Checklist for Claims of Beneficial Use Received at CSG Counter

Application #: S-88004	WRD Reviewer: Judy
Transfer #:	
Date Received: 11/08/2021	
CWRE Name: Bruce D Wilson	
Priority Date (s):08/19/2014	

Fees Required:

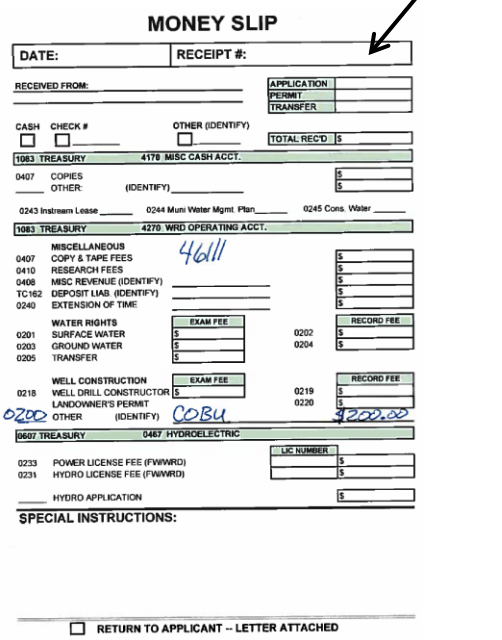
☑ YES NO ☐ A fee of $230 must accompany this form for permits with priority dates of July 9, 1987, or later.

☐ YES NO ☐ A fee of $230 must accompany this form for any transfers including a water right with a priority date of July 9, 1987, or later.
Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Map Review:

☑ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
☑ Application & permit #; or transfer # (OAR 690-014-0100(1))
☑ Disclaimer (OAR 690-014-0170(5))
☑ North arrow (OAR 690-310-0050(2)(c))
☑ CWRE stamp and signature (OAR 690-014 & 310-0050)
☑ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
☑ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))

Fill in App or Transfer Number


MONEY SLIP

DATE: RECEIPT #:

RECEIVED FROM:

APPLICATION
PERMIT
TRANSFER

CASH CHECK # OTHER (IDENTIFY) TOTAL REC'D $

1083 TREASURY 4170 MISC CASH ACCT.

0407 COPIES $
OTHER: (IDENTIFY) $

0243 Instream Lease 0244 Muni Water Mgmt. Plan 0245 Cons. Water

1083 TREASURY 4270 WRD OPERATING ACCT.

MISCELLANEOUS 4611
0407 COPY & TAPE FEES $
0410 RESEARCH FEES $
0408 MISC REVENUE (IDENTIFY) $
TC162 DEPOSIT LIAB. (IDENTIFY) $
0240 EXTENSION OF TIME $

WATER RIGHTS EXAM FEE RECORD FEE
0201 SURFACE WATER $ 0202 $
0203 GROUND WATER $ 0204 $
0205 TRANSFER $

WELL CONSTRUCTION EXAM FEE RECORD FEE
0218 WELL DRILL CONSTRUCTOR $ 0219 $
LANDOWNER'S PERMIT 0220 $
0200 OTHER (IDENTIFY) COBU $200.00

0607 TREASURY 0467 HYDROELECTRIC

LIC NUMBER
0233 POWER LICENSE FEE (FW/WRD) $
0231 HYDRO LICENSE FEE (FW/WRD) $
HYDRO APPLICATION $

SPECIAL INSTRUCTIONS:

☐ RETURN TO APPLICANT -- LETTER ATTACHED

Report Review:

☑ On form provided by the Department (OAR 690-014-0100(1))
☑ Application & permit #; or transfer # (OAR 690-014)
☑ Ownership information (OAR 690-014)
☑ Date of survey (OAR 690-014)
☑ Person interviewed (OAR 690-014)
☑ County (OAR 690-014)
☑ CWRE stamp and signature (OAR 690-014-0100)
☑ Signature(s) of all permittee of transfer holder (OAR 690-014-0100)

Groundwater File Review:

☐ Pump Test not required (Priority Date prior to December 20, 1988) *If no, include pump test flyer w/acknowledgment letter
☐ Pump Test required (Priority Date on or after December 20, 1988)
☐ Pump Test submitted
☐ Pump Test not submitted

CLAIM OF BENEFICIAL USE for Surface Water Permits claiming more than 0.1 cfs

OREGON WATER RESOURCES DEPARTMENT
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

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A fee of $230 must accompany this form for permits with priority dates of July 9, 1987, or later.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Go to "Resources for Water Right Examiners (CWRE)" Page
https://www.oregon.gov/OWRD/programs/WaterRights/COBU/Pages/default.aspx
The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-979-9103.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see
https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

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SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION #	PERMIT #	PERMIT AMENDMENT #
S-88004	S-54906	NA

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Brad Hazenberg/Hazenberg Dairy		(503) 633-2876	(503) 805-2342
ADDRESS 5828 Champoeg Rd NE			
CITY Saint Paul	STATE OR	ZIP 97137	E-MAIL hazenbergaccounting@stpaultel.com

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each*** *permit holder of record must sign this form.*

3. Permit or holder of record (this may, or may not, be the current property owner):

PERMIT HOLDER OF RECORD		
Hazenberg Dairy		
ADDRESS 5828 Champoeg Rd NE		
CITY Saint Paul	STATE OR	ZIP 97137

ADDITIONAL PERMIT HOLDER OF RECORD		
NA		
ADDRESS NA		
CITY NA	STATE NA	ZIP NA

4. Date of Site Inspection:

09/17/2021 – 11/03/2021

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Brad and Brandon Hazenberg	09/17/2021	Owner and Co-Owner
Brandon Hazenberg	09/28/2021	Co-Owner
Brandon Hazenberg	11/03/2021	Co-Owner

6. County:

Marion

7. If any property described in the place of use of the permit final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

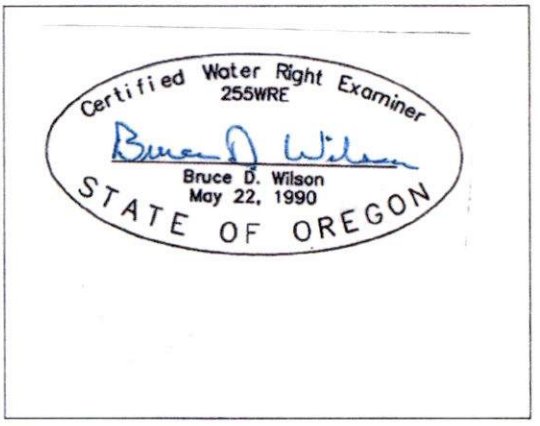
OWNER OF RECORD		
NA		
ADDRESS		
NA		
CITY	STATE	ZIP
NA	**NA**	**NA**

Add additional tables for owners of record as needed

SECTION 2
SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Bruce D. Wilson		**(866) 493-3243**	**(503) 881-4254**
ADDRESS **1975 Rock Ledge Dr. NE**			
CITY **Keizer**	STATE **OR**	ZIP **97303**	E-MAIL **BDWEng@comcast.net**

Permit Holder of Record Signature or Acknowledgement

Each *permit holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
Brad Hazenberg	**Brad Hazenberg**	**Owner**	11/3/21

SECTION 3

CLAIM DESCRIPTION

1. Point of diversion name or number:

POINT OF DIVERSION (POD) NAME OR NUMBER (CORRESPOND TO MAP)
WRPOD

2. Point of diversion source and tributary:

POD NAME OR NUMBER	SOURCE	TRIBUTARY
WRPOD	**Willamette River**	**Columbia River**

3. Developed use(s), period of use, and rate for each use:

POD NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
WRPOD	**Irrigation**	**Grass Hay Corn for Silage**	**May 15 to September 30**	**1,428 GPM and 250 AF**
Total Quantity of Water Used				

4. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion to the place of use:

A 75 horsepower pump transfers water from the Willamette River (WRPOD) to a 12 inch diameter underground PVC pipeline. The 12 inch diameter underground PVC pipeline is 5,960 feet long and transfers water to wastewater storage pond 2 (WSP2) at a design rate of 2,000 gpm at 110 feet of total dynamic head which mixes with wastewater from the dairy operations. The theoretical pumping rate from the Willamette River to WSP2 is 1,428 gpm at 166 feet of total dynamic head. A wastewater pump at WSP2 pumps wastewater through a 6 inch diameter underground PVC pipeline to wastewater storage pond 3 (WSP3) at a theoretical rate of 730 gpm. Wastewater overflow from WSP3 is directed to wastewater storage pond 4 (WSP4). Pumps at WSP2, WSP3 and WSP4 pump stored wastewater through 6, 8 and 12 inch diameter underground PVC pipelines to 8 traveling big gun sprinkler systems that are used to irrigate the crops grown on the farm. There are valve manifolds throughout the system that allow water to be directed in both directions in the pipelines. The pump at the Willamette River (WRPOD) is pulled out of the river at the end of the irrigation season, around September 30th and put back in the river around May 15th.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

5. Variations:

Was the use developed differently from what was authorized by the permit, or permit amendment final order? If yes, describe below. **NO**

(e.g. *"The permit allowed three points of diversion. The water user only developed one of the points."* or *"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres."*)

The use developed was the same as authorized by the permit.

6. Claim Summary:

POD NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
WRPOD	**NA**	**1,428 gpm**	**250 AF**	**Irrigation**	**473.8 Ac**	**457.7 Ac**

SECTION 4

SYSTEM DESCRIPTION

Are there multiple PODs? **NO**

If *"YES"* you will need to copy and complete a separate Section 4 for each POD.

POD Name or Number this section describes (only needed if there is more than one):

NA

A. Place of Use

1. Is the right for municipal use? **NO**

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3 S	2W	WM	31	NENE	4		Irrigation		24.1
3S	2W	WM	31	NWNE	4		Irrigation		5.4
3 S	2W	WM	32	NWNE		65	Irrigation		11.5
3S	2W	WM	32	SWNE		65	Irrigation		17.5
3S	2W	WM	32	SENE		65	Irrigation		1.9
3 S	2W	WM	32	NENW		65	Irrigation		0.2
3 S	2W	WM	32	NENW	3		Irrigation		0.2
3S	2W	WM	32	NWNW	4		Irrigation	16.5	18.1
3 S	2W	WM	32	NESE		65	Irrigation		31.4
3 S	2W	WM	32	NWSE		65	Irrigation		18.5
3 S	2W	WM	32	NWSE		66	Irrigation		10.2
3 S	2W	WM	32	SWSE		65	Irrigation		0.2
3 S	2W	WM	32	SWSE		66	Irrigation		11.2
3S	2W	WM	32	SESE		65	Irrigation		23.2
3S	2W	WM	32	SESE		66	Irrigation		13.9
3 S	2W	WM	33	NWSW		65	Irrigation		9.6
3S	2W	WM	33	SWSW		65	Irrigation		21.0
4S	2W	WM	4	NWNW		40	Irrigation		0.9
4S	2W	WM	4	SWSW		38	Irrigation		7.8
4S	2W	WM	5	NENE		39	Irrigation		31.8
4S	2W	WM	5	NWNE		39	Irrigation		2.1
4S	2W	WM	5	SWNE		39	Irrigation		12.8
4S	2W	WM	5	SENE		39	Irrigation		38.9
4S	2W	WM	5	NESE		39	Irrigation		18.9
4S	2W	WM	5	NESE		38	Irrigation		3.4
4S	2W	WM	5	NWSE		38	Irrigation		2.9
4S	2W	WM	5	NWSE		39	Irrigation		10.7
4S	2W	WM	5	SWSE		38	Irrigation		13.4
4S	2W	WM	5	SESE		38	Irrigation		35.1
4S	2W	WM	8	NENE		38	Irrigation		26.6
4S	2W	WM	9	NWNW		38	Irrigation		17.8
							Total Acres Irrigated	**16.5**	**441.2**

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion to the place of use.

1. Is a pump used? **YES**

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

Manufacturer	Model	Serial Number	Type (centrifugal, turbine or submersible)	Intake Size	Discharge Size
Berkley	**10T-1900**	**NA**	**Submersible Turbine**	**10.25 in**	**7.69 in**

3. Motor Information:

Manufacturer	Horsepower
Berkley	**75 Hp**

4. Theoretical Pump Capacity:

Horsepower	Operating PSI	Lift from Source to Pump	Lift from Pump to Place of Use	Total Pump Output (in cfs)
75	**47.62**	**-20 feet**	**56 feet**	**2.98**

5. Provide pump calculations:

See Attachments

6. Measured Pump Capacity (using meter if meter was present and system was operating):

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in cfs)
NA	**NA**	**NA**	**NA**

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped? **YES**

If "NO" items 8 through item 13 may be deleted.

8. Mainline Information:

Mainline Size	Length	Type of Pipe	Buried or Above Ground
12 inch Diameter	**5,714 Feet**	**PVC**	**Buried**
8 inch Diameter	**5,007 Feet**	**PVC**	**Buried**
6 inch Diameter	**8,270 Feet**	**PVC**	**Buried**

9. Lateral or Handline Information:

Lateral or Handline Size	Length	Type of Pipe	Buried or Above Ground
4 inch Diameter	**12@1,400 Feet**	**Polyethylene**	**Above Ground**

10. Sprinkler Information:

Size	Operating PSI	Sprinkler Output (GPM)	Total Number of Sprinklers	Maximum Number Used	Total Sprinkler Output (CFS)
1.2 inch	**60 psi**	**330**	**12**	**8**	**2,640 gpm**

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

Size	Operating PSI	Emitter Output (GPM)	Total Number of Emitters	Maximum Number Used	Total Emitter Output (CFS)
NA	**NA**	**NA**	**NA**	**NA**	**NA**

12. Drip Tape Information:

Dripper Spacing in Inches	GPM per 100 Feet	Total Length of Tape	Maximum Length of Tape Used	Total Tape Output (CFS)	Additional Information
NA	**NA**	**NA**	**NA**	**NA**	**NA**

13. Pivot Information:

Manufacturer	Maximum Wetted Radius	Operating PSI	Total Pivot Output (GPM)	Total Pivot Output (CFS)
NA	**NA**	**NA**	**NA**	**NA**

C. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)? **YES**

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank **NO**
Bulge in System / Reservoir **YES**

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

Material (concrete, fiberglass, metal, etc.)	Capacity (in gallons)	Above Ground or Buried
NA	**NA**	**NA**

3. Bulge in System / Reservoir:

Reservoir Name or Number (correspond to map)	Approximate Dam Height	Approximate Capacity (in acre feet)
WSP2	15 Feet	79.3 Acre Feet
WSP3	36 Feet	111.8 Acre Feet
WSP4	9.5 Feet	71.1 Acre Feet

D. Gravity Flow Pipe

(The Department typically uses the Hazen-William's formula for a gravity flow pipe system)

1. Does the system involve a gravity flow pipe? NO

E. Gravity Flow Canal or Ditch

(The Department typically uses Manning's formula for canals and ditches)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? NO

F. Additional notes or comments related to the system:

See attachments for WSP2, WSP3, and WSP4 as-built drawings.

SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or permit extension of time:

	Date from Permit	Date Accomplished*	Description of Actions Taken by Water User to Comply with the Time Limits
Issuance Date	12/16/2014		
Begin construction (A)	03/01/2015	04/01/2015	Completed installation of pump, flowmeter and pipeline.
Complete construction (B)	05/01/2015	05/15/2015	Started pumping water to WSP2
Complete application of water (C)	09/30/2019	09/30/2019	Completed full application of water to all fields

* MUST BE WITHIN PERIOD BETWEEN PERMIT OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)? NO

If "NO", items a and b relating to this section may be deleted.

3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? YES

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion.

b. Has a meter been installed? YES

c. Meter Information

POD Name or #	Manufacturer	Serial #	Condition (working or not)	Current Meter Reading	Date Installed
WRPOD	McCrometer	14-14379	Working	368817	04/01/2015

If a meter has been installed, items d through f relating to this section may be deleted.

4. Recording and reporting conditions:

a. Is the water user required to report the water use to the Department? **YES**

If "NO", item b relating to this section may be deleted.

b. Have the reports been submitted? **YES**

If the reports have not been submitted, attach a copy of the reports if available.

5. Fish Screening:

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **YES**

If "NO", items b through e relating to this section may be deleted.

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Has the fish screening been installed? **YES**

c. When was the fish screening installed?

DATE	BY WHOM
04/01/2015	**Rob Miller, R & R Miller Inc, Hubbard, OR**

Reminder: If the permit was issued on or after February 1, 2011, the fish screen is required to be approved by the Oregon Department of Fish and Wildlife regardless of the rate of diversion.

d. If the diversion **involves a pump** *and* the **total** diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs) and the permit was issued prior to February 1, 2011:

- Has the self-certification form previously been submitted to the Department? **NA**

If not, go to https://www.oregon.gov/OWRD/Forms/Pages/default.aspx complete and attach a copy of the 'ODFW Small Pump Screen Self Certification' form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does **not involve a pump** *or* the **total** diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? **NO**

If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at: https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

6. By-pass Devices:

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? **NO**

If "NO", items b and c relating to this section may be deleted.

7. Other conditions required by permit, permit amendment final order, or extension final order:

a. Was the water user required to restore the riparian area if it was disturbed? **YES**

b. Was a fishway required? **NO**

c. Was submittal of a water management and conservation plan required? **NO**

d. Other conditions? **YES**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

a. Disturbance to the riparian area was minimal so no restoration was needed.
d. All standard permit conditions were met except for condition number 8 which is being met by this claim of beneficial use.

SECTION 6

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
CBU Map	**Claim of Beneficial Use map.**
Pump&Fish Screen	**Pump site, pump curve, fish screen information and pump calculations.**
Sprinkler Capacity	**Sprinkler flowrate calculations.**
Fish Screen Approval	**ODFW letter approving installed fish screen.**
WSP As-builts	**As-built drawings for WSP2, WSP3, and WSP4.**

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

USDA-FSA-APFO Digital Ortho Mosaic, 1 map 1,860,436 MB, 11/07/2020, National Agriculture Imagery Program (NAIP), 1-1_hn_s_or047_2020_1 Marion.

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- ☐ Map on polyester film
- ☐ Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- ☐ Township, Range, Section, Donation Land Claims, and Government Lots
- ☐ If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- ☐ Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- ☐ Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- ☐ Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- ☐ Point(s) of diversion or appropriation (illustrated and coordinates)
- ☐ Tax lot boundaries and numbers
- ☐ Source illustrated if surface water
- ☐ Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- ☐ Application and permit number or transfer number
- ☐ North arrow
- ☐ Legend
- ☐ CWRE stamp and signature

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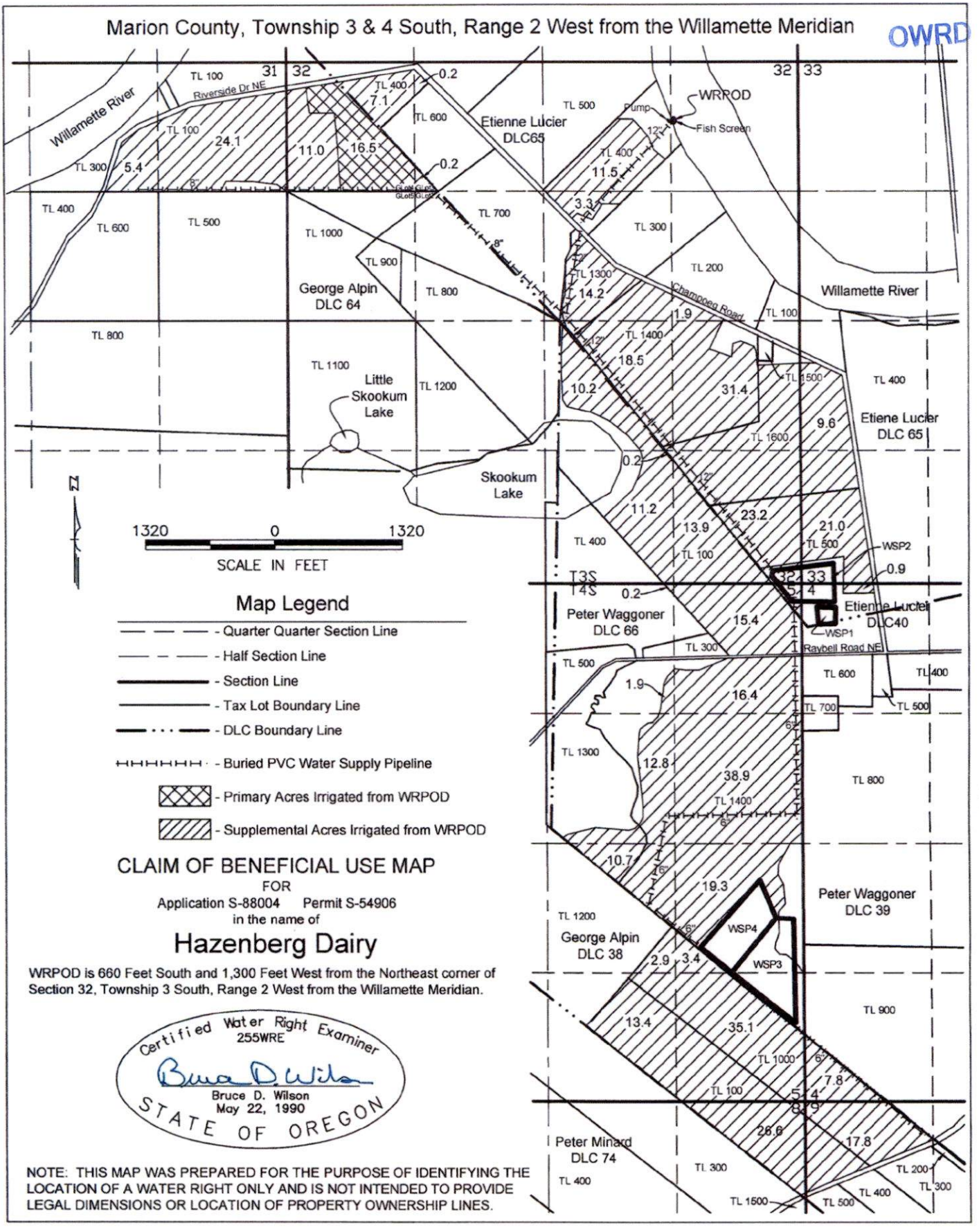
Marion County, Township 3 & 4 South, Range 2 West from the Willamette Meridian



Map Legend

- Quarter Quarter Section Line
- Half Section Line
- Section Line
- Tax Lot Boundary Line
- DLC Boundary Line
- Buried PVC Water Supply Pipeline
- Primary Acres Irrigated from WRPOD
- Supplemental Acres Irrigated from WRPOD

CLAIM OF BENEFICIAL USE MAP

FOR

Application S-88004 Permit S-54906

in the name of

Hazenberg Dairy

WRPOD is 660 Feet South and 1,300 Feet West from the Northeast corner of Section 32, Township 3 South, Range 2 West from the Willamette Meridian.

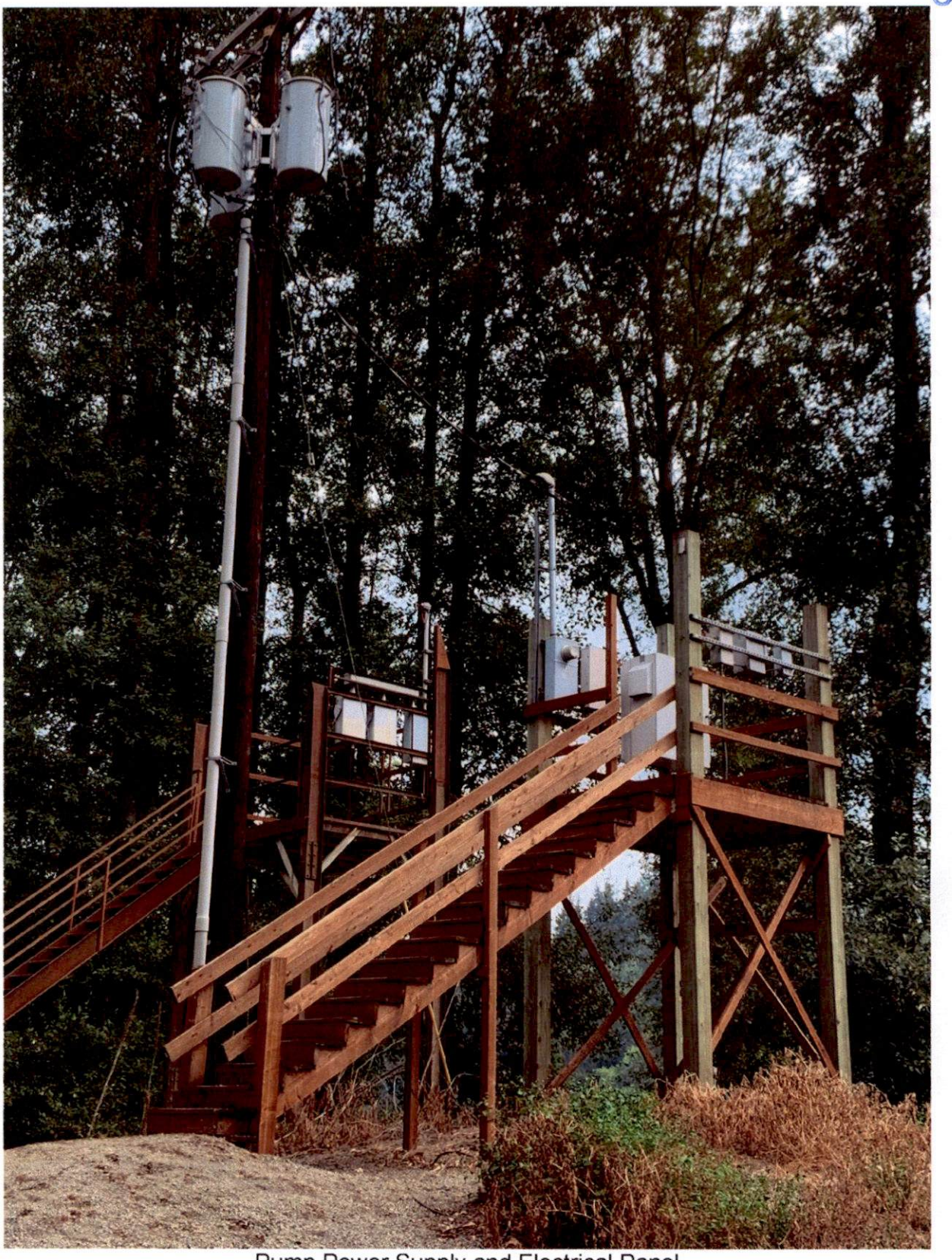
Certified Water Right Examiner
255WRE
Bruce D. Wilson
Bruce D. Wilson
May 22, 1990
STATE OF OREGON

NOTE: THIS MAP WAS PREPARED FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF A WATER RIGHT ONLY AND IS NOT INTENDED TO PROVIDE LEGAL DIMENSIONS OR LOCATION OF PROPERTY OWNERSHIP LINES.

Hazenberg Dairy

Pump Site on the Willamette River (WRPOD)

Hazenberg Dairy



Pump Power Supply and Electrical Panel

Hazenberg Dairy

Hazenberg Dairy
New in 2014

BERKELEY®

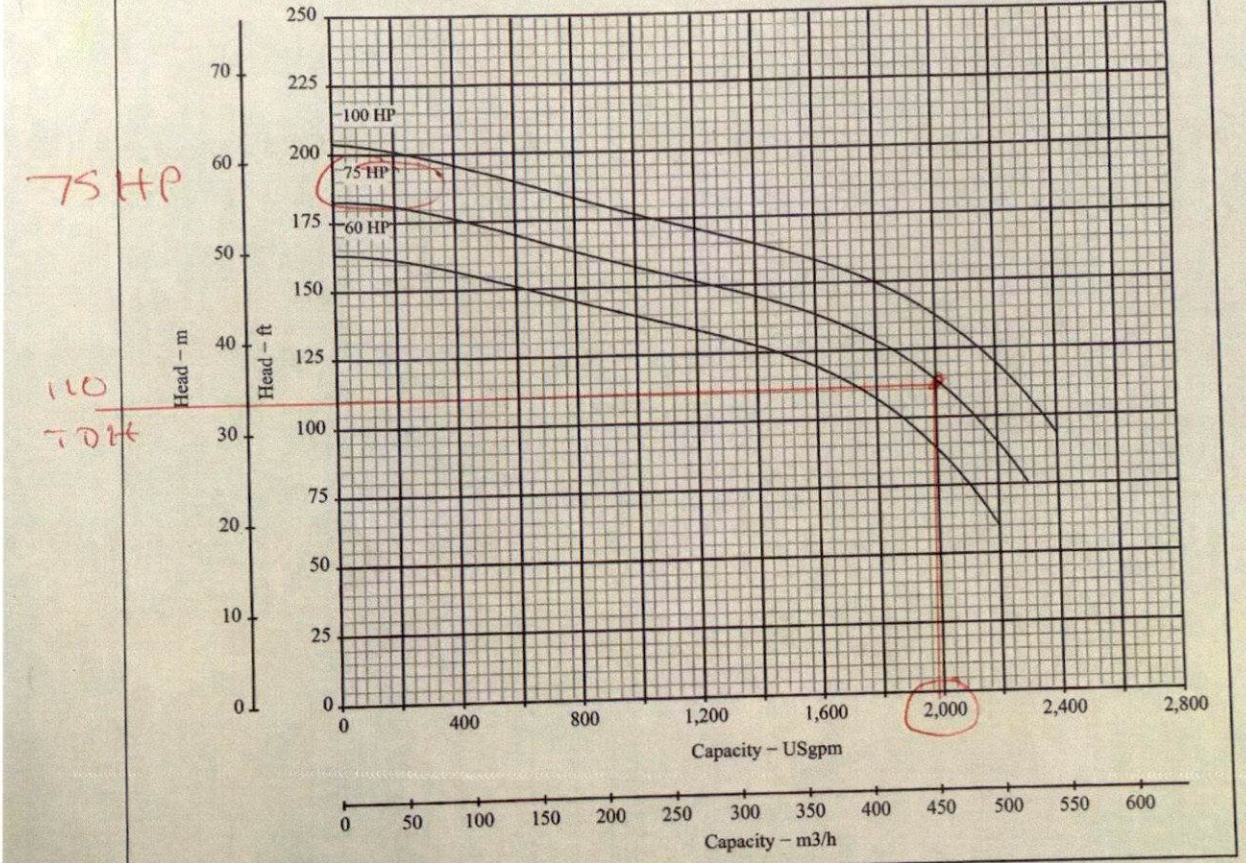
SUBMERSIBLE TURBINE

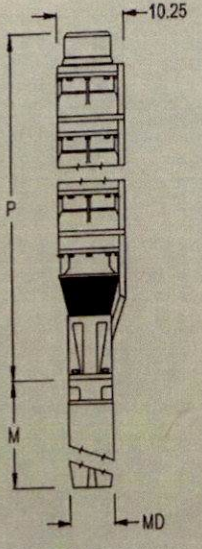
10T–1900

Nominal RPM: 3525
Based on Fresh Water @ 68 F.
Maximum Working Pressure: 450 PSI

75 HP

110 TDH





OUTLINE DIMENSIONS / WEIGHTS

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
60	1	8"	26.88	41.80	7.69	385	168
75	1	8"	26.88	54.90	7.69	424	168
100	1	8"	26.88	58.90	7.69	463	168

Note: dimensions = inches; weight = U.S. lbs.

M* Maximum length
MD* Motor diameter

SPECIFICATIONS

Minimum Well I.D.	12.0 Inches
Minimum Submergence @ BEP (above inlet)	20.0 Feet
Capacity Range	400 – 2400 GPM
Discharge	8" F NPT

See manufacturer's data for motor cooling requirements

SUPERSEDES
All Previous

Date 02/01/07
Section 10T
Page 5.01

River Pump Information

Hazenberg Dairy

Made In USA

CLEARWATER SELF-CLEANING SUCTION SCREENS

Installation and Operating Instructions pg.40 & 41

Hazenbergs Fishscreen

Clearwater Screens Operate In Any Position

MODEL	FLOW U.S. GPM 12/18M	24M	FISH SCREEN MAX. GPM FOR .4 FT. PER SEC. 12 MESH	OPEN SCREEN LENGTH	D	TOTAL LENGTH	DIAMETER	FLANGE SIZE	RETURN INLET	GPM USED TO OPERATE	STD. BRASS BEARING REC. OPERATING PRESSURE	SEALED BEARING REC. OPERATING PRESSURE	WEIGHT LBS.	LIST PRICE
CW100	200	165	180	9"	7.8"	19.5"	12"	3"	1/2"	12	40-60	N/A	30	$ 692.4
CW200	375	225	355	11"	11.5"	25"	16"	4"	1 1/2"	20	40-65	40-100	58	979.7
CW400	550	400	485	15"	10.6"	28.8"	16"	6"	1 1/2"	20	40-65	40-100	62	1230.7
CW600	750	525	775	16"	11.6"	32.5"	24"	8"	1 1/2"	20	40-65	40-100	102	1461.0
CW800	950	700	875	18"	11.1"	34.5"	24"	10"	1 1/2"	20	40-65	40-100	115	1511.9
CW1000	1350	950	1115	23"	11.1"	39.5"	24"	10"	1 1/2"	28	40-65	40-100	123	1647.9
CW1400	1550	1075	1265	26"	11.3"	42.5"	24"	12"	1 1/2"	28	40-65	40-100	131	1783.3
CW1700	1800	1250	1475	28"	12.0"	44.5"	26"	12"	1 1/2"	28	40-65	40-100	148	1971.0
CW2000	2100	1450	1685	32"	11.6"	48.5"	26"	14"	1 1/2"	36	40-65	40-100	160	2123.3
CW2400	2600	1800	2125	35"	11.6"	52.5"	30"	16"	1 1/2"	36	40-65	40-100	223	2302.2
CW3000	3000	2075	2430	40"	11.6"	57.5"	30"	16"	1 1/2"	44	40-65	40-100	236	2899.7
CW3500	3500	2420	2750	40"	12.8"	59.5"	36"	18"	1 1/2"	44	40-65	40-100	283	3666.6
CW4000	4000	2765	3150	40"	14.0"	63.5"	42"	18"	1 1/2"	44	40-65	40-100	258	4565.5
Mini Inline Filter – Model M150 Epoxy														458.8
Stainer (Clear) 1 1/2" Solvent Weld 60 to 70 GPM } Purging Without Removing Screen														105.4
Strainer (Clear) 2" Solvent Weld 70 to 100 GPM														148.7

New Flow Entry Control Vortex Tube Option - See Pricing On Page 17

Mesh Sizes Available 4, 8, 12, 18, and 24 – (12 Mesh Is Standard)

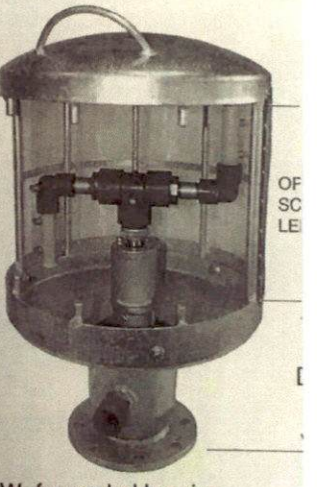
Special Connections Available - Call For Pricing

To Change Out A Brass Bearing To A Sealed Bearing You Need To Change The 11/2" Pipe Nipple That The Bearing Attaches To For One That Is 2" Shorter

Brass and Sealed Bearings Come In One Size - Fits All Models

Except for the CW100

***Models 3000, 3500, 4000**
Offered Only with Sealed Bearing



HIGH PRESSURE SEALED BEARING 40-100 PSI

BRASS BEARING 40-65 PSI

Trouble free operation under the worst conditions.
40 P.S.I. required to operate sealed bearing. Add $287.00 list to each C.W. for sealed bearing.
100 P.S.I. maximum operating pressure.

CLEMONS SALES CORPORATION

Manufacturers and Distributors of Irrigation and Industrial Equipment
6983 Supply Way • Boise, Idaho 83716
(208) 345-2525 / Toll Free 1-800-635-5975
FAX 1-208-345-2143
www. clemonssales.net
e-mail purchasing@clemonssales.net

1/1/1

River Pump Fish Screen Information

Hazenberg Dairy

Pump Capacity Calculation Sheet
using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

HP =	75	
Efficiency =	7.04	
Lift (Ft) =	56	**River to WSP2**
Pump PSI =	43.3	

Results Calculated

(hp)(efficiency) =	528
Head based on psi (Ft)=	110.0
Total dynamic head (Ft)= (head + lift)	166.0

Pump Capacity = **3.18 cubic feet per second**
1,428 gallons per minute

Hazenberg Dairy

Pump Capacity Calculation Sheet

using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

HP =	100	
Efficiency =	6.61	
Lift (Ft) =	-10	**WSP2 to Fields**
Pump PSI =	90	

Results Calculated

(hp)(efficiency) =	661
Head based on psi (Ft)=	228.6
Total dynamic head (Ft)= (head + lift)	218.6

Pump Capacity = **3.02 cubic feet per second**
1,357 gallons per minute

Hazenberg Dairy

Pump Capacity Calculation Sheet
using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

HP =	100	
Efficiency =	6.61	
Lift (Ft) =	76	**WSP2 to WSP3**
Pump PSI =	125	

Results Calculated

(hp)(efficiency) =	661
Head based on psi (Ft)=	317.6
Total dynamic head (Ft)= (head + lift)	393.6

Pump Capacity = **1.68 cubic feet per second**
754 gallons per minute

Hazenberg Dairy

Pump Capacity Calculation Sheet

using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61
Turbine = 7.04

Data Entry (fill in underlined blanks)

HP =	100	
Efficiency =	6.61	
Lift (Ft) =	-5	**WSP3 to Fields**
Pump PSI =	90	

Results Calculated

(hp)(efficiency) =	661
Head based on psi (Ft)=	228.6
Total dynamic head (Ft)= (head + lift)	223.6

Pump Capacity = **2.96 cubic feet per second**
1,327 gallons per minute

Sprinkler Capacity Calcualtor

Data Entry (fill in underlined blanks)

Sprinkler group 1	Nozzle size =	1.2 inch	(type an apostrophe before the size)
	Pressure =	60 PSI	
	Number of heads =	8	
Sprinkler group 2 (if applicable)	Nozzle size =	0 inch	(type an apostrophe before the size)
	Pressure =	0 PSI	
	Number of heads =	0	
Sprinkler group 3 (if applicable)	Nozzle size =	0 inch	(type an apostrophe before the size)
	Pressure =	0 PSI	
	Number of heads =	0	

Results calculated

Sprinkler group 1 capacity =	2640 gpm, or	5.88 cfs
Sprinkler group 2 capacity =	0 gpm, or	0 cfs
Sprinkler group 3 capacity =	0 gpm, or	0 cfs
Total sprinkler capacity =	2640 gpm, or	5.88 cfs

Note: If entered values return a result of "#N/A" gpm, then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.
Manufacturer data used for nozzle sizes larger than 1/2 inch.

Oregon
Kate Brown., Governor

Department of Fish and Wildlife
The Dalles Screen Shop
3561 Klindt Drive
The Dalles, OR 97058
(541) 296-8026
FAX (541) 296-7889
odfw.com

October 8, 2014

Brad Hazenburg
31775 Wilsonville Rd.
Newberg Or. 97132

RE: Water Rights Transfer #T-11734

To Whom It May Concern:

On September 16th, 2014 Oregon Department of Fish and Wildlife Fish Screens Field Coordinator, Martin Olson, performed a fish screen inspection at a point of diversion located on the Willamette River that is owned and operated by Hazenburg Dairy, c/o Brad Hazenburg. This point of diversion is affected by Water Rights Transfer #T-11734 and a new self-cleaning screen has been installed at this diversion. The self-cleaning fish screen that has been installed meets current fish screening criteria. Given this is an end of pipe fish screen, a fish bypass is not required.

Please contact me if you have any questions regarding this letter.

Sincerely,

Martin Olson
Fish Screens Field Coordinator
The Dalles Screens Shop

H&R ENGINEERING
for Natural Resources

BRUCE D. WILSON, P.E.
1975 ROCK LEDGE DR. N.E.
KEIZER, OR 97303
(866) 493-3243
Fax: (503) 990-7506

RECEIVED
NOV 08 2021
OWRD

November 5, 2021

Oregon Water Resources Department
Permit S-54906
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266

Hello Folks,

Enclosed is the claim of beneficial use documents for permit S-54906 issued in the name of Hazenberg Dairy for your review and approval.

Also enclosed is a check for $230 to cover the cost of processing.

Please feel free to contact me if you have any question regarding the claim of beneficial use for permit S-54906.

Sincerely,

Bruce D. Wilson

Bruce D. Wilson

enclosures