

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



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.**

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**SECTION 1
GENERAL INFORMATION**

1. File Information

APPLICATION # R-88698	PERMIT # (IF APPLICABLE) R-15391	PERMIT AMENDMENT # (IF APPLICABLE) NA
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2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME Townsend Farms Inc		PHONE NO.	ADDITIONAL CONTACT No.
ADDRESS 23400 NE Townsend Way			
CITY Fairview	STATE OR	ZIP 97024	E-MAIL

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 Michael E Townsend			
ADDRESS 23400 NE Townsend Way			
CITY Fairview	STATE OR	ZIP 97024	

ADDITIONAL PERMIT HOLDER OF RECORD NA			
ADDRESS			
CITY	STATE	ZIP	

4. Date of Site Inspection:

May 24, 2024

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

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NAME	DATE	ASSOCIATION WITH THE PROJECT
Deke Gundersen	May 24, 2024	Food Safety Consultant and Permit Coordinator
Juan "Larry" Martinez	May 24, 2024	Farm Operations Supervisor

6. County

Clackamas County

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		
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.



CWRE NAME Doann Hamilton		PHONE NO. (503) 632-5016	ADDITIONAL CONTACT NO. (503) 349-6946
ADDRESS 18487 S. Valley Vista Road			
CITY Mulino	STATE OR	ZIP 97042	E-MAIL phgdmh@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
<i>Michael E. Townsend</i>	Michael E. Townsend	President	9-19-24

**SECTION 3
CLAIM DESCRIPTION**

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

RESERVOIR NAME OR NUMBER	SOURCE	TRIBUTARY
Snowberry Reservoir	Runoff	Tributary to Unnamed Stream

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)
Snowberry Reservoir	Multiple Purpose	December 1 through May 30	11.0 AF
Total Quantity of Water Stored			11.0 AF

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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:

The pond has a dam with a height of 9.9 feet and is lined and located off channel. The reservoir is partly dug into the ground surface with an east to west slope. Source of the water is runoff. Runoff is collected in a trench surrounding the reservoir containing a 6-inch drain pipe. The water is conveyed to a catch basin from which the water is then pumped into the reservoir.

A spillway is located on the west side of the reservoir through the dam. The spillway consists of a 12-inch-diameter corrugated pipe that discharges the overflow water onto rip rap below the downslope toe of the dam before flowing into a tributary to the North Fork of Deep Creek. There is no permanent outlet devise but if the impounded water needs to evacuated, a centrifugal pump will be used to empty 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 POD in this claim differs from the permit. Snowberry Reservoir is located off-channel and collects water from runoff. Runoff is collected in a trench surrounding the pond to avoid water seeping under the reservoir. The collected water empties into catch basin and is pumped into the reservoir. The POD's in this claim will represent the center of the dam and POD from the catch basin:

POD (center of the dam) is located 805 feet north and 1,900 feet west from the SE corner, Section 12.

POD (water from trench) is located 1,060 feet north and 1,960 feet west from the SE corner, Section 12.

5. Claim Summary:

RESERVOIR NAME OR #	MAXIMUM STORAGE AUTHORIZED BY PERMIT (AF)	MAXIMUM STORAGE DEVELOPED (AF)
Snowberry Reservoir	9.48 AF	11.0 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.

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

Snowberry Reservoir

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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
Center of the Dam	2S	3E	WM	12	SW SE	NA	NA	805 feet north and 1,900 feet west from the SE corner, Section 12.
Water from the trench	2S	3E	WM	12	SW SE	NA	NA	1,060 feet north and 1,960 feet west from the SE corner, Section 12.

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)
Unknown	Unknown	Unknown	Submersible

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)
Estimated 3 Hp	20 psi	14.0 feet	0 feet	0.33 cfs

4. Provide pump calculations:

$$Q \text{ Pump} = \frac{(3.0 \text{ Hp}) \times (7.04 \text{ ft}^4/\text{sec Hp})}{(14.0 \text{ ft lift} + 50.8 \text{ ft pressure head})} = 0.33 \text{ cfs}$$

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)
Not running during site visit			

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

6. Additional notes or comments related to the system:

Water is collected from runoff in a trench surrounding the reservoir consisting of 6-inch drain tiles discharging into a 16-foot-deep catch basin. A float control is installed in the catch basin. Once the water level reaches a specific height, the sump pump kicks on and discharges the water into Snowberry Reservoir through a 4-inch buried PVC pipe to the south approximately 40 feet. The PVC then angles to the surface and up over and into the reservoir in the northwest corner.

Whenever the pond is filled, and there is no need to continue pumping water from the catch basin, overflow water can be drained from the catch basin through a 12-inch-diameter PVC pipe which exits the catch basin at a depth of about 11 feet from the top of the catch basin. The catch basin drain pipe extends to the southwest and discharges into the creek below the pond along with water from the spill way. Discharge through the catch basin drain pipe is controlled using a gate valve which is located approximately 5 feet from the catch basin. The gate valve is accessed through a vertical 8-inch PVC pipe.

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? **NO**

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

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? **NO**

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

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
NA			

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)
11 feet	8 feet	2.5 acres	11.0 AF

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4. Provide reservoir volume calculations:

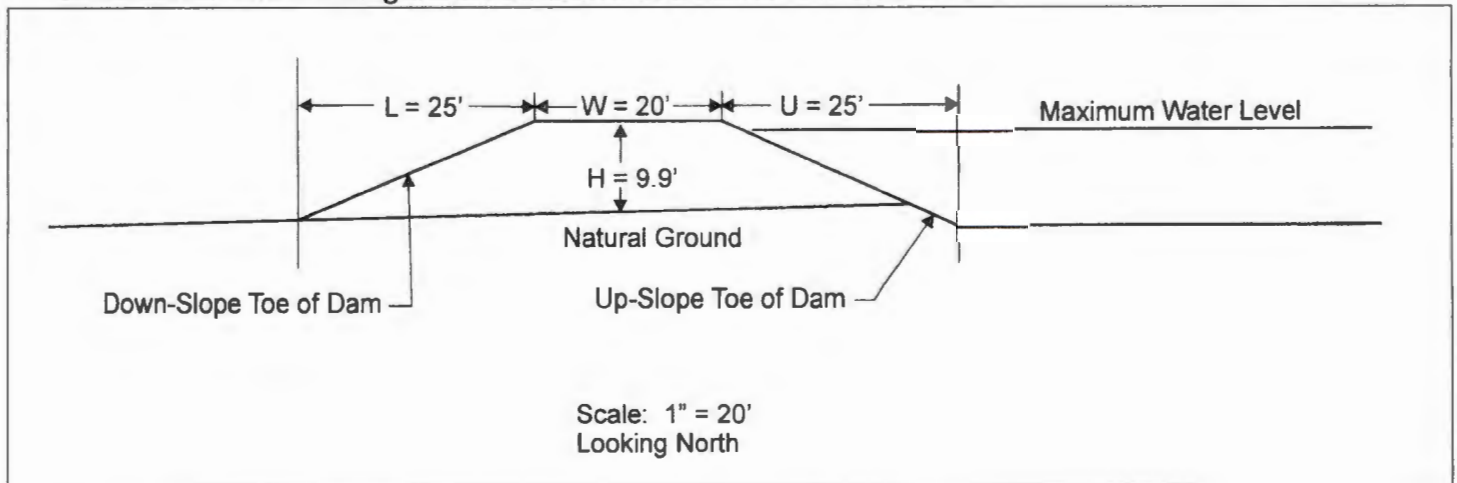
Volume = (surface area in acres) x (maximum depth) x 0.4

Volume = (2.5 Acres) x (11.0 feet) x 0.4 = 11.0 AF

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
20 feet	9.9 feet	25 feet	25 feet	9.75 feet	40% or 1:3	44% or 1:2

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):

If evacuation of the impounded water is needed, a submersible pump will be used.

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

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
SPILL WAY IS A 12-INCH- DIAMETER CORRUGATED PIPE		

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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	May 29, 2019		
BEGIN CONSTRUCTION (A)	NA	NA	NA
COMPLETE CONSTRUCTION (B)	May 29, 2024	May 22, 2024	Installation of staff gauge
COMPLETE APPLICATION OF WATER (C)	May 29, 2024	May 22, 2024	All the permit conditions were met and the reservoir was fully impounded.

* 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
Snowberry Reservoir	"C" style staff gauge	NA	Working	9.75 feet	May 22, 2024

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? NO

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

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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? **NO**

If "YES", items c relating to this section may be deleted.

c. Does the water user have other means to evacuate the reservoir? **YES**

DESCRIBE HOW THE WATER USER PLANS TO EVACUATE THE RESERVOIR	HAS THIS PLAN BEEN APPROVED BY THE DEPARTMENT?	BY WHOM?
Use of a submersible pump	Unknown	Townsend farm

6. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **NO**

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

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? **NO**

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

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? **YES**
- 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? **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) Condition:

If the riparian area is disturbed in the process of developing a point of diversion, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR 635, Division 415, shall be followed.

Compliance:

Pond only collects runoff and is lined and built off channel. Water from the spillway and catch basin discharge onto riprap to protect the land surface.

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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

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.

The COBU map was prepared using tax assessor's map 2 3E 12, overlain by a 2014 aerial photo titled USDA-FSA-APFO NAIP County Mosaic and obtained on line from the Natural Resources Conservation Service, Image Metadata: <http://datagateway.nrcs.usda.gov/Catalog/ProductDescription/NAIPM.html>.

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")

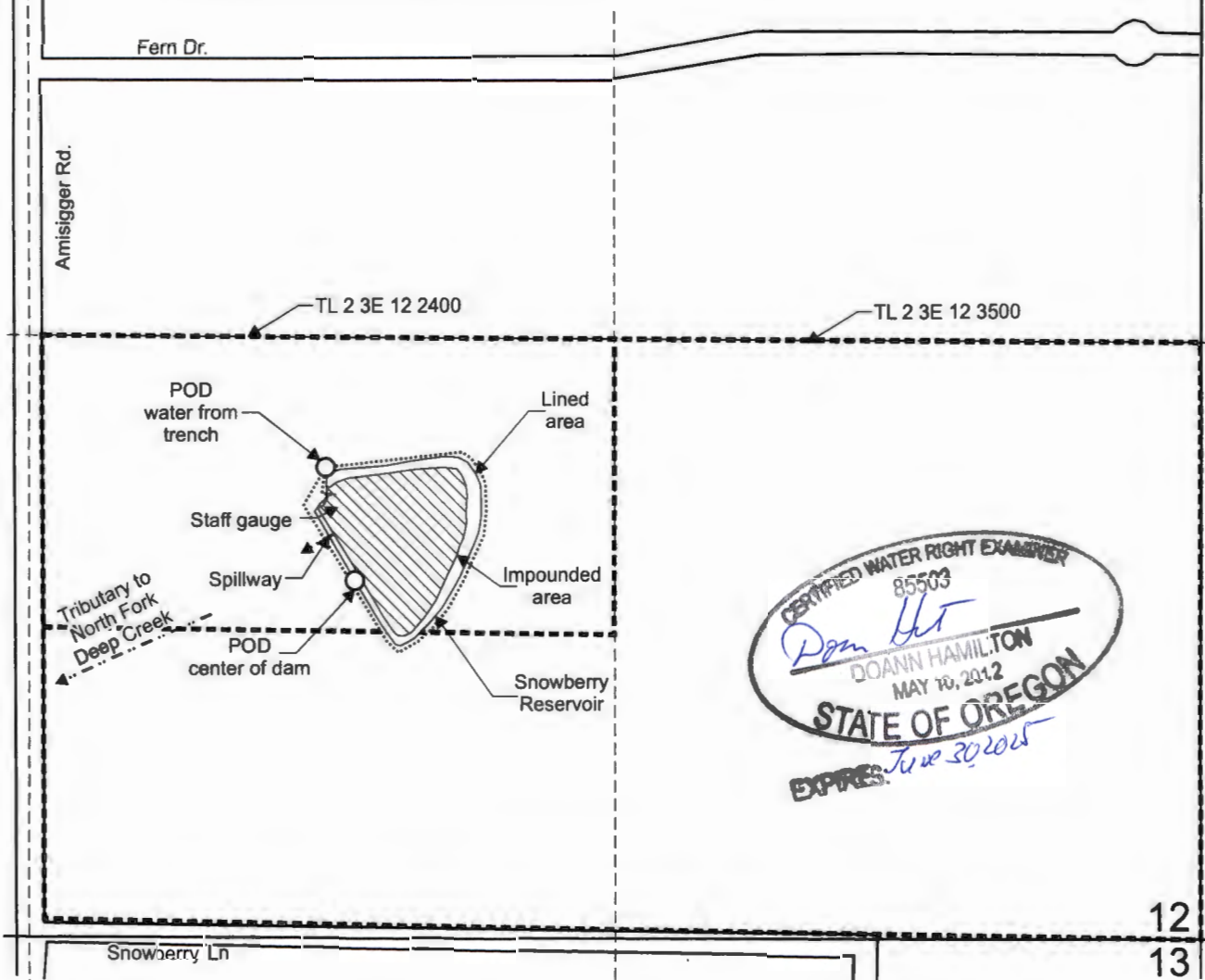
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature

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T.2S. R.3E. Section 12, W.M.

POD (center of the dam) is located 805 feet north and 1,900 feet west from the SE corner, Section 12.
POD (water from trench) is located 1,060 feet north and 1,960 feet west from the SE corner, Section 12

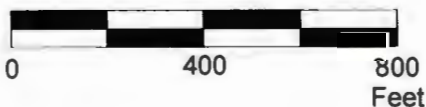
-  Snowberry Reservoir Area (2.5 acres inundated) under Application R-88698, Permit R-15391
-  Tax lot boundary
-  6 inch drain tile into catch basin, then pumped into pond



CERTIFIED WATER RIGHT EXAMINER
85503
Don H
DOANN HAMILTON
MAY 10, 2012
STATE OF OREGON
EXPIRES: *June 30, 2025*

12	7
13	18

Scale: 1" = 400'



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.



Claim of Beneficial Use Map Application R-88698, Permit R-15391

Pacific Hydro-Geology Inc.

Michael Townsend
T.2S. R.3E. Section 12, W.M.