CLAIM OF BENEFICIAL USE for Reservoir Permits by CWRE's (not self-certified)

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

A fee of $230 must accompany this form for permits with priority dates of July 9, 1987, or later.
Claims received without the correct fee of $200 will be returned.

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
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

SECTION 1

GENERAL INFORMATION

1. File Information

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
R-84686	R-13525	

2. Property Owner (current owner information)

Applicant/Business Name		Phone No.	Additional Contact No.
Derek Deboer		5419444202	
Address			
PO BOX 249			
City	State	Zip	E-Mail
Ashland	OR	97520	derekdeboer@icloud.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 holder of record (this may, or may not, be the current property owner)

Permit Holder of Record		
Derek Deboer		
Address		
PO BOX 249		
City	State	Zip
Ashland	OR	97520

Additional Permit Holder of Record		
Address		
City	State	Zip

4. Date of Site Inspection:

5/16/24

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

Name	Date	Association with the Project
Warren Stubenrauch	5/16/24	Land Manager

6. County

Jackson

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		
Address		
City	State	Zip

Add additional tables for owners of record as needed

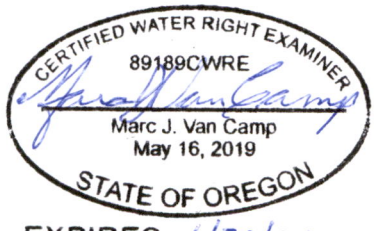
SECTION 2

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.

Seal and Signature



EXPIRES: 6/30/26

CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Marc Van Camp		541 297-1880	
ADDRESS PO BOX 995			
CITY Coos Bay	STATE OR	ZIP 97420	E-MAIL vancampconsulting@gmail.com

Permit Holder's of Record Signature or Acknowledgement

Each *permit or transfer 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
	Derek Deboer	Owner	11/26/24

SECTION 3

CLAIM DESCRIPTION

1. Reservoir source and, if from surface water, the tributary:

RESERVOIR NAME OR NUMBER	SOURCE	TRIBUTARY
Lake Hudson	Rogue River	Pacific Ocean

2. Developed use(s), period of use, and acre foot (af) for each use:

RESERVOIR NAME OR NUMBER	USES	SEASON OR MONTHS WHEN WATER WAS APPROPRIATED FOR STORAGE	VOLUME STORED (AF)
Lake Hudson	Wildlife, Recreation, Storage for Domestic Use	Dec. 1 – May 31	264.6 AF
Total Quantity of Water Stored			264.6 AF

3. Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion to the reservoir:

Lake Hudson is a reservoir supplied by 2 points of diversion (POD). POD #1 is the table rock canal and is diverted to the reservoir via ~7,780' of open canal and then 2,530' of canal lateral being subgrade 12" culvert pipe. There are adjustable headgates on the table rock canal lateral that control flow into the lateral and out of the lateral into Lake Hudson. POD #2 is a 10 HP pump that diverts water directly from the Rogue River into Lake Hudson. The reservoir is an oxbow of the Rogue River. The primary spillway is a low part of the dam on southern edge of the reservoir, there is also a 6" pipe that runs under this spillway that could be used to evacuate the reservoir.

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).

4. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. YES

(e.g. *"The permit allowed the development of three reservoirs. The permit holder only developed one of the reservoirs."* or *"The permit allowed for the storage of 9 acre feet of water. The reservoir was developed to hold 5.2 acre feet."*)

The permit allowed for 340.9 AF each year, the reservoir was only developed for 264.6 AF.

The permitted reservoir name was Van Wey Lake, this was changed to Lake Hudson

5. Claim Summary:

RESERVOIR NAME OR #	MAXIMUM STORAGE AUTHORIZED BY PERMIT (AF)	MAXIMUM STORAGE DEVELOPED (AF)
Lake Hudson	340.9 AF	264.6 AF

SECTION 4

SYSTEM DESCRIPTION

Are there multiple reservoirs? **NO**

If *"YES"* you will need to copy and complete Sections A through E for each reservoir.

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

Lake Hudson

A. Reservoir Location

1. Is the reservoir on-channel? **NO**

2. Provide dam outlet location and/or point of diversion(s).

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
36S	2W	WM	13	NWNE	8		2,709' W. & 251' S. from NE Cor. Sec 13. (Outlet)
36S	1W	WM	6	NENW	1		420' S. & 1810' E. from NW Cor. Sec 6. (POD #1)
36S	2W	WM	12	SWSE	11		635' N. &. 1368' W. from SE Cor. Sec 12. (POD #2)

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

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

If "NO" items 2 through item 5 may be deleted.

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)
Illegible	Same	Same	Centrifugal

3. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
10	80	5	10	0.30

4. Provide pump calculations:

Please see attachment OWRD Pump Capacity Calculator

5. 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			

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

6. Additional notes or comments related to the system:

Pump is used for POD #2

C. 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? YES

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Pipe Size	Pipe Type	"C" Factor	Amount of Fall	Length of Pipe	Slope	Computed Rate of Water Flow (in cfs)
12	Concrete	140	23'	2530'	0.9%	4.8cfs

3. Provide calculations:

Please see attachment OWRD Ditch Capacity Calculator.
Measurements and material of pipeline were observed at both the inlet and junction to Lake Hudson, materials and sizes in between are assumed.
This Table Rock Canal lateral supplies other water rights and exceeds capacity diverted to Lake Hudson

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)
NA			

Attach measurement notes.

D. 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? YES

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Canal or Ditch Type (Material)	Top Width of Canal or Ditch	Bottom Width of Canal or Ditch	Depth	"N" Factor	Amount of Fall	Length of Canal / Ditch	Slope	Computed Rate (in cfs)
Concrete w/ vegetation	9'	8'	1'	0.02	14'	7780'	0.2%	23.7cfs

3. Provide calculations:

Please see attachment OWRD Ditch Capacity Calculator.
Canal dimensions were measured at the location of the Table Rock Canal Lateral that supplies Lake Hudson. Table Rock Canal supplies other water rights and exceeds capacity diverted to Lake Hudson

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)
NA			

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications? NO

*If "**YES**", answer item 2; items 3 through 8 relating to this section may be deleted.*
*If "**NO**", skip items 2; answer items 3 through 8.*

2. Complete the table:

Have the Documents been Submitted? Yes or No	When were the Documents Submitted?	Have they been Approved by the Department?	Number of Acre Feet Stored

3. If the reservoir stores less than 9.2 acre-feet of water or if the dam is less than 10 feet in height, and as-built plans and specifications are not required, complete the table and items 4 through 8.

Maximum Depth	Average Depth	Surface Area (in acres)	Volume (in acre feet)

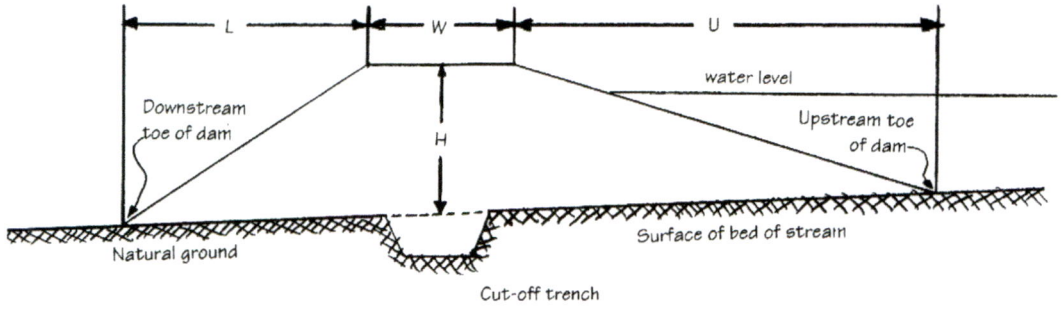
4. Provide reservoir volume calculations:

Please see attachment: Reservoir Volume Measurement

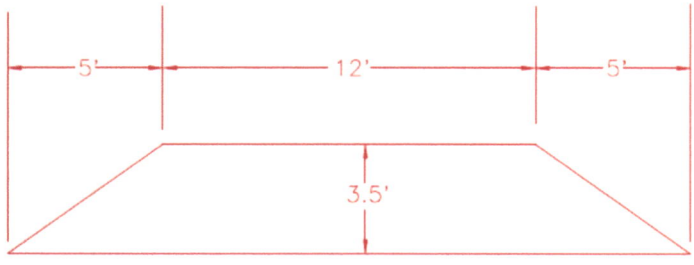
5. Provide the following information concerning the physical characteristics of the dam:

CREST WIDTH (W)	DAM HEIGHT AT CENTERLINE (H)	DISTANCE FROM DOWNSTREAM TOP OF DAM TO DOWNSTREAM TOE (L)	DISTANCE FROM UPSTREAM TOP OF DAM TO UPSTREAM TOE (U)	WATER LEVEL AT INSPECTION	DOWN-STREAM SLOPE	UP-STREAM SLOPE
12'	3.5'	5'	5'	3.25'	0.7	0.7

Example Dam Profile *This box may be deleted from the form*



6. Provide a drawing showing the cross section of the dam at the maximum section indicating details and dimensions. The drawing should be drawn at a standard even scale.



7. Describe the outlet works (size and type of the outlet conduit and location):

The primary outlet is the emergency spillway described below, it is only used when direct rainfall or flood water overfills the reservoir. There is also a 6" subgrade pipe under this spillway the goes from the deeper part of the reservoir to downstream of the dam, and could be used to evacuate the reservoir.

8. Describe the emergency spillway (dimensions and location):

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
10'	14'	1'

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 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 extension final order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	2/13/2003		
BEGIN CONSTRUCTION (A)	10/1/2007	6/1/2003	Construction of Dam Began
COMPLETE CONSTRUCTION (B)	10/1/2007	10/30/2003	Water Diverted to reservoir, pod #1
COMPLETE APPLICATION OF WATER (C)	10/1/2007	10/30/2003	Meter and outlet pipe installed and fish screen for POD #2.

* 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

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 or appropriation.

b. Has a meter been installed? YES

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Staff Gauge	Unknown	NA	Working	9.2'	10/30/2003

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. Outlet Pipe

a. Is the water user required to install a minimum 8"outlet pipe/conduit? **YES**

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

b. Has the outlet pipe been installed? **YES**

6. 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
10/1/2003	**Owner**

Reminder: If the permit or transfer final order 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):

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 (search for ODFW Small Pump Screen Self Certification), complete and attach a copy of the 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? **NA**
- 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.

7. 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? **YES**

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

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

b. Have by-pass device been installed? **NO**

c. Describe the diversion works as related to whether a by-pass device is installed or unnecessary:

(Provide a letter from ODFW indicating the device is approved or is unnecessary. If there is no letter from ODFW , explain whether or not a by-pass device is necessary.)

DESCRIPTION (E.G. "ODFW HAS APPROVED THE BY-PASS DEVICE" OR "NO BY-PASS DEVICE IS NECESSARY BECAUSE THERE IS A DIRECT DIVERSION FROM THE STREAM VIA A PUMP ON RIVER LEFT STREAM BANK WITH FOOT VALVE DESCENDING DIRECTLY INTO NATURAL POOL.") IN ADDITION, YOU MAY ATTACH PHOTOS TO THIS CLAIM.	IF INSTALLED (DATE)	IF INSTALLED, BY WHOM
Please see attachment ODFW Fish screen approval letter		

A fish screen is in stalled at POD #2, a fish screen is n o tequired fo rPOD #1, Table rock canal has its own fish screen and bypass system.

8. 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? **NO**

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

c. Was submittal of a letter from an engineer required prior to storage of water? **NO**

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

e. Other conditions? **NO**

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

See attachment ODFW fish screen approval letter for POD#1 and #2.

SECTION 6

ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Claim of Beneficial Use Map	**Claim of beneficial use map**
Reservoir Volume Measurement	**Reservoir Volume Measurement Calculations**
OWRD Pump Capacity Calculator	**OWRD Pump Capacity Calculator for POD #2**
OWRD Pipe Capacity Calculator	**OWRD Pipe Capacity Calculator for Table Rock Canal Lateral**
OWRD Ditch Capacity Calculator	**OWRD Ditch Capacity Calculator for Table Rock Canal**
ODFW Fish Screen Approval Letter	**ODFW Fish Screen Approval Letter for POD #1 & #2.**

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.

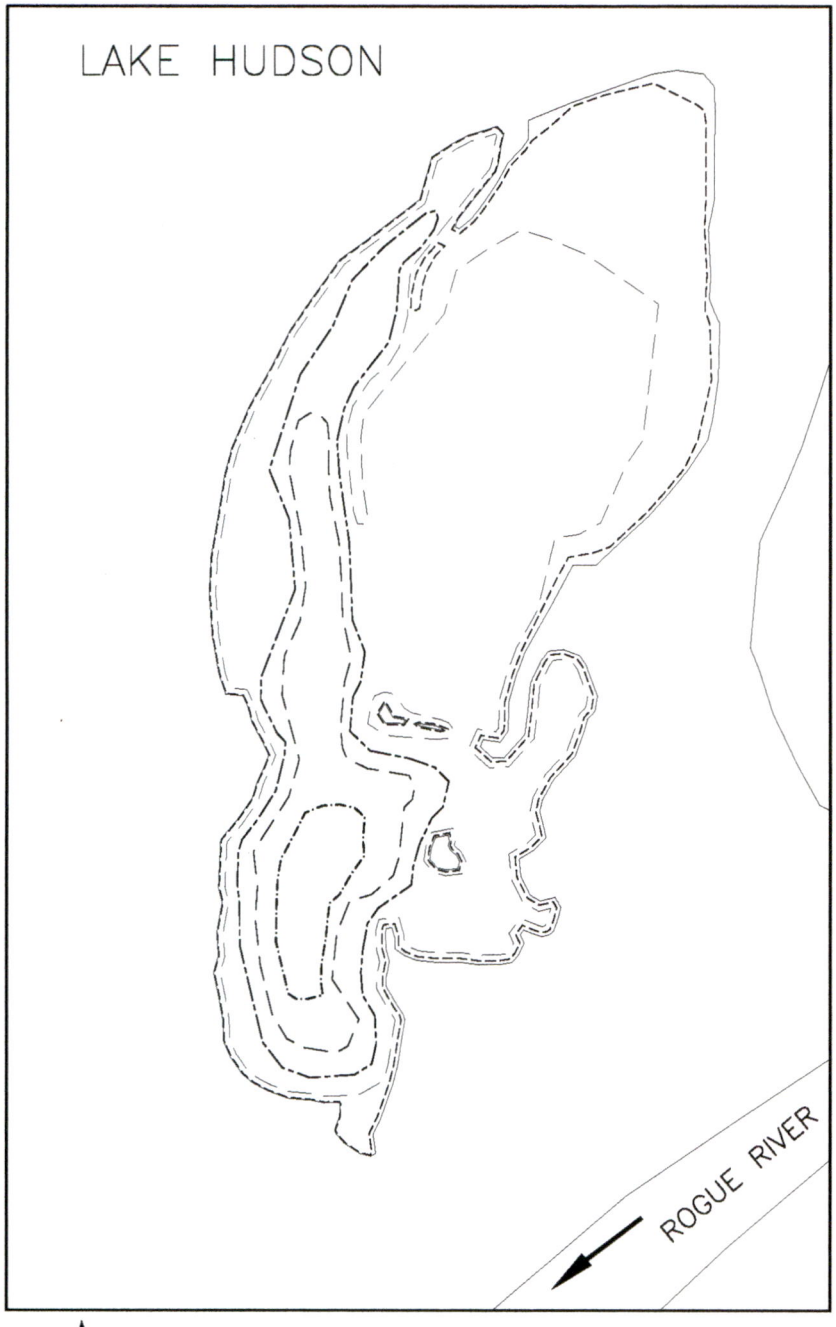
GPS

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
- ☒ 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

PERMIT R-13525 RESERVOIR VOLUME MEASUREMENT
SECTION 12 & 13, TOWNSHIP 36 SOUTH, RANGE 2 WEST, W.M.
JACKSON COUNTY, OREGON



CONTOUR (ft.)	Surface Area (Acre)	Volume Below (AC-FT)
Surface	51.1	100.1
2'	49.0	86.7
4'	37.7	50.0
6'	12.3	19.2
8'	6.9	8.5
10'	1.7	
	Max Volume = 264.6 AC-FT	

FULL RESERVOIR WATER SURFACE LEVEL
2' DEPTH CONTOUR
4' DEPTH CONTOUR
6' DEPTH CONTOUR
8' DEPTH CONTOUR
10' DEPTH CONTOUR

Received
DEC 09 2024
OWRD

NORTH
1"=500'

Certified Water Right Examiner
89189CWRE
Marc J. Van Camp
May 16, 2019
STATE OF OREGON
EXPIRES 06/30/2026

DISCLAIMER: THIS MAP WAS PREPARED FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF WATER RIGHT ONLY AND IS NOT INTENDED TO PROVIDE LEGAL DESCRIPTIONS OR LOCATIONS OF PROPERTY LINES.

VCC
VAN CAMP CONSULTING
P.O. Box 995
Coos Bay, OR 97420
(541) 297-1880
vancampconsulting@gmail.com

Prepared For:
Derek Deboer
PO Box 249
Ashland, OR 97520

Project:
Permit R-13525
Reservoir Volume
Measurement

Date:
05/16/24

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 =	10
Efficiency =	6.61
Lift =	15
PSI =	80

Results Calculated

(hp)(efficiency) =	66.1
Head based on psi =	203.2
Total dynamic head = (head + lift)	218.2

Pump Capacity = 0.30 feet per second

Pipe Capacity Calcualtor

for pipes flowing full, using the Hazen-Williams Formula

Data Entry (fill in underlined blanks)

Interior Diameter =	12	inches, or	1 feet
Roughness Coefficient (C) =	140		
Fall =	23	feet	per 2530 feet of distance
Grade =	0.0090909	, or	0.9%

Results calculated

Area of cross-section =	0.7854	square feet
Wetted Perimeter =	3.14159	feet
Hydraulic Radius =	0.25	
Velocity =	6.08686	feet per second
Pipe Capacity =	**4.781**	**cubic feet per second**

Ditch Capacity Calcualtor

using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width =	9	feet		
Bottom Width =	8	feet		
Depth =	1	feet		
Fall =	14	feet	per 7780	feet of distance
Grade =	0.0017995	, or	0.2%	
n Factor =	0.02			

Results calculated

Area of cross-section =	8.5	square feet
Wetted Perimeter =	10.2361	feet
Hydraulic Radius =	0.8304	
Velocity =	2.785	feet per second

Calculated Ditch Capacity = 23.7 cubic feet per second

Oregon
Tina Kotek, Governor

Department of Fish and Wildlife
Rogue Watershed District Office
1495 East Gregory Rd.
Central Point, OR 97502
Phone: 541-826-8774
Fax: 541-826-8776
www.odfw.com

September 11, 2024

Derek Deboer
PO Box 249
Ashland, OR 97520

Dear Derek,

ODFW reviewed permit R-13525 and determined fish screens at two legal points-of-diversion meet current fish protection criteria, and fish bypass devices are not necessary. POD #1 is screened (42.46873, -122.87538) within the Table Rock Canal with a vertical flat panel upstream of DeBoer property. ODFW cost shared the screen associated with POD #1 and does provide major maintenance responsibility. POD #2 is screened with a Sure Flo SCS6 pump screen within the Rogue River (42.448405, -122.880503). POD #2 was not cost shared and is at the responsibility of the water user to maintain. This approval is contingent on the following: current conditions remain unchanged, screens are installed so effective screen area is submerged during operation, the screens are regularly inspected and maintained to ensure they remain in working order (including debris removal), and the screen is annually inspected when it is not in use. Thank you.

Sincerely,

Josh Kelsey
Screens and Passage Coordinator
Fish Screening and Passage Program
(541) 857-2424

Received
DEC 09
OWRD