25%	☐
1	2	☐	☐	NA	NA	☐	6.10	☐	<<25%	☐
2	2	☐	☐	NA	NA	☐	6.10	☐	<<25%	☐

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Q _w > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Q _w > 1% ISWR?	80% Natural Flow (cfs)	Q _w > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: Due to the inefficient and diffuse flow paths which facilitate movement of groundwater to cited streams, it is unlikely that 25% of well discharge at the proposed locations will be the result of stream depletion within 30 days of the onset of pumping.

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-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation:

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5. ☐ **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or groundwater use 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;

C6. **SW / GW Remarks and Conditions:** Based on available data, it is not anticipated that the proposed use will negatively impact nearby surface water right Certificate 89866. However, if this senior right experiences injury, corresponding to a decline of groundwater elevations within the proposed POA wells, the use of these wells shall be curtailed.

References Used: Application G-19200, local well logs, WRIS Water Right Information System

Yeats, R.S., Graven, E.P., Werner, K.S., Goldfinger, C., Popowski, T.A., 1996, Geologic map of the central and southern Willamette Valley, Benton, Lane, Linn, Marion and Polk counties, Oregon: U.S. Geological Survey, Reston, VA., Professional Paper PP-15

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: _____ Logid: _____

D2. THE WELL does not appear to meet current well construction standards based upon:

- a. ☐ review of the well log;
- b. ☐ field inspection by _____;
- c. ☐ report of CWRE _____;
- d. ☐ other: (specify) _____

D3. THE WELL construction deficiency or other comment is described as follows: _____

D4. ☐ Route to the Well Construction and Compliance Section for a review of existing well construction.**Water Availability Tables**

MUDDY CR > MARYS R - AB EVERGREEN CR						
Watershed ID #: 30200320			Basin: WILLAMETTE		Exceedance Level: 80	
Time: 12:01 PM			Date: 12/08/2021			
Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirements	Net Water Available
Monthly values are in cfs.						
Storage is the annual amount at 50% exceedance in ac-ft.						
JAN	168.00	3.45	165.00	0.00	0.00	165.00
FEB	191.00	3.12	188.00	0.00	0.00	188.00
MAR	166.00	2.77	163.00	0.00	0.00	163.00
APR	88.50	1.95	86.50	0.00	0.00	86.50
MAY	51.00	4.72	46.30	0.00	0.00	46.30
JUN	27.00	8.27	18.70	0.00	0.00	18.70
JUL	13.90	13.80	0.13	0.00	0.00	0.13
AUG	8.30	11.10	-2.77	0.00	0.00	-2.77
SEP	6.10	5.76	0.34	0.00	0.00	0.34
OCT	7.10	0.94	6.16	0.00	0.00	6.16
NOV	19.20	1.10	18.10	0.00	0.00	18.10
DEC	118.00	3.20	115.00	0.00	0.00	115.00
ANN	105,000	3,650	102,000	0	0	102,000

Well Location Map

