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

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

This COBU is for a permit with a priority date of July 20, 1982; the $230 fee is not applicable.

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

SECTION 1
GENERAL INFORMATION

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1. File Information:

APPLICATION #	PERMIT #	PERMIT AMENDMENT #
S-61486	S-46813	T-

2. Property Owner (current owner information):

Applicant/Business Name		Phone No.	Additional Contact No.
Daniel Arriola		541-404-2829	
Address PO Box 1200			
City Bandon	State OR	Zip 97411	E-Mail Danielarriola533@yahoo.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		
Daniel Arriola		
Address PO Box 1200		
City Bandon	State OR	Zip 97411

Additional Permit Holder of Record		
Address		
City	State	Zip

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JAN 21 2025
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4. Date of Site Inspection:

10/19/2024

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

Name	Date	Association with the Project
Tony Arriola	10/19/2023, 10/23/2024	Arriola Cranberry Company
Daniel Arriola	10/23/2024	Arriola Cranberry Company
Alan Foster	10/18/2024	Former permit holder and landowner

6. County

Coos

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

CERTIFIED WATER RIGHT EXAMINER
78185
THEODORE R RESSLER
JUNE 29, 2007
STATE OF OREGON
RENEWS: 12-31-2026

CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Theodore R. Ressler		503-701-4535	
ADDRESS Summit Water Resources, LLC, 4784 SE 17th Avenue, Suite 111			
CITY Portland	STATE OR	ZIP 97202	E-MAIL tressler@summitwr.com

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
	Daniel Arriola	Owner	1-8-25

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SECTION 3

CLAIM DESCRIPTION

1. Point of diversion name or number:

POINT OF DIVERSION (POD) NAME OR NUMBER (CORRESPOND TO MAP)
POD 1

2. Point of diversion source and tributary:

POD NAME OR NUMBER	SOURCE	TRIBUTARY
POD 1	**Abe's Creek**	**Croft Lake**
POD 1	**Reservoir 1 (storage under Permit R-8453)**	**Abe's Creek**

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)
POD 1	**TC**	**NA**	**Year-round**	**0.43 cfs**
POD 1	**IS**	**Cranberries**	**Irrigation season**	**1.2 AF**
POD 1	**CH**	**NA**	**Sept to Dec**	**0.02 cfs**
Total Quantity of Water Used				**0.43 cfs for TC** **1.2 AF for IS** **0.02 cfs for CH**

TC = temperature control, IS = supplemental irrigation, CH = flood harvesting of cranberries

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:

Live flow from Abe's Creek and stored water from Reservoir 1 are diverted at the same pump station on Reservoir 1 (Reservoir 1 is an on-channel reservoir). The diverted water is conveyed by pipe to the cranberry bogs where the water is used for temperature, supplemental irrigation, and flood harvesting of cranberries.

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. **YES**

(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."*)

Point of Diversion. The location of the point of diversion has been re-described slightly from that stated on the permit to more accurately locate the point of diversion.

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
POD 1	**0.43 cfs**	**0.45 cfs**	**Not measured**	**TC**	**2.85**	**2.85**
POD 1	**1.2 AF**	**1.2 AF**	**Not measured**	**IS**	**0.35**	**0.35**
POD 1	**0.02 cfs**	**0.02 cfs**	**Not measured**	**CH**	**5.96**	**4.80**

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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):

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
30S	15W	WM	11	NESW	--	--	TC IS CH	2.85 -- 4.80	-- 0.35 --
Total Acres Irrigated								2.85 ac (TC) -- 4.80 ac (CH)	-- 0.35 ac (IS) --

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
Cornell	2.5WH-15-2	Not available	Centrifugal	3-inch	2.5-inch

3. Motor Information:

MANUFACTURER	HORSEPOWER
Baldor	15

4. Theoretical Pump Capacity:

Horsepower	Operating PSI	Lift from Source to Pump	Lift from Pump to Place of Use	Total Pump Output (in cfs)
15	65 [A]	5 [B]	0 [C]	0.58 cfs

Notes:

[A] Estimate pressure just downstream of pump discharge.

[B] Vertical lift was water surface to pump discharge.

[C] Lift downstream of pump discharge is a component of the operational pressure.

5. Provide pump calculations:

$$Q_{pump} = \frac{(Hp)(\text{conversion factor})}{(\text{lift} + \text{pressure})} = \text{cfs}$$

total head in feet

Conversion factor:

Centrifugal Pumps, 75% eff. $\frac{(550 \text{ ft lb/sec/Hp})(.75)}{(62.4 \text{ lb/cu ft})} = 6.61 \text{ ft}^4\text{/sec/Hp}$

$$Q_{pump} = \frac{(15)(6.61)}{(5 + 65*2.54)} = 0.58 \text{ cfs} = 260 \text{ gpm}$$

Note: minor frictional losses upstream of the pump (suction line, etc.) accounted for by the 2.54 ft H2O/psi conversion factor (versus 2.31 ft H2O/psi).

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)
Not measured			

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
4-inch	6,300 feet	PVC	Buried

9. Lateral or Handline Information:

Lateral or Handline Size	Length	Type of Pipe	Buried or Above Ground
1.25-inch	Varies by bog	PVC	Buried

10. Sprinkler Information:

Size	Operating PSI	Sprinkler Output (gpm)	Total Number of Sprinklers	Maximum Number Used	Total Sprinkler Output (cfs)
Nelson R-2000 LP red nozzle	40	2.9	188	70	0.45 cfs

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)
N/A – none used					

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
N/A – none used					

13. Pivot Information:

Manufacturer	Maximum Wetted Radius	Operating PSI	Total Pivot Output (gpm)	Total Pivot Output (cfs)
N/A – none used				

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.

3. Bulge in System / Reservoir:

Reservoir Name or Number (correspond to map)	Approximate Dam Height	Approximate Capacity (in acre feet)
Reservoir 1	7 ft*	12.8 AF*

***Refer to COBU for Permit R-8453**

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**

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

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**

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

F. Additional notes or comments related to the system:

Water used for temperature control and flood harvesting, and any portion of the irrigation water applied that is not utilized by the cranberries, is collected and return to the reservoir and system bulges for reuse at the farm.

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	8/16/1982		
Begin construction (A)	8/16/1983	Prior to 1983	Reservoir 1 was an existing storage facility under prior water rights. Began construction of cranberry bogs.
Complete construction (B)	10/1/1984	Prior to 10/1/1984	Completed construction of cranberry bogs (Attachment 3).
Complete application of water (C)	10/1/1985	Prior to 10/1/1985	Completed use of water on cranberry bogs (Attachment 3).

* 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? **NO**

If "NO", items b 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? **Reporting of water use required only for water used for temperature control**

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

b. Have the reports been submitted? **NO**

If the reports have not been submitted, attach a copy of the reports if available. **Attachment 4**

5. 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.

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? **NO**

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

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

d. 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):

SECTION 6

ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Attachment 1	**Maps**
Attachment 2	**Water Right Information**
Attachment 3	**Supporting Documentation of Beneficial Use**
Attachment 4	**Water Used for Temperature Control**

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 reservoir was visited during the site inspection. The location of the dam (point of diversion) and the extent of the reservoir pool were established using an aerial photograph (August 28, 1985). The map was created using Geographic Information System (GIS) software and spatial datasets obtained from Bureau of Land Management (BLM), Oregon Water Resources Department (OWRD), Oregon Geospatial Enterprise Office (OGEO), United States Geological Survey (USGS), and Coos County. Additional data and information specific to the use water of under the water right described in this Claim of Beneficial Use report were obtained from the water user.

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
- **N/A** Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- **N/A** 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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JAN 21 2025
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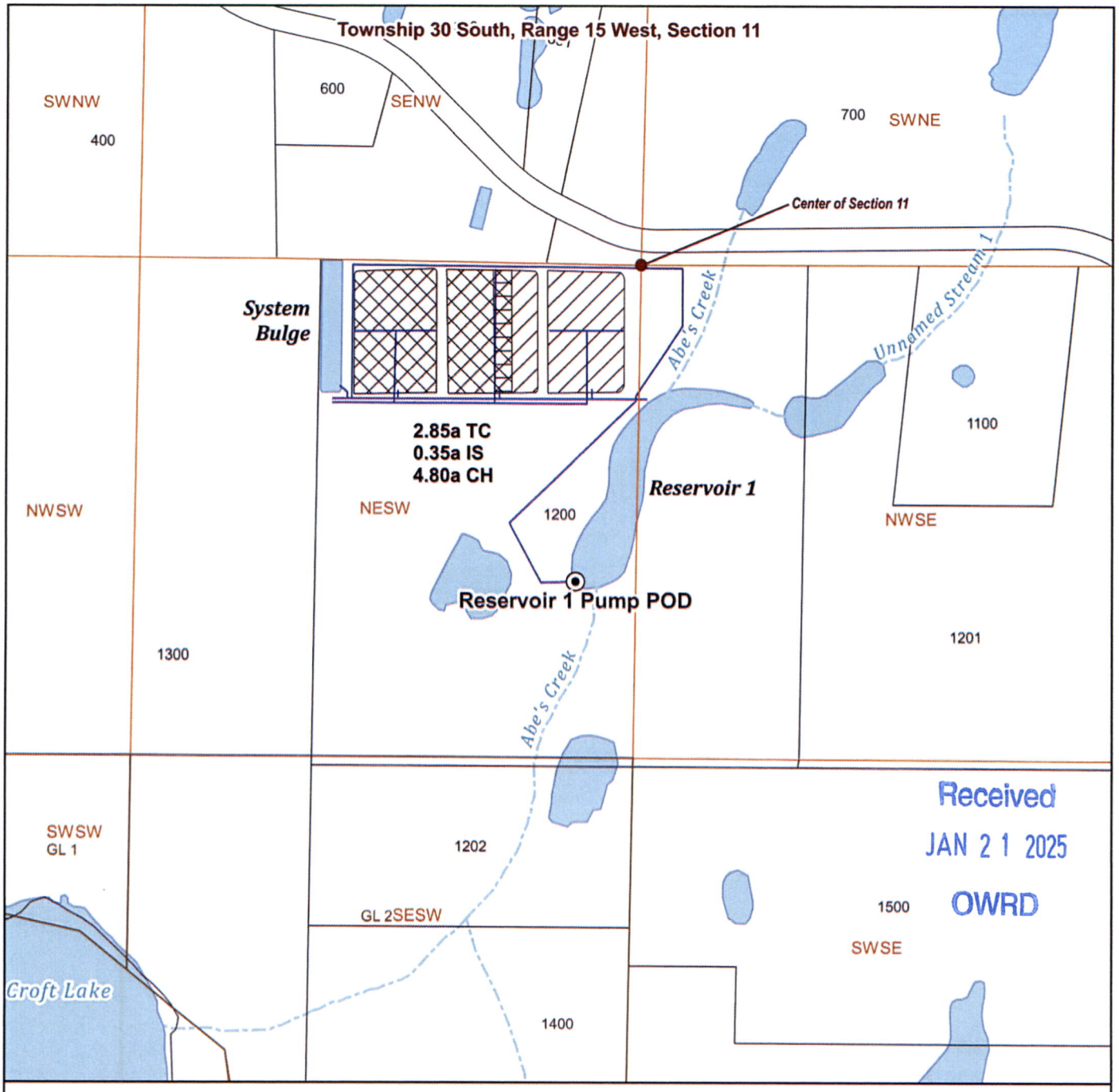
Attachment 1

Maps

Claim of Beneficial Use
Permit S-46813, Application S-61486

A Water Right held by Daniel Arriola
Coos County



LEGEND

- Tax lots
- Intermittent Watercourse
- Water Conveyance Mainlines
- Point of Diversion (POD)

Place of Use (POU)

- Supplemental Irrigation (IR under Cert. 51557)
- Temperature Control
- Flood Harvest

POD Location Description

Reservoir 1 Pump POD
Located 820 feet South and 165 feet West from center of Section 11 (NESW), Township 30 South, Range 15 West, W.M.

CERTIFIED WATER RIGHT EXAMINER
78185
THEODORE R RESSLER
JUNE 29, 2007
STATE OF OREGON
RENEWS: 12-31-2026

N

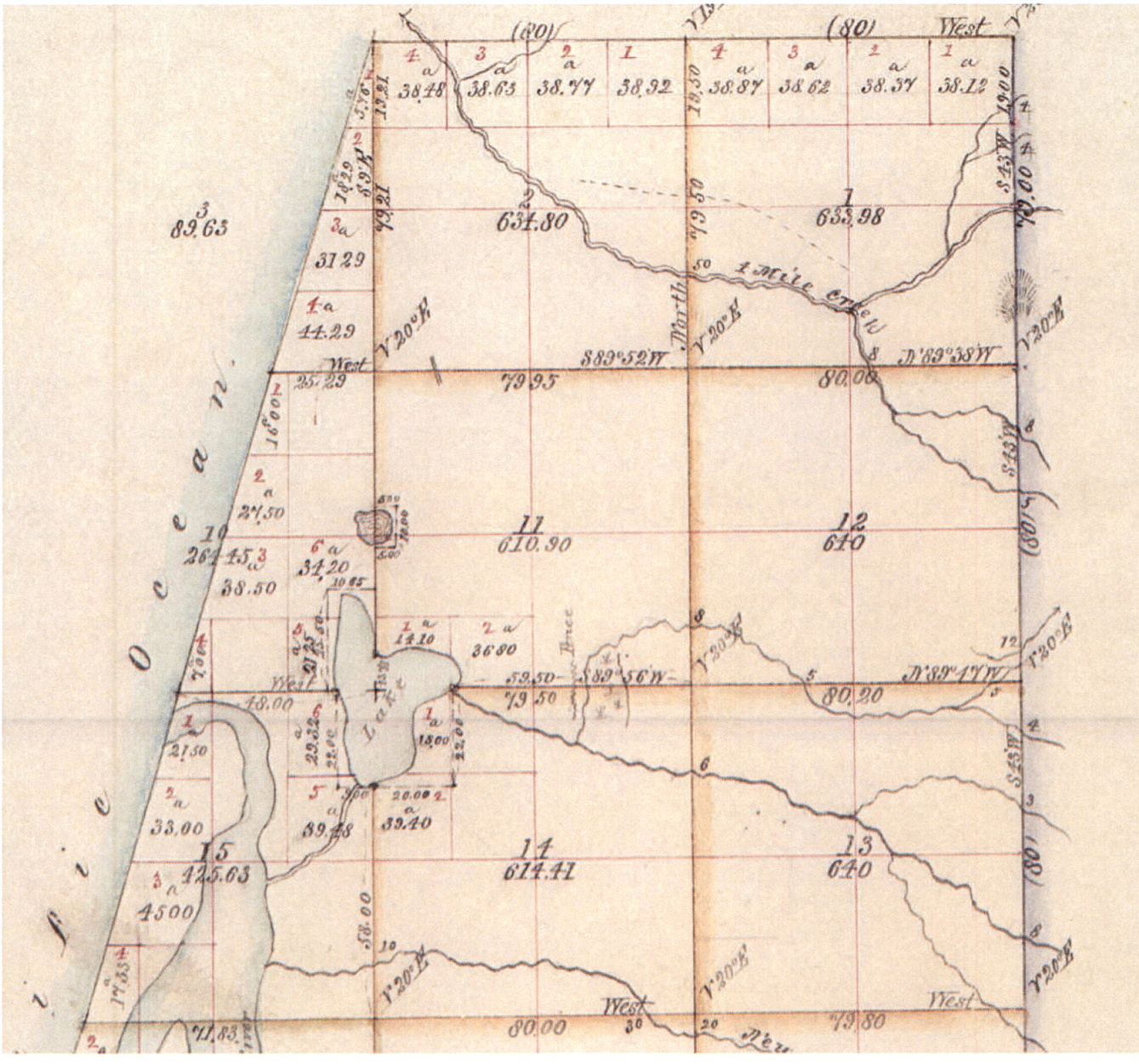
Scale
0 200 400 ft
1-inch = 400 feet

Date: 9/2/2024
Data Sources: BLM, OWRD, OGEO, USGS, Coos County.
Disclaimer: This map is not intended to provide legal dimensions or property ownership lines.

summit WATER RESOURCES

Project\Arriola_Daniel\0_GIS\1_SWR_Files\1_SWR_Maps\Croft-Lake-Farm.qgz

https://www.blm.gov/or/landrecords/survey/yPlatView1_2.php?path=POR&name=t300s150w_003.jpg



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Attachment 2

Water Right Information

Oregon
Tina Kotek, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone 503 986-0900
Fax 503 986-0904
www.oregon.gov/owrd

December 16, 2024

Geo-Logic Associates
2777 E. Guasti Rd STE 1
Ontario, CA 91761

Reference: Application S-61486, Permit S-46813

The assignment from Alan and Elizabeth Foster to Daniel Arriola has been recorded in the records of the Water Resources Department.

The Departments records will now show Daniel Arriola as the permit holder of record.

Our records have been changed accordingly and the original request is enclosed. Receipt number 144370 covering the recording fee is also enclosed.

A permit is not a perfected water right, and has conditions and timelines that must be satisfied prior to a Certificate of Water Right being issued. Please review the permit to be familiar with the conditions and timelines contained in the permit.

Sincerely,

Mary F. Bjork
Water Rights Program Analyst
Water Right Services Division

Enclosure: Original Request and Receipt #144370

cc: Alan Foster – PO Box 512, Langlois, OR 97450
Elizabeth Foster – 1199 E 14th St, Coquille, OR 97423
Daniel Arriola – PO Box 1200, Bandon, OR 97411
Ted Ressler, Summit Water Resources, LLC – 4784 SE 17th Ave, Ste 111, Portland, OR 97202
Data Center, OWRD (cover letter & request)
File

Received
JAN 21 2025
OWRD

Request for Assignment

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

If the Department determines that the application is incomplete, fees have not been paid, or the required documents are not acceptable, the application and all fees submitted will be returned to the applicant.

If for multiple rights, a separate form and fee for each right will be required.

I, 1) Alan Foster 2) Elizabeth Foster
(Name of Current Holder of Record)

1) PO Box 512 Langlois OR 97450 2) 1199 E 14th Coquille OR 97423
(Mailing Address) (City) (State) (Zip) (Phone #) *(Mailing Address) (City) (State) (Zip) (Phone #)*
541-551-0321 (541) 253-1078

☒ hereby assign all my interest in and to the entire application/permit/transfer order/limited license/groundwater statement; (example, sold all the land authorized under the right)

☐ hereby assign all my interest in and to a portion of application/permit/transfer order/limited license/groundwater statement; *(You must include a map showing the portion of the application/permit/transfer order/limited license/groundwater statement to be assigned.* Example, sold a portion of the land authorized under the right*)*

☐ hereby assign a portion of my interest in and to the entire application/permit/transfer order/limited license/groundwater statement; (example, adding an additional person)

Received DEC 12 2024 OWRD

Application # S-61486 ; Permit # S-46813 ; Transfer Order # _____ ;

Limited License # _____ ; Groundwater Statement # _____ ;

as filed in the office of the Water Resources Director, to:

Daniel Arriola
(Name of New Owner)

PO Box 1200 Bandon OR 97411 541-404-2829
(Mailing Address) *(City) (State) (Zip) (Phone #)*

Note: If there are other owners of the property described in the application, permit, transfer order, limited license, or groundwater statement, you must provide a list of all other owners' names and mailing addresses and attach it to this form. Write the initials (first letters) of your first and last names at the spot indicated below_.

✓ I hereby certify that I have notified all other owners of the property described in this application, permit, transfer order, limited license, or groundwater statement of this Request of Assignment.

Witness my hand this 18th day of October, 2024.
(Day) (Month) (Year)

Signature of Current Holder of Record 1) [signature] 2) [signature]

Failure to provide any of the required information will result in the return of your application.

Assign - Approve MFB 12-16-2024

This certifies assignment and record change at Oregon Water Resources Department effective 8:00 a.m. on date of receipt at Salem, Oregon.
Fee receipt # 144370
For Director by Mary F. Bjork, Program Analyst in Water Rights Division. MFBjork

The completed "Request for Assignment" form *must* be submitted to the Department along with the recording fee of $120.

Received JAN 21 2025 OWRD

Oregon
John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

July 14, 1998

ALAN & ELIZABETH FOSTER
PO BOX 412
LANGLOIS OR 97450

REFERENCE: Files 61486 & R-61485

The assignment of Permits 46813 and R-8453 from James and Marion McBee to you has been recorded in the records of the Water Resources Department.

Our records have been changed accordingly and the original is enclosed along with our receipt number 22414 covering the recording fee of $25 you submitted. The excess fee of $35 will be refunded to you as soon as possible.

Sincerely,

DALLAS S. MILLER
Water Rights Specialist

DSM:jh

Enclosure

cc: John Drolet, Watermaster
Sue DeHaas, Grants Pass Office
James & Marion McBee

REQUEST FOR ASSIGNMENT

I, (permit holder, applicant) James C. and Marion M. McBee

P.O. Box 358 Bandon OR 97411 347-3328

(mailing address) (city) (state) (zip) (phone)

CHECK ONE

[X - hereby assign all my interest in and to application/permit;

[ ] - hereby assign all my interest in and to a portion of application/permit (include a map showing portion of application assigned);

[ ] - hereby assign a portion of my interest in and to the entire application/permit;

Application # 61486 + R61485, Permit # 46815 + R8453

OR GR Statement # _____, GR Certificate of Registration # _____ as filed in the office of the Water Resources Director, TO:

Alan and Elizabeth E. Foster 541-348-9980

(name of new owner) (phone #)

P.O. Box 412 Langlois OR 97450

(address) (city) (state) (zip)

(Note: If there are other owners of the property described in this Application, Permit of Certificate of Groundwater Registration you must attach a list of their names and addresses to this form.)

I hereby certify that I have notified all other owners of the property described in this Application, Permit or Certificate of Registration of this request for assignment.

Received
JAN 21 2025
OWRD

Witness my hand this 26 day of June, 19 98

applicant/permit holder James C. McBee

applicant/permit holder Marion M. McBee

PLEASE DO NOT WRITE IN THIS BOX

STATE OF OREGON,)
) ss
County of Marion.)
I certify that the within was received by me on the 30th day of June, 1998, at 8 o'clock A m., and was recorded in the Miscellaneous Records, Vol. 8
Page 203.
Water Resources Director

The completed assignment must be submitted to the Water Resources Department together with a recording fee of $25. Additional pages will cost $5 per page.

RECEIVED
JUN 30 1998
WATER RESOURCES DEPT.
SALEM, OREGON

WATER RESOURCES DEPARTMENT
158 12TH STREET NE
SALEM, OREGON 97310-0210

m:\groups\wr\support\janet\forms\assignment request

OK
DSM

STATE OF OREGON

COOS COUNTY

PERMIT TO APPROPRIATE THE PUBLIC WATERS

This is to certify that I have examined APPLICATION 61486 and do hereby grant the same SUBJECT TO EXISTING RIGHTS INCLUDING THE APPROPRIATE MINIMUM FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD and the following limitations and conditions:

This permit is issued to James C. and Marion M. McBee of 88869 Evers Road, Elmira, Oregon 97437, phone 935-7326, for the use of the waters of Abe's Creek and reservoir enlarged under Application R-61485, Permit R-8453, for the PURPOSE of temperature control, supplemental irrigation and flood harvesting, being 0.43 cubic foot of water per second for temperature control, 1.2 acre-feet of stored water only for supplemental irrigation and 0.02 cfs for flood harvesting; that the PRIORITY OF THE RIGHT dates from July 20, 1982, and is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.43 cfs measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users.

The POINT OF DIVERSION is to be LOCATED: 920 feet South and 120 feet West from the Center of Section 11, being within the NE 1/4 SW 1/4 of Section 11, Township 30 South, Range 15 West, WM, in the County of Coos.

A description of the PLACE OF USE under the permit, and to which such right is appurtenant, is as follows:

Township 30 South	Range 15 West, WM	Section 11	NE 1/4	SW 1/4	2.85 acres temperature control, 0.35 acre supplemental irrigation and 5.96 acres flood harvest

If for irrigation, this appropriation shall be limited to a diversion of not to exceed 3.0 acre-feet per acre for each acre irrigated during the irrigation season of each year, for cranberries. If for the irrigation of any other crop, this appropriation shall be limited to a diversion of not to exceed 2.5 acre-feet per acre for each acre irrigated during the irrigation season of each year, provided further that the right allowed herein shall be limited to any deficiency in the available supply of any prior right existing for the same land and shall not exceed the limitation allowed herein, and shall be subject to such reasonable rotation system as may be ordered by the proper state officer. The permittee shall record and submit annually to the Water Resources Department all pertinent data pertaining to use of water for temperature control on forms furnished.

Actual construction work shall begin on or before August 16, 1983 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1984.

Complete application of the water to the proposed use shall be made on or before October 1, 1985.

WITNESS my hand this 16th day of August, 1982.

/s/ JAMES E. SEXSON
WATER RESOURCES DIRECTOR

APPLICATION 61486

PERMIT 46813

RECORDED. See Misc. Rec., Vol. 8 Page 203

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Attachment 3

Supporting Documentation of Beneficial Use

AFFIDAVIT ATTESTING TO USE OF WATER UNDER PERMIT R-8453 AND PERMIT S-46813

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State of Oregon)
) ss
County of Coos

I, Alan Foster, in my capacity as owner and farm operator, mailing address P.O. Box 512 Langlois OR 97450, telephone number 541-551-0321, being first duly sworn depose and say:

1. My knowledge of the use of the water under Permit R-8453 and Permit S-46813 is based on my personal observation and use of water under these water rights.

2. The storage of water as described in the Claim of Beneficial Use for Permit R-8453 is representative of the water storage that was occurring in Reservoir 1 prior to October 1, 1984.

3. The use of water as described in the Claim of Beneficial Use for Permit S-46813 is representative of the water use that was occurring as part of the cranberry farming operations prior to October 1, 1985.

4. Exhibit 1 accurately shows the location of Reservoir 1 prior to October 1, 1984 and the location where water was used as part of the cranberry farming operations prior to October 1, 1985.

Signature of Affiant

10-18-24
Date

Signed and sworn to (or affirmed) before me this 18 day of October, 2024.

OFFICIAL STAMP
VINCENTE ANGEL NUNES-NAVA
NOTARY PUBLIC - OREGON
COMMISSION NO. 1050694
MY COMMISSION EXPIRES AUGUST 12, 2028

Notary Public for Oregon

My Commission Expires: 8-12-28

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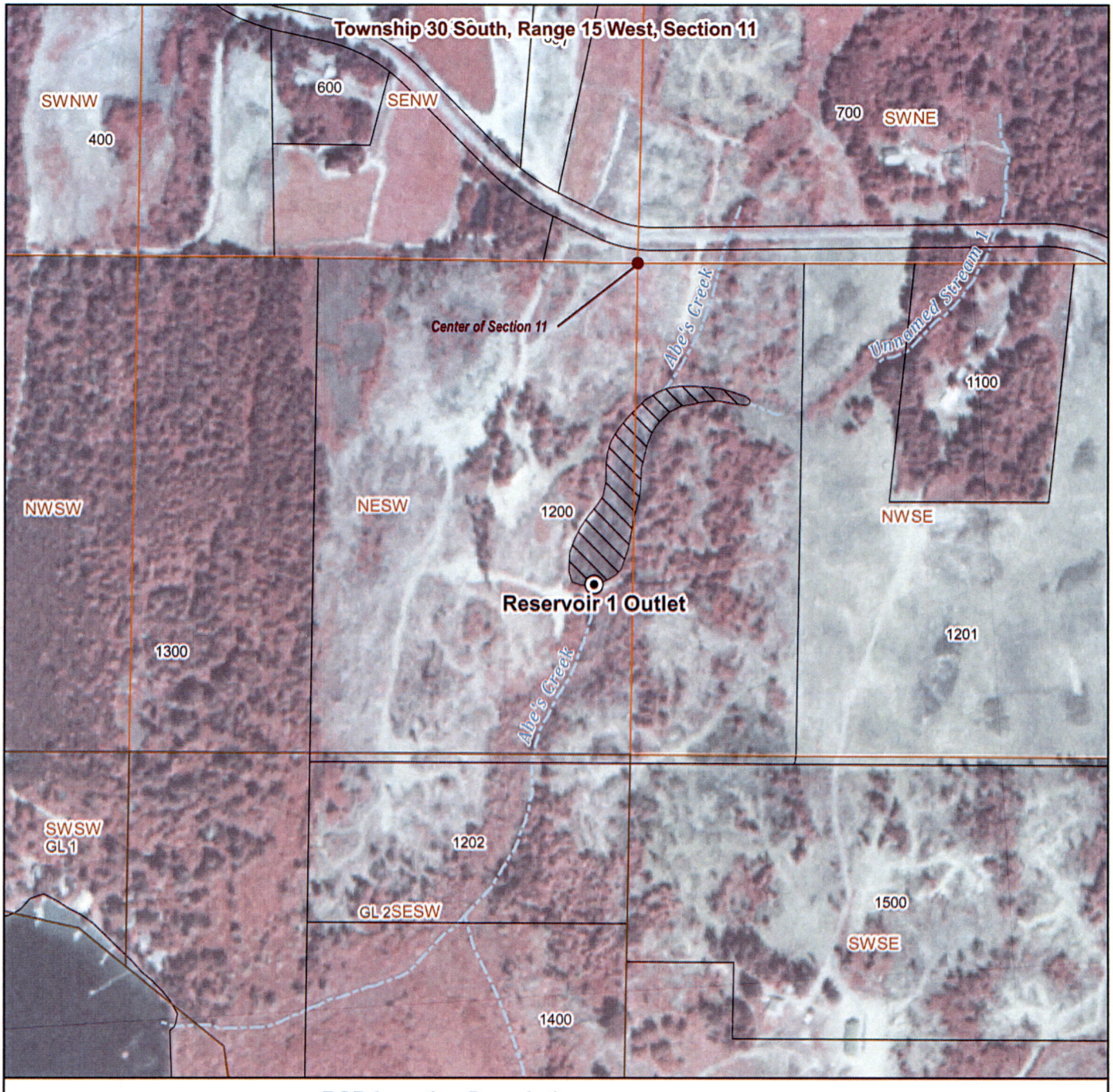
Exhibit 1
Location of Water Use

Claim of Beneficial Use

Permit R-8453, Application R-61485

A Water Right held by Daniel Arriola
Coos County



LEGEND

- Point of Diversion (POD)
- Place of Use (POU)
- Intermittent Watercourse
- Tax lots

POD Location Description

Dam Outlet
Located 840 feet South and 105 feet West from center of Section 11 (NESW), Township 30 South, Range 15 West, W.M.

Aerial Photo Date: 8/16/1982
Source: USGS EROS Archive

N

Scale
0 200 400 ft
1-inch = 400 feet

Date: 9/9/2024
Data Sources: BLM, OWRD, OGEO, USGS, Coos County.
Disclaimer: This map is not intended to provide legal dimensions or property ownership lines.

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Claim of Beneficial Use
Permit R-8453, Application R-61485

A Water Right held by Daniel Arriola
Coos County

LEGEND

- Point of Diversion (POD)
- Place of Use (POU)
- Intermittent Watercourse
- Tax lots

POD Location Description

Dam Outlet
Located 840 feet South and 105 feet West from center of Section 11 (NESW), Township 30 South, Range 15 West, W.M.

Aerial Photo Date: 8/28/1985
Source: USGS EROS Archive

N

Scale
0 200 400 ft
1-inch = 400 feet

Date: 9/9/2024
Data Sources: BLM, OWRD, OGEO, USGS, Coos County.
Disclaimer: This map is not intended to provide legal dimensions or property ownership lines.

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Claim of Beneficial Use

Permit S-46813, Application S-61486

A Water Right held by Daniel Arriola
Coos County

LEGEND

- Tax lots
- Intermittent Watercourse
- Water Conveyance Mainlines
- Point of Diversion (POD)

Place of Use (POU)

- Supplemental Irrigation (IR under Cert. 51557)
- Temperature Control
- Flood Harvest

POD Location Description

Reservoir 1 Pump POD
Located 820 feet South and 165 feet West from center of Section 11 (NESW), Township 30 South, Range 15 West, W.M.

N

Scale
0 200 400 ft
1-inch = 400 feet

Date: 9/9/2024
Data Sources: BLM, OWRD, OGEO, USGS, Coos County.
Disclaimer: This map is not intended to provide legal dimensions or property ownership lines.

Aerial Photo Date: 8/28/1985
Source: USGS EROS Archive

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Attachment 4

Water Used for Temperature Control

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Water Used for Temperature Control - FROST
Permit S-46813 (Application S-61486)
Daniel Arriola

Temperature trigger for frost: < 32.5°F March, < 33.5°F April and August, < 35°F May and June, < 34°F July, < 33°F September through December. 200 gpm application during frost control, with incremental cycling of application per bog.

NOTE: water applied is collected and returned to the system bulges for re-use

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
3/5/1984	32	12	200	144,000	2.85
5/6/1984	33	8	200	96,000	2.85
11/2/1984	33	10	200	120,000	2.85
11/26/1984	33	10	200	120,000	2.85
12/1/1984	33	12	200	144,000	2.85
12/10/1984	26	12	200	144,000	2.85
12/12/1984	27	12	200	144,000	2.85
12/16/1984	31	12	200	144,000	2.85
12/18/1984	31	12	200	144,000	2.85
12/19/1984	26	12	200	144,000	2.85
12/20/1984	27	12	200	144,000	2.85
12/24/1984	33	12	200	144,000	2.85
12/26/1984	33	12	200	144,000	2.85
12/28/1984	33	12	200	144,000	2.85
3/6/1985	32	12	200	144,000	2.85
3/7/1985	29	12	200	144,000	2.85
3/8/1985	31	12	200	144,000	2.85
3/14/1985	32	12	200	144,000	2.85
3/15/1985	31	12	200	144,000	2.85
3/25/1985	32	12	200	144,000	2.85
3/28/1985	32	12	200	144,000	2.85
4/30/1985	32	10	200	120,000	2.85
10/9/1985	27	8	200	96,000	2.85
10/13/1985	33	8	200	96,000	2.85
10/29/1985	32	8	200	96,000	2.85
11/10/1985	31	10	200	120,000	2.85
11/11/1985	27	10	200	120,000	2.85
11/12/1985	28	10	200	120,000	2.85
11/13/1985	29	10	200	120,000	2.85
11/16/1985	29	10	200	120,000	2.85
11/18/1985	33	10	200	120,000	2.85
11/23/1985	22	10	200	120,000	2.85
11/24/1985	24	10	200	120,000	2.85
11/25/1985	25	10	200	120,000	2.85
11/26/1985	29	10	200	120,000	2.85
11/27/1985	33	10	200	120,000	2.85
11/29/1985	30	10	200	120,000	2.85
11/30/1985	27	10	200	120,000	2.85
12/9/1985	30	12	200	144,000	2.85
12/10/1985	29	12	200	144,000	2.85
12/11/1985	27	12	200	144,000	2.85
12/12/1985	30	12	200	144,000	2.85
12/13/1985	29	12	200	144,000	2.85
12/14/1985	27	12	200	144,000	2.85
12/16/1985	29	12	200	144,000	2.85
12/18/1985	31	12	200	144,000	2.85
12/19/1985	29	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
12/20/1985	29	12	200	144,000	2.85
12/21/1985	29	12	200	144,000	2.85
12/25/1985	32	12	200	144,000	2.85
12/27/1985	32	12	200	144,000	2.85
12/30/1985	31	12	200	144,000	2.85
4/3/1986	33	10	200	120,000	2.85
4/30/1986	33	10	200	120,000	2.85
11/30/1986	30	10	200	120,000	2.85
12/1/1986	33	12	200	144,000	2.85
12/2/1986	32	12	200	144,000	2.85
12/7/1986	30	12	200	144,000	2.85
12/8/1986	31	12	200	144,000	2.85
12/9/1986	29	12	200	144,000	2.85
12/10/1986	31	12	200	144,000	2.85
3/7/1987	32	12	200	144,000	2.85
3/28/1987	32	12	200	144,000	2.85
3/29/1987	31	12	200	144,000	2.85
4/20/1987	24	10	200	120,000	2.85
11/28/1987	31	10	200	120,000	2.85
11/29/1987	32	10	200	120,000	2.85
12/12/1987	30	12	200	144,000	2.85
12/13/1987	26	12	200	144,000	2.85
12/17/1987	31	12	200	144,000	2.85
12/18/1987	29	12	200	144,000	2.85
12/19/1987	29	12	200	144,000	2.85
12/20/1987	32	12	200	144,000	2.85
12/23/1987	31	12	200	144,000	2.85
12/24/1987	26	12	200	144,000	2.85
12/25/1987	25	12	200	144,000	2.85
12/26/1987	29	12	200	144,000	2.85
3/7/1988	31	12	200	144,000	2.85
3/11/1988	28	12	200	144,000	2.85
3/12/1988	29	12	200	144,000	2.85
3/13/1988	31	12	200	144,000	2.85
3/15/1988	28	12	200	144,000	2.85
3/16/1988	30	12	200	144,000	2.85
3/17/1988	31	12	200	144,000	2.85
3/18/1988	32	12	200	144,000	2.85
4/8/1988	29	10	200	120,000	2.85
11/29/1988	29	10	200	120,000	2.85
12/15/1988	26	12	200	144,000	2.85
12/16/1988	29	12	200	144,000	2.85
12/17/1988	30	12	200	144,000	2.85
12/18/1988	29	12	200	144,000	2.85
12/25/1988	30	12	200	144,000	2.85
12/26/1988	31	12	200	144,000	2.85
3/3/1989	32	12	200	144,000	2.85
3/4/1989	32	12	200	144,000	2.85
12/10/1989	32	12	200	144,000	2.85
12/11/1989	31	12	200	144,000	2.85
12/12/1989	31	12	200	144,000	2.85
12/14/1989	32	12	200	144,000	2.85
12/16/1989	29	12	200	144,000	2.85
12/17/1989	29	12	200	144,000	2.85
12/19/1989	28	12	200	144,000	2.85
12/20/1989	32	12	200	144,000	2.85

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Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
12/22/1989	31	12	200	144,000	2.85
12/25/1989	33	12	200	144,000	2.85
12/26/1989	31	12	200	144,000	2.85
12/29/1989	32	12	200	144,000	2.85
12/30/1989	30	12	200	144,000	2.85
11/6/1990	33	10	200	120,000	2.85
12/6/1990	31	12	200	144,000	2.85
12/7/1990	31	12	200	144,000	2.85
12/12/1990	31	12	200	144,000	2.85
12/13/1990	31	12	200	144,000	2.85
12/16/1990	32	12	200	144,000	2.85
12/19/1990	32	12	200	144,000	2.85
12/20/1990	16	12	200	144,000	2.85
12/21/1990	8	12	200	144,000	2.85
12/22/1990	11	12	200	144,000	2.85
12/23/1990	25	12	200	144,000	2.85
12/24/1990	21	12	200	144,000	2.85
12/25/1990	26	12	200	144,000	2.85
12/26/1990	32	12	200	144,000	2.85
12/29/1990	22	12	200	144,000	2.85
12/30/1990	21	12	200	144,000	2.85
12/31/1990	29	12	200	144,000	2.85
3/8/1991	32	12	200	144,000	2.85
3/11/1991	32	12	200	144,000	2.85
3/15/1991	32	12	200	144,000	2.85
3/26/1991	30	12	200	144,000	2.85
4/11/1991	31	10	200	120,000	2.85
10/30/1991	33	8	200	96,000	2.85
11/30/1991	30	10	200	120,000	2.85
12/1/1991	30	12	200	144,000	2.85
12/2/1991	31	12	200	144,000	2.85
12/3/1991	33	12	200	144,000	2.85
12/11/1991	33	12	200	144,000	2.85
12/14/1991	32	12	200	144,000	2.85
12/15/1991	32	12	200	144,000	2.85
12/16/1991	32	12	200	144,000	2.85
12/20/1991	31	12	200	144,000	2.85
11/11/1992	33	10	200	120,000	2.85
11/29/1992	31	10	200	120,000	2.85
12/3/1992	32	12	200	144,000	2.85
12/4/1992	31	12	200	144,000	2.85
12/5/1992	32	12	200	144,000	2.85
12/6/1992	32	12	200	144,000	2.85
12/25/1992	32	12	200	144,000	2.85
12/30/1992	32	12	200	144,000	2.85
11/6/1993	33	10	200	120,000	2.85
11/7/1993	31	10	200	120,000	2.85
11/8/1993	31	10	200	120,000	2.85
11/14/1993	28	10	200	120,000	2.85
11/15/1993	30	10	200	120,000	2.85
11/19/1993	31	10	200	120,000	2.85
11/20/1993	29	10	200	120,000	2.85
11/21/1993	29	10	200	120,000	2.85
11/23/1993	32	10	200	120,000	2.85
11/24/1993	24	10	200	120,000	2.85
11/25/1993	27	10	200	120,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
11/26/1993	30	10	200	120,000	2.85
11/30/1993	33	10	200	120,000	2.85
12/6/1993	33	12	200	144,000	2.85
12/17/1993	33	12	200	144,000	2.85
12/18/1993	27	12	200	144,000	2.85
12/19/1993	28	12	200	144,000	2.85
12/20/1993	28	12	200	144,000	2.85
12/21/1993	28	12	200	144,000	2.85
12/22/1993	29	12	200	144,000	2.85
12/23/1993	28	12	200	144,000	2.85
12/24/1993	33	12	200	144,000	2.85
12/25/1993	32	12	200	144,000	2.85
12/27/1993	32	12	200	144,000	2.85
3/6/1994	31	12	200	144,000	2.85
3/21/1994	32	12	200	144,000	2.85
3/22/1994	32	12	200	144,000	2.85
4/5/1994	30	10	200	120,000	2.85
10/27/1994	32	8	200	96,000	2.85
11/18/1994	29	10	200	120,000	2.85
11/19/1994	32	10	200	120,000	2.85
11/21/1994	29	10	200	120,000	2.85
11/22/1994	30	10	200	120,000	2.85
11/26/1994	33	10	200	120,000	2.85
12/3/1994	33	12	200	144,000	2.85
12/4/1994	26	12	200	144,000	2.85
12/8/1994	33	12	200	144,000	2.85
12/10/1994	32	12	200	144,000	2.85
12/29/1994	32	12	200	144,000	2.85
12/30/1994	29	12	200	144,000	2.85
3/7/1995	30	12	200	144,000	2.85
3/26/1995	32	12	200	144,000	2.85
11/1/1995	30	10	200	120,000	2.85
11/3/1995	31	10	200	120,000	2.85
11/4/1995	33	10	200	120,000	2.85
3/25/1996	29	12	200	144,000	2.85
3/28/1996	32	12	200	144,000	2.85
5/8/1996	33	8	200	96,000	2.85
12/15/1996	33	12	200	144,000	2.85
12/19/1996	33	12	200	144,000	2.85
3/29/1997	31	12	200	144,000	2.85
4/2/1997	33	10	200	120,000	2.85
4/5/1997	32	10	200	120,000	2.85
12/1/1997	32	12	200	144,000	2.85
12/18/1997	33	12	200	144,000	2.85
12/19/1997	30	12	200	144,000	2.85
12/22/1997	31	12	200	144,000	2.85
12/23/1997	33	12	200	144,000	2.85
12/25/1997	31	12	200	144,000	2.85
12/26/1997	32	12	200	144,000	2.85
3/5/1998	30	12	200	144,000	2.85
3/6/1998	31	12	200	144,000	2.85
3/28/1998	32	12	200	144,000	2.85
3/29/1998	32	12	200	144,000	2.85
11/24/1998	28	10	200	120,000	2.85
11/25/1998	28	10	200	120,000	2.85
11/26/1998	30	10	200	120,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
12/5/1998	27	12	200	144,000	2.85
12/7/1998	33	12	200	144,000	2.85
12/16/1998	33	12	200	144,000	2.85
12/19/1998	25	12	200	144,000	2.85
12/20/1998	20	12	200	144,000	2.85
12/21/1998	14	12	200	144,000	2.85
12/22/1998	23	12	200	144,000	2.85
12/23/1998	20	12	200	144,000	2.85
12/24/1998	28	12	200	144,000	2.85
12/25/1998	26	12	200	144,000	2.85
3/2/1999	32	12	200	144,000	2.85
3/3/1999	29	12	200	144,000	2.85
3/5/1999	32	12	200	144,000	2.85
3/6/1999	28	12	200	144,000	2.85
3/7/1999	30	12	200	144,000	2.85
3/9/1999	32	12	200	144,000	2.85
3/11/1999	31	12	200	144,000	2.85
3/29/1999	28	12	200	144,000	2.85
4/1/1999	33	10	200	120,000	2.85
4/9/1999	32	10	200	120,000	2.85
4/14/1999	33	10	200	120,000	2.85
10/21/1999	33	8	200	96,000	2.85
11/3/1999	30	10	200	120,000	2.85
12/4/1999	32	12	200	144,000	2.85
12/12/1999	30	12	200	144,000	2.85
12/21/1999	32	12	200	144,000	2.85
12/25/1999	33	12	200	144,000	2.85
12/26/1999	31	12	200	144,000	2.85
12/27/1999	30	12	200	144,000	2.85
12/30/1999	32	12	200	144,000	2.85
12/31/1999	33	12	200	144,000	2.85
3/24/2000	30	12	200	144,000	2.85
3/26/2000	32	12	200	144,000	2.85
3/29/2000	31	12	200	144,000	2.85
3/30/2000	32	12	200	144,000	2.85
9/23/2000	31	6	200	72,000	2.85
10/24/2000	33	8	200	96,000	2.85
11/10/2000	31	10	200	120,000	2.85
11/11/2000	27	10	200	120,000	2.85
11/12/2000	27	10	200	120,000	2.85
11/16/2000	33	10	200	120,000	2.85
11/17/2000	27	10	200	120,000	2.85
11/18/2000	29	10	200	120,000	2.85
11/19/2000	29	10	200	120,000	2.85
12/6/2000	32	12	200	144,000	2.85
12/7/2000	32	12	200	144,000	2.85
12/10/2000	31	12	200	144,000	2.85
12/28/2000	32	12	200	144,000	2.85
12/29/2000	31	12	200	144,000	2.85
4/4/2001	33	10	200	120,000	2.85
3/1/2002	30	12	200	144,000	2.85
3/2/2002	28	12	200	144,000	2.85
3/4/2002	32	12	200	144,000	2.85
3/8/2002	31	12	200	144,000	2.85
3/9/2002	32	12	200	144,000	2.85
3/18/2002	31	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
3/25/2002	32	12	200	144,000	2.85
4/24/2002	33	10	200	120,000	2.85
11/2/2002	31	10	200	120,000	2.85
11/3/2002	31	10	200	120,000	2.85
11/4/2002	31	10	200	120,000	2.85
11/16/2002	32	10	200	120,000	2.85
10/31/2003	30	8	200	96,000	2.85
11/1/2003	25	10	200	120,000	2.85
11/20/2003	32	10	200	120,000	2.85
11/21/2003	33	10	200	120,000	2.85
11/22/2003	31	10	200	120,000	2.85
12/15/2003	33	12	200	144,000	2.85
12/26/2003	33	12	200	144,000	2.85
4/2/2004	32	10	200	120,000	2.85
11/4/2004	33	10	200	120,000	2.85
11/6/2004	33	10	200	120,000	2.85
11/21/2004	30	10	200	120,000	2.85
11/28/2004	32	10	200	120,000	2.85
11/29/2004	27	10	200	120,000	2.85
11/30/2004	31	10	200	120,000	2.85
12/2/2004	28	12	200	144,000	2.85
12/3/2004	29	12	200	144,000	2.85
12/4/2004	30	12	200	144,000	2.85
12/16/2004	33	12	200	144,000	2.85
12/21/2004	32	12	200	144,000	2.85
12/24/2004	33	12	200	144,000	2.85
3/15/2005	30	12	200	144,000	2.85
4/14/2005	33	10	200	120,000	2.85
11/8/2005	33	10	200	120,000	2.85
11/9/2005	32	10	200	120,000	2.85
11/20/2005	32	10	200	120,000	2.85
11/21/2005	32	10	200	120,000	2.85
11/29/2005	31	10	200	120,000	2.85
12/5/2005	28	12	200	144,000	2.85
12/6/2005	30	12	200	144,000	2.85
12/8/2005	32	12	200	144,000	2.85
12/9/2005	33	12	200	144,000	2.85
12/10/2005	32	12	200	144,000	2.85
12/13/2005	29	12	200	144,000	2.85
12/14/2005	27	12	200	144,000	2.85
12/15/2005	27	12	200	144,000	2.85
12/16/2005	29	12	200	144,000	2.85
12/17/2005	31	12	200	144,000	2.85
3/11/2006	30	12	200	144,000	2.85
3/12/2006	28	12	200	144,000	2.85
3/13/2006	30	12	200	144,000	2.85
3/19/2006	31	12	200	144,000	2.85
4/17/2006	32	10	200	120,000	2.85
4/18/2006	32	10	200	120,000	2.85
4/21/2006	33	10	200	120,000	2.85
5/7/2006	33	8	200	96,000	2.85
5/12/2006	33	8	200	96,000	2.85
5/13/2006	33	8	200	96,000	2.85
10/25/2006	33	8	200	96,000	2.85
10/26/2006	33	8	200	96,000	2.85
10/28/2006	32	8	200	96,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
10/29/2006	33	8	200	96,000	2.85
10/30/2006	30	8	200	96,000	2.85
10/31/2006	27	8	200	96,000	2.85
11/1/2006	31	10	200	120,000	2.85
11/29/2006	30	10	200	120,000	2.85
12/1/2006	33	12	200	144,000	2.85
12/2/2006	30	12	200	144,000	2.85
12/3/2006	32	12	200	144,000	2.85
12/4/2006	33	12	200	144,000	2.85
12/6/2006	31	12	200	144,000	2.85
12/16/2006	32	12	200	144,000	2.85
12/17/2006	31	12	200	144,000	2.85
12/18/2006	31	12	200	144,000	2.85
12/20/2006	30	12	200	144,000	2.85
12/22/2006	32	12	200	144,000	2.85
12/28/2006	28	12	200	144,000	2.85
12/29/2006	31	12	200	144,000	2.85
12/30/2006	33	12	200	144,000	2.85
12/31/2006	33	12	200	144,000	2.85
3/15/2007	30	12	200	144,000	2.85
3/21/2007	30	12	200	144,000	2.85
3/29/2007	30	12	200	144,000	2.85
4/2/2007	31	10	200	120,000	2.85
4/9/2007	33	10	200	120,000	2.85
5/16/2007	33	8	200	96,000	2.85
11/20/2007	33	10	200	120,000	2.85
11/21/2007	29	10	200	120,000	2.85
11/22/2007	27	10	200	120,000	2.85
11/23/2007	27	10	200	120,000	2.85
11/24/2007	29	10	200	120,000	2.85
11/25/2007	28	10	200	120,000	2.85
11/26/2007	30	10	200	120,000	2.85
11/27/2007	33	10	200	120,000	2.85
11/30/2007	31	10	200	120,000	2.85
12/1/2007	27	12	200	144,000	2.85
12/8/2007	33	12	200	144,000	2.85
12/9/2007	28	12	200	144,000	2.85
12/10/2007	29	12	200	144,000	2.85
12/11/2007	27	12	200	144,000	2.85
12/13/2007	30	12	200	144,000	2.85
12/14/2007	30	12	200	144,000	2.85
12/21/2007	30	12	200	144,000	2.85
12/22/2007	31	12	200	144,000	2.85
12/25/2007	29	12	200	144,000	2.85
12/27/2007	33	12	200	144,000	2.85
12/31/2007	28	12	200	144,000	2.85
3/2/2008	31	12	200	144,000	2.85
3/3/2008	30	12	200	144,000	2.85
3/4/2008	31	12	200	144,000	2.85
3/5/2008	26	12	200	144,000	2.85
3/7/2008	32	12	200	144,000	2.85
3/21/2008	31	12	200	144,000	2.85
3/22/2008	29	12	200	144,000	2.85
3/25/2008	26	12	200	144,000	2.85
3/26/2008	28	12	200	144,000	2.85
3/27/2008	28	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
3/28/2008	28	12	200	144,000	2.85
3/29/2008	29	12	200	144,000	2.85
3/30/2008	29	12	200	144,000	2.85
3/31/2008	26	12	200	144,000	2.85
4/1/2008	30	10	200	120,000	2.85
4/2/2008	27	10	200	120,000	2.85
4/3/2008	29	10	200	120,000	2.85
4/11/2008	33	10	200	120,000	2.85
4/15/2008	32	10	200	120,000	2.85
4/21/2008	31	10	200	120,000	2.85
5/9/2008	32	8	200	96,000	2.85
10/11/2008	33	8	200	96,000	2.85
12/4/2008	32	12	200	144,000	2.85
12/9/2008	31	12	200	144,000	2.85
12/15/2008	30	12	200	144,000	2.85
12/16/2008	24	12	200	144,000	2.85
12/17/2008	26	12	200	144,000	2.85
12/18/2008	31	12	200	144,000	2.85
12/23/2008	32	12	200	144,000	2.85
12/26/2008	33	12	200	144,000	2.85
3/9/2009	31	12	200	144,000	2.85
3/11/2009	30	12	200	144,000	2.85
3/12/2009	30	12	200	144,000	2.85
4/4/2009	31	10	200	120,000	2.85
4/16/2009	33	10	200	120,000	2.85
11/29/2009	33	10	200	120,000	2.85
11/30/2009	32	10	200	120,000	2.85
12/2/2009	30	12	200	144,000	2.85
12/3/2009	32	12	200	144,000	2.85
12/4/2009	31	12	200	144,000	2.85
12/5/2009	29	12	200	144,000	2.85
12/6/2009	24	12	200	144,000	2.85
12/7/2009	25	12	200	144,000	2.85
12/8/2009	18	12	200	144,000	2.85
12/9/2009	21	12	200	144,000	2.85
12/10/2009	21	12	200	144,000	2.85
12/11/2009	27	12	200	144,000	2.85
12/23/2009	31	12	200	144,000	2.85
12/25/2009	32	12	200	144,000	2.85
3/9/2010	31	12	200	144,000	2.85
4/9/2010	31	10	200	120,000	2.85
11/21/2010	33	10	200	120,000	2.85
11/23/2010	32	10	200	120,000	2.85
11/24/2010	30	10	200	120,000	2.85
11/25/2010	31	10	200	120,000	2.85
12/3/2010	33	12	200	144,000	2.85
12/31/2010	32	12	200	144,000	2.85
4/8/2011	32	10	200	120,000	2.85
4/12/2011	33	10	200	120,000	2.85
4/19/2011	32	10	200	120,000	2.85
4/22/2011	31	10	200	120,000	2.85
11/20/2011	32	10	200	120,000	2.85
12/2/2011	32	12	200	144,000	2.85
12/3/2011	32	12	200	144,000	2.85
12/5/2011	30	12	200	144,000	2.85
12/6/2011	28	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
12/7/2011	29	12	200	144,000	2.85
12/8/2011	28	12	200	144,000	2.85
12/9/2011	29	12	200	144,000	2.85
12/12/2011	31	12	200	144,000	2.85
12/13/2011	27	12	200	144,000	2.85
12/14/2011	30	12	200	144,000	2.85
12/20/2011	31	12	200	144,000	2.85
12/21/2011	28	12	200	144,000	2.85
12/22/2011	29	12	200	144,000	2.85
12/23/2011	33	12	200	144,000	2.85
12/24/2011	31	12	200	144,000	2.85
12/25/2011	33	12	200	144,000	2.85
12/26/2011	33	12	200	144,000	2.85
3/6/2012	32	12	200	144,000	2.85
3/7/2012	29	12	200	144,000	2.85
3/8/2012	29	12	200	144,000	2.85
3/13/2012	32	12	200	144,000	2.85
3/14/2012	32	12	200	144,000	2.85
4/6/2012	33	10	200	120,000	2.85
4/7/2012	32	10	200	120,000	2.85
12/13/2012	33	12	200	144,000	2.85
12/31/2012	31	12	200	144,000	2.85
3/4/2013	29	12	200	144,000	2.85
3/8/2013	32	12	200	144,000	2.85
3/19/2013	29	12	200	144,000	2.85
3/23/2013	29	12	200	144,000	2.85
10/30/2013	31	8	200	96,000	2.85
11/21/2013	26	10	200	120,000	2.85
11/22/2013	28	10	200	120,000	2.85
11/24/2013	33	10	200	120,000	2.85
11/25/2013	31	10	200	120,000	2.85
11/29/2013	33	10	200	120,000	2.85
12/3/2013	33	12	200	144,000	2.85
12/4/2013	24	12	200	144,000	2.85
12/5/2013	23	12	200	144,000	2.85
12/6/2013	30	12	200	144,000	2.85
12/7/2013	25	12	200	144,000	2.85
12/8/2013	19	12	200	144,000	2.85
12/9/2013	25	12	200	144,000	2.85
12/10/2013	28	12	200	144,000	2.85
12/11/2013	28	12	200	144,000	2.85
12/12/2013	28	12	200	144,000	2.85
12/13/2013	32	12	200	144,000	2.85
12/16/2013	32	12	200	144,000	2.85
12/17/2013	30	12	200	144,000	2.85
12/19/2013	28	12	200	144,000	2.85
12/20/2013	30	12	200	144,000	2.85
12/25/2013	30	12	200	144,000	2.85
12/26/2013	33	12	200	144,000	2.85
12/27/2013	32	12	200	144,000	2.85
12/28/2013	32	12	200	144,000	2.85
12/29/2013	31	12	200	144,000	2.85
3/23/2014	32	12	200	144,000	2.85
11/30/2014	29	10	200	120,000	2.85
12/30/2014	27	12	200	144,000	2.85
12/31/2014	27	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
3/1/2015	29	12	200	144,000	2.85
3/3/2015	31	12	200	144,000	2.85
3/4/2015	31	12	200	144,000	2.85
11/25/2015	31	10	200	120,000	2.85
11/26/2015	28	10	200	120,000	2.85
11/27/2015	32	10	200	120,000	2.85
11/28/2015	32	10	200	120,000	2.85
11/29/2015	30	10	200	120,000	2.85
11/30/2015	33	10	200	120,000	2.85
12/1/2015	33	12	200	144,000	2.85
12/26/2015	33	12	200	144,000	2.85
12/27/2015	33	12	200	144,000	2.85
12/28/2015	33	12	200	144,000	2.85
12/7/2016	31	12	200	144,000	2.85
12/8/2016	31	12	200	144,000	2.85
12/13/2016	31	12	200	144,000	2.85
12/14/2016	31	12	200	144,000	2.85
12/15/2016	31	12	200	144,000	2.85
12/16/2016	31	12	200	144,000	2.85
12/17/2016	31	12	200	144,000	2.85
12/18/2016	29	12	200	144,000	2.85
12/19/2016	29	12	200	144,000	2.85
12/25/2016	33	12	200	144,000	2.85
12/26/2016	33	12	200	144,000	2.85
12/27/2016	33	12	200	144,000	2.85
12/28/2016	32	12	200	144,000	2.85
12/29/2016	30	12	200	144,000	2.85
12/31/2016	30	12	200	144,000	2.85
12/7/2017	33	12	200	144,000	2.85
12/21/2017	32	12	200	144,000	2.85
4/3/2018	33	10	200	120,000	2.85
11/8/2018	33	10	200	120,000	2.85
11/9/2018	32	10	200	120,000	2.85
11/10/2018	32	10	200	120,000	2.85
11/20/2018	33	10	200	120,000	2.85
3/3/2019	31	12	200	144,000	2.85
3/4/2019	29	12	200	144,000	2.85
3/5/2019	31	12	200	144,000	2.85
3/10/2019	30	12	200	144,000	2.85
3/11/2019	31	12	200	144,000	2.85
10/28/2019	32	8	200	96,000	2.85
11/1/2019	33	10	200	120,000	2.85
11/22/2019	33	10	200	120,000	2.85
11/28/2019	32	10	200	120,000	2.85
11/29/2019	28	10	200	120,000	2.85
11/30/2019	32	10	200	120,000	2.85
3/1/2020	30	12	200	144,000	2.85
3/2/2020	30	12	200	144,000	2.85
4/13/2020	33	10	200	120,000	2.85
4/14/2020	33	10	200	120,000	2.85
10/26/2020	33	8	200	96,000	2.85
11/9/2020	28	10	200	120,000	2.85
11/21/2020	31	10	200	120,000	2.85
11/22/2020	33	10	200	120,000	2.85
11/28/2020	32	10	200	120,000	2.85
12/2/2020	32	12	200	144,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
12/24/2020	33	12	200	144,000	2.85
12/28/2020	32	12	200	144,000	2.85
12/29/2020	32	12	200	144,000	2.85
12/30/2020	31	12	200	144,000	2.85
3/13/2021	32	12	200	144,000	2.85
3/16/2021	31	12	200	144,000	2.85
4/6/2021	33	10	200	120,000	2.85
4/9/2021	32	10	200	120,000	2.85
4/13/2021	32	10	200	120,000	2.85
4/14/2021	32	10	200	120,000	2.85
11/24/2021	33	10	200	120,000	2.85
12/30/2021	33	12	200	144,000	2.85
12/31/2021	33	12	200	144,000	2.85
3/10/2022	32	12	200	144,000	2.85
3/17/2022	21	12	200	144,000	2.85
3/20/2022	26	12	200	144,000	2.85
3/24/2022	31	12	200	144,000	2.85
3/27/2022	30	12	200	144,000	2.85
3/28/2022	31	12	200	144,000	2.85
3/29/2022	29	12	200	144,000	2.85
3/30/2022	27	12	200	144,000	2.85
3/31/2022	23	12	200	144,000	2.85
4/1/2022	31	10	200	120,000	2.85
4/2/2022	31	10	200	120,000	2.85
11/9/2022	33	10	200	120,000	2.85
11/10/2022	32	10	200	120,000	2.85
11/13/2022	31	10	200	120,000	2.85
11/14/2022	30	10	200	120,000	2.85
11/15/2022	33	10	200	120,000	2.85
11/16/2022	31	10	200	120,000	2.85
11/17/2022	31	10	200	120,000	2.85
11/18/2022	31	10	200	120,000	2.85
11/21/2022	33	10	200	120,000	2.85
12/2/2022	32	12	200	144,000	2.85
12/7/2022	32	12	200	144,000	2.85
12/12/2022	33	12	200	144,000	2.85
12/13/2022	29	12	200	144,000	2.85
12/14/2022	27	12	200	144,000	2.85
12/15/2022	28	12	200	144,000	2.85
12/16/2022	27	12	200	144,000	2.85
12/17/2022	28	12	200	144,000	2.85
12/18/2022	28	12	200	144,000	2.85
12/19/2022	28	12	200	144,000	2.85
3/1/2023	28	12	200	144,000	2.85
3/2/2023	31	12	200	144,000	2.85
3/8/2023	31	12	200	144,000	2.85
3/16/2023	31	12	200	144,000	2.85
3/17/2023	30	12	200	144,000	2.85
3/26/2023	31	12	200	144,000	2.85
3/27/2023	31	12	200	144,000	2.85
3/28/2023	31	12	200	144,000	2.85
4/3/2023	33	10	200	120,000	2.85
4/13/2023	33	10	200	120,000	2.85
4/18/2023	33	10	200	120,000	2.85
11/24/2023	33	10	200	120,000	2.85
11/25/2023	25	10	200	120,000	2.85

Date	Min Air Temp (°F)	Duration (hr)	Flow rate (gpm)	Daily Volume (gal)	Acres
11/26/2023	33	10	200	120,000	2.85
11/27/2023	32	10	200	120,000	2.85
11/28/2023	31	10	200	120,000	2.85
12/26/2023	33	12	200	144,000	2.85

Water Used for Temperature Control - HEAT
Permit S-46813 (Application S-61486)
Daniel Arriola

Temperature trigger for heat: > 75°F for June through August; > 70°F for September through November. 14 minute application duration per bog with 3 applications per day when heat control is needed

NOTE: water applied is collected and returned to the system bulges for re-use

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
8/14/1984	77	126	200	25,200	2.85
9/6/1984	75	126	200	25,200	2.85
9/8/1984	71	126	200	25,200	2.85
9/9/1984	70	126	200	25,200	2.85
9/13/1984	71	126	200	25,200	2.85
9/14/1984	71	126	200	25,200	2.85
9/28/1984	70	126	200	25,200	2.85
10/2/1984	72	126	200	25,200	2.85
10/6/1984	70	126	200	25,200	2.85
10/7/1984	72	126	200	25,200	2.85
6/28/1985	83	126	200	25,200	2.85
7/1/1985	85	126	200	25,200	2.85
7/2/1985	75	126	200	25,200	2.85
8/17/1985	82	126	200	25,200	2.85
9/23/1985	70	126	200	25,200	2.85
9/24/1985	71	126	200	25,200	2.85
9/25/1985	80	126	200	25,200	2.85
10/3/1985	71	126	200	25,200	2.85
10/4/1985	76	126	200	25,200	2.85
10/5/1985	70	126	200	25,200	2.85
7/29/1986	85	126	200	25,200	2.85
9/2/1986	70	126	200	25,200	2.85
10/5/1986	72	126	200	25,200	2.85
10/6/1986	71	126	200	25,200	2.85
11/1/1986	70	126	200	25,200	2.85
11/2/1986	78	126	200	25,200	2.85
11/3/1986	72	126	200	25,200	2.85
9/2/1987	70	126	200	25,200	2.85
9/3/1987	71	126	200	25,200	2.85
9/4/1987	72	126	200	25,200	2.85
9/28/1987	73	126	200	25,200	2.85
9/29/1987	71	126	200	25,200	2.85
9/30/1987	73	126	200	25,200	2.85
10/5/1987	77	126	200	25,200	2.85
10/6/1987	84	126	200	25,200	2.85
10/7/1987	75	126	200	25,200	2.85
10/26/1987	85	126	200	25,200	2.85
10/27/1987	71	126	200	25,200	2.85
11/4/1987	72	126	200	25,200	2.85
7/25/1988	75	126	200	25,200	2.85
9/7/1988	70	126	200	25,200	2.85
9/11/1988	76	126	200	25,200	2.85
9/12/1988	92	126	200	25,200	2.85
9/13/1988	79	126	200	25,200	2.85
9/30/1988	74	126	200	25,200	2.85
10/1/1988	71	126	200	25,200	2.85
11/30/1988	71	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
6/4/1989	78	126	200	25,200	2.85
6/23/1989	81	126	200	25,200	2.85
6/24/1989	80	126	200	25,200	2.85
9/6/1989	73	126	200	25,200	2.85
9/7/1989	75	126	200	25,200	2.85
9/11/1989	70	126	200	25,200	2.85
9/12/1989	85	126	200	25,200	2.85
9/13/1989	76	126	200	25,200	2.85
10/17/1989	72	126	200	25,200	2.85
10/29/1989	70	126	200	25,200	2.85
9/1/1990	70	126	200	25,200	2.85
9/2/1990	70	126	200	25,200	2.85
9/12/1990	70	126	200	25,200	2.85
9/14/1990	70	126	200	25,200	2.85
9/16/1990	72	126	200	25,200	2.85
9/18/1990	72	126	200	25,200	2.85
9/20/1990	73	126	200	25,200	2.85
9/21/1990	100	126	200	25,200	2.85
9/22/1990	82	126	200	25,200	2.85
9/23/1990	80	126	200	25,200	2.85
9/24/1990	78	126	200	25,200	2.85
9/29/1990	72	126	200	25,200	2.85
8/7/1991	75	126	200	25,200	2.85
8/8/1991	76	126	200	25,200	2.85
8/29/1991	76	126	200	25,200	2.85
9/2/1991	74	126	200	25,200	2.85
9/3/1991	78	126	200	25,200	2.85
9/4/1991	75	126	200	25,200	2.85
9/5/1991	71	126	200	25,200	2.85
9/9/1991	70	126	200	25,200	2.85
9/15/1991	76	126	200	25,200	2.85
9/16/1991	72	126	200	25,200	2.85
9/18/1991	78	126	200	25,200	2.85
9/19/1991	72	126	200	25,200	2.85
9/22/1991	75	126	200	25,200	2.85
9/23/1991	77	126	200	25,200	2.85
9/24/1991	76	126	200	25,200	2.85
9/25/1991	70	126	200	25,200	2.85
9/30/1991	80	126	200	25,200	2.85
10/4/1991	83	126	200	25,200	2.85
10/5/1991	72	126	200	25,200	2.85
10/9/1991	77	126	200	25,200	2.85
10/10/1991	97	126	200	25,200	2.85
10/11/1991	85	126	200	25,200	2.85
10/12/1991	77	126	200	25,200	2.85
10/13/1991	76	126	200	25,200	2.85
10/14/1991	74	126	200	25,200	2.85
10/16/1991	72	126	200	25,200	2.85
10/19/1991	70	126	200	25,200	2.85
6/22/1992	75	126	200	25,200	2.85
7/7/1992	77	126	200	25,200	2.85
7/10/1992	77	126	200	25,200	2.85
7/15/1992	78	126	200	25,200	2.85
8/10/1992	77	126	200	25,200	2.85
8/11/1992	75	126	200	25,200	2.85
8/24/1992	75	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
8/25/1992	78	126	200	25,200	2.85
8/26/1992	84	126	200	25,200	2.85
9/4/1992	70	126	200	25,200	2.85
9/8/1992	72	126	200	25,200	2.85
9/9/1992	72	126	200	25,200	2.85
9/10/1992	70	126	200	25,200	2.85
9/16/1992	73	126	200	25,200	2.85
9/20/1992	70	126	200	25,200	2.85
9/21/1992	78	126	200	25,200	2.85
9/22/1992	70	126	200	25,200	2.85
9/24/1992	75	126	200	25,200	2.85
9/25/1992	73	126	200	25,200	2.85
9/26/1992	73	126	200	25,200	2.85
9/27/1992	70	126	200	25,200	2.85
9/28/1992	74	126	200	25,200	2.85
9/29/1992	75	126	200	25,200	2.85
9/30/1992	72	126	200	25,200	2.85
10/6/1992	88	126	200	25,200	2.85
10/7/1992	85	126	200	25,200	2.85
10/8/1992	71	126	200	25,200	2.85
10/10/1992	70	126	200	25,200	2.85
10/22/1992	70	126	200	25,200	2.85
8/29/1993	75	126	200	25,200	2.85
8/30/1993	75	126	200	25,200	2.85
9/13/1993	75	126	200	25,200	2.85
9/14/1993	70	126	200	25,200	2.85
9/25/1993	71	126	200	25,200	2.85
9/26/1993	76	126	200	25,200	2.85
10/26/1993	86	126	200	25,200	2.85
10/27/1993	85	126	200	25,200	2.85
10/29/1993	71	126	200	25,200	2.85
10/30/1993	71	126	200	25,200	2.85
10/31/1993	70	126	200	25,200	2.85
11/2/1993	70	126	200	25,200	2.85
7/21/1994	83	126	200	25,200	2.85
8/18/1994	75	126	200	25,200	2.85
9/3/1994	70	126	200	25,200	2.85
9/5/1994	71	126	200	25,200	2.85
9/6/1994	70	126	200	25,200	2.85
9/14/1994	70	126	200	25,200	2.85
9/15/1994	72	126	200	25,200	2.85
9/16/1994	70	126	200	25,200	2.85
9/21/1994	85	126	200	25,200	2.85
9/22/1994	76	126	200	25,200	2.85
10/3/1994	72	126	200	25,200	2.85
10/4/1994	77	126	200	25,200	2.85
10/5/1994	74	126	200	25,200	2.85
6/27/1995	80	126	200	25,200	2.85
6/28/1995	75	126	200	25,200	2.85
7/31/1995	76	126	200	25,200	2.85
9/2/1995	70	126	200	25,200	2.85
9/4/1995	71	126	200	25,200	2.85
9/5/1995	74	126	200	25,200	2.85
9/6/1995	78	126	200	25,200	2.85
9/7/1995	74	126	200	25,200	2.85
9/8/1995	73	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
9/18/1995	70	126	200	25,200	2.85
9/19/1995	73	126	200	25,200	2.85
9/20/1995	70	126	200	25,200	2.85
9/21/1995	71	126	200	25,200	2.85
10/2/1995	70	126	200	25,200	2.85
10/3/1995	70	126	200	25,200	2.85
10/14/1995	75	126	200	25,200	2.85
10/19/1995	74	126	200	25,200	2.85
10/20/1995	74	126	200	25,200	2.85
9/7/1996	70	126	200	25,200	2.85
9/26/1996	78	126	200	25,200	2.85
9/27/1996	80	126	200	25,200	2.85
9/28/1996	72	126	200	25,200	2.85
10/3/1996	71	126	200	25,200	2.85
10/4/1996	70	126	200	25,200	2.85
10/6/1996	70	126	200	25,200	2.85
10/7/1996	76	126	200	25,200	2.85
10/8/1996	82	126	200	25,200	2.85
10/9/1996	78	126	200	25,200	2.85
11/9/1996	74	126	200	25,200	2.85
8/4/1997	75	126	200	25,200	2.85
9/1/1997	74	126	200	25,200	2.85
9/2/1997	74	126	200	25,200	2.85
9/3/1997	73	126	200	25,200	2.85
9/4/1997	73	126	200	25,200	2.85
9/5/1997	71	126	200	25,200	2.85
9/6/1997	71	126	200	25,200	2.85
9/7/1997	72	126	200	25,200	2.85
9/8/1997	71	126	200	25,200	2.85
9/10/1997	70	126	200	25,200	2.85
9/11/1997	70	126	200	25,200	2.85
9/12/1997	72	126	200	25,200	2.85
9/13/1997	71	126	200	25,200	2.85
9/14/1997	70	126	200	25,200	2.85
9/19/1997	76	126	200	25,200	2.85
9/20/1997	82	126	200	25,200	2.85
9/21/1997	83	126	200	25,200	2.85
9/22/1997	74	126	200	25,200	2.85
9/23/1997	70	126	200	25,200	2.85
9/27/1997	71	126	200	25,200	2.85
9/28/1997	72	126	200	25,200	2.85
9/30/1997	70	126	200	25,200	2.85
10/15/1997	71	126	200	25,200	2.85
11/4/1997	73	126	200	25,200	2.85
9/2/1998	70	126	200	25,200	2.85
9/4/1998	70	126	200	25,200	2.85
9/6/1998	70	126	200	25,200	2.85
9/7/1998	71	126	200	25,200	2.85
9/16/1998	71	126	200	25,200	2.85
9/17/1998	70	126	200	25,200	2.85
9/27/1998	74	126	200	25,200	2.85
10/5/1998	70	126	200	25,200	2.85
10/6/1998	72	126	200	25,200	2.85
10/7/1998	70	126	200	25,200	2.85
10/20/1998	89	126	200	25,200	2.85
10/21/1998	88	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
10/22/1998	71	126	200	25,200	2.85
9/5/1999	72	126	200	25,200	2.85
9/6/1999	71	126	200	25,200	2.85
9/7/1999	72	126	200	25,200	2.85
9/8/1999	72	126	200	25,200	2.85
9/12/1999	74	126	200	25,200	2.85
9/28/1999	73	126	200	25,200	2.85
10/17/1999	73	126	200	25,200	2.85
10/18/1999	71	126	200	25,200	2.85
11/12/1999	71	126	200	25,200	2.85
9/13/2000	82	126	200	25,200	2.85
9/14/2000	74	126	200	25,200	2.85
9/15/2000	70	126	200	25,200	2.85
9/17/2000	71	126	200	25,200	2.85
9/18/2000	73	126	200	25,200	2.85
9/19/2000	70	126	200	25,200	2.85
9/23/2000	71	126	200	25,200	2.85
9/29/2000	74	126	200	25,200	2.85
9/30/2000	70	126	200	25,200	2.85
10/8/2000	71	126	200	25,200	2.85
10/17/2000	71	126	200	25,200	2.85
9/1/2001	72	126	200	25,200	2.85
9/2/2001	72	126	200	25,200	2.85
9/3/2001	72	126	200	25,200	2.85
9/4/2001	71	126	200	25,200	2.85
9/7/2001	70	126	200	25,200	2.85
9/8/2001	81	126	200	25,200	2.85
9/9/2001	80	126	200	25,200	2.85
9/30/2001	75	126	200	25,200	2.85
10/1/2001	78	126	200	25,200	2.85
7/9/2002	76	126	200	25,200	2.85
9/1/2002	72	126	200	25,200	2.85
9/2/2002	70	126	200	25,200	2.85
9/9/2002	71	126	200	25,200	2.85
9/18/2002	70	126	200	25,200	2.85
9/19/2002	72	126	200	25,200	2.85
9/20/2002	70	126	200	25,200	2.85
9/21/2002	71	126	200	25,200	2.85
9/22/2002	74	126	200	25,200	2.85
9/23/2002	71	126	200	25,200	2.85
9/25/2002	75	126	200	25,200	2.85
9/26/2002	75	126	200	25,200	2.85
10/12/2002	78	126	200	25,200	2.85
11/26/2002	70	126	200	25,200	2.85
11/27/2002	77	126	200	25,200	2.85
11/29/2002	73	126	200	25,200	2.85
6/4/2003	75	126	200	25,200	2.85
6/5/2003	75	126	200	25,200	2.85
6/28/2003	75	126	200	25,200	2.85
6/29/2003	75	126	200	25,200	2.85
9/1/2003	71	126	200	25,200	2.85
9/11/2003	72	126	200	25,200	2.85
9/12/2003	70	126	200	25,200	2.85
9/13/2003	71	126	200	25,200	2.85
9/14/2003	74	126	200	25,200	2.85
9/18/2003	70	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
9/21/2003	70	126	200	25,200	2.85
9/22/2003	78	126	200	25,200	2.85
9/23/2003	77	126	200	25,200	2.85
10/16/2003	70	126	200	25,200	2.85
10/17/2003	73	126	200	25,200	2.85
10/18/2003	71	126	200	25,200	2.85
10/19/2003	70	126	200	25,200	2.85
10/20/2003	70	126	200	25,200	2.85
10/21/2003	70	126	200	25,200	2.85
10/22/2003	72	126	200	25,200	2.85
10/25/2003	75	126	200	25,200	2.85
10/26/2003	73	126	200	25,200	2.85
10/27/2003	72	126	200	25,200	2.85
10/28/2003	71	126	200	25,200	2.85
6/1/2004	78	126	200	25,200	2.85
6/15/2004	80	126	200	25,200	2.85
6/16/2004	78	126	200	25,200	2.85
7/20/2004	76	126	200	25,200	2.85
7/21/2004	75	126	200	25,200	2.85
7/28/2004	78	126	200	25,200	2.85
8/8/2004	82	126	200	25,200	2.85
8/29/2004	75	126	200	25,200	2.85
9/1/2004	72	126	200	25,200	2.85
9/2/2004	72	126	200	25,200	2.85
9/3/2004	70	126	200	25,200	2.85
9/4/2004	70	126	200	25,200	2.85
9/5/2004	72	126	200	25,200	2.85
9/6/2004	72	126	200	25,200	2.85
9/8/2004	72	126	200	25,200	2.85
9/9/2004	71	126	200	25,200	2.85
9/10/2004	72	126	200	25,200	2.85
9/14/2004	70	126	200	25,200	2.85
9/15/2004	71	126	200	25,200	2.85
10/5/2004	72	126	200	25,200	2.85
10/12/2004	72	126	200	25,200	2.85
10/13/2004	81	126	200	25,200	2.85
10/14/2004	75	126	200	25,200	2.85
7/17/2005	75	126	200	25,200	2.85
9/4/2005	70	126	200	25,200	2.85
9/29/2005	70	126	200	25,200	2.85
11/18/2005	70	126	200	25,200	2.85
9/1/2006	72	126	200	25,200	2.85
9/17/2006	70	126	200	25,200	2.85
9/23/2006	83	126	200	25,200	2.85
9/24/2006	74	126	200	25,200	2.85
9/25/2006	72	126	200	25,200	2.85
9/26/2006	72	126	200	25,200	2.85
10/9/2006	82	126	200	25,200	2.85
10/10/2006	81	126	200	25,200	2.85
10/11/2006	84	126	200	25,200	2.85
10/12/2006	73	126	200	25,200	2.85
10/13/2006	72	126	200	25,200	2.85
10/21/2006	77	126	200	25,200	2.85
9/2/2007	75	126	200	25,200	2.85
9/3/2007	74	126	200	25,200	2.85
9/4/2007	73	126	200	25,200	2.85

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Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
9/5/2007	71	126	200	25,200	2.85
9/6/2007	70	126	200	25,200	2.85
9/8/2007	76	126	200	25,200	2.85
9/9/2007	75	126	200	25,200	2.85
9/14/2007	70	126	200	25,200	2.85
9/26/2007	78	126	200	25,200	2.85
10/22/2007	73	126	200	25,200	2.85
10/23/2007	73	126	200	25,200	2.85
10/24/2007	73	126	200	25,200	2.85
7/8/2008	75	126	200	25,200	2.85
7/9/2008	75	126	200	25,200	2.85
7/13/2008	77	126	200	25,200	2.85
9/5/2008	71	126	200	25,200	2.85
9/6/2008	70	126	200	25,200	2.85
9/8/2008	70	126	200	25,200	2.85
9/28/2008	78	126	200	25,200	2.85
9/29/2008	78	126	200	25,200	2.85
10/1/2008	70	126	200	25,200	2.85
10/2/2008	72	126	200	25,200	2.85
11/18/2008	70	126	200	25,200	2.85
8/11/2009	75	126	200	25,200	2.85
9/11/2009	74	126	200	25,200	2.85
9/14/2009	70	126	200	25,200	2.85
9/18/2009	72	126	200	25,200	2.85
9/20/2009	74	126	200	25,200	2.85
9/21/2009	93	126	200	25,200	2.85
9/22/2009	73	126	200	25,200	2.85
7/7/2010	78	126	200	25,200	2.85
8/25/2010	79	126	200	25,200	2.85
9/3/2010	75	126	200	25,200	2.85
10/20/2010	75	126	200	25,200	2.85
6/5/2011	76	126	200	25,200	2.85
6/29/2011	80	126	200	25,200	2.85
7/6/2011	82	126	200	25,200	2.85
8/23/2011	75	126	200	25,200	2.85
9/4/2011	73	126	200	25,200	2.85
9/20/2011	70	126	200	25,200	2.85
9/22/2011	74	126	200	25,200	2.85
9/23/2011	70	126	200	25,200	2.85
9/27/2011	72	126	200	25,200	2.85
9/28/2011	71	126	200	25,200	2.85
10/19/2011	75	126	200	25,200	2.85
10/1/2012	71	126	200	25,200	2.85
10/2/2012	70	126	200	25,200	2.85
6/30/2013	80	126	200	25,200	2.85
9/2/2013	72	126	200	25,200	2.85
9/7/2013	73	126	200	25,200	2.85
9/8/2013	70	126	200	25,200	2.85
10/6/2013	74	126	200	25,200	2.85
9/1/2014	71	126	200	25,200	2.85
9/3/2014	70	126	200	25,200	2.85
9/4/2014	70	126	200	25,200	2.85
9/5/2014	71	126	200	25,200	2.85
9/6/2014	79	126	200	25,200	2.85
9/11/2014	76	126	200	25,200	2.85
9/12/2014	76	126	200	25,200	2.85

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
9/20/2014	72	126	200	25,200	2.85
10/3/2014	71	126	200	25,200	2.85
10/4/2014	82	126	200	25,200	2.85
10/5/2014	82	126	200	25,200	2.85
10/14/2014	71	126	200	25,200	2.85
10/19/2014	70	126	200	25,200	2.85
7/18/2015	76	126	200	25,200	2.85
7/29/2015	76	126	200	25,200	2.85
9/6/2015	71	126	200	25,200	2.85
9/13/2015	70	126	200	25,200	2.85
9/19/2015	70	126	200	25,200	2.85
9/20/2015	71	126	200	25,200	2.85
10/5/2015	77	126	200	25,200	2.85
10/14/2015	72	126	200	25,200	2.85
10/15/2015	71	126	200	25,200	2.85
8/26/2016	91	126	200	25,200	2.85
9/3/2016	70	126	200	25,200	2.85
9/8/2016	70	126	200	25,200	2.85
9/9/2016	71	126	200	25,200	2.85
9/10/2016	71	126	200	25,200	2.85
9/13/2016	74	126	200	25,200	2.85
9/14/2016	82	126	200	25,200	2.85
9/20/2016	70	126	200	25,200	2.85
9/21/2016	70	126	200	25,200	2.85
9/25/2016	71	126	200	25,200	2.85
9/26/2016	81	126	200	25,200	2.85
9/27/2016	71	126	200	25,200	2.85
6/24/2017	79	126	200	25,200	2.85
8/1/2017	75	126	200	25,200	2.85
8/2/2017	76	126	200	25,200	2.85
8/3/2017	82	126	200	25,200	2.85
9/1/2017	72	126	200	25,200	2.85
9/3/2017	79	126	200	25,200	2.85
9/4/2017	79	126	200	25,200	2.85
9/5/2017	76	126	200	25,200	2.85
9/6/2017	73	126	200	25,200	2.85
9/10/2017	71	126	200	25,200	2.85
9/11/2017	72	126	200	25,200	2.85
9/12/2017	77	126	200	25,200	2.85
9/17/2017	70	126	200	25,200	2.85
9/25/2017	70	126	200	25,200	2.85
9/26/2017	75	126	200	25,200	2.85
9/27/2017	76	126	200	25,200	2.85
9/28/2017	81	126	200	25,200	2.85
10/10/2017	70	126	200	25,200	2.85
10/24/2017	70	126	200	25,200	2.85
10/25/2017	84	126	200	25,200	2.85
9/4/2018	70	126	200	25,200	2.85
9/25/2018	70	126	200	25,200	2.85
9/26/2018	75	126	200	25,200	2.85
9/27/2018	80	126	200	25,200	2.85
9/28/2018	70	126	200	25,200	2.85
10/12/2018	71	126	200	25,200	2.85
10/13/2018	76	126	200	25,200	2.85
10/14/2018	75	126	200	25,200	2.85
10/15/2018	80	126	200	25,200	2.85

Received
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Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
10/16/2018	70	126	200	25,200	2.85
11/11/2018	71	126	200	25,200	2.85
11/12/2018	72	126	200	25,200	2.85
6/11/2019	81	126	200	25,200	2.85
6/12/2019	84	126	200	25,200	2.85
8/13/2019	75	126	200	25,200	2.85
8/27/2019	77	126	200	25,200	2.85
9/1/2019	74	126	200	25,200	2.85
9/2/2019	73	126	200	25,200	2.85
9/3/2019	75	126	200	25,200	2.85
9/4/2019	74	126	200	25,200	2.85
9/5/2019	73	126	200	25,200	2.85
9/7/2019	71	126	200	25,200	2.85
9/8/2019	72	126	200	25,200	2.85
9/9/2019	70	126	200	25,200	2.85
9/12/2019	73	126	200	25,200	2.85
9/13/2019	74	126	200	25,200	2.85
9/14/2019	73	126	200	25,200	2.85
9/15/2019	74	126	200	25,200	2.85
9/21/2019	70	126	200	25,200	2.85
9/22/2019	71	126	200	25,200	2.85
9/24/2019	70	126	200	25,200	2.85
9/25/2019	73	126	200	25,200	2.85
9/26/2019	71	126	200	25,200	2.85
9/27/2019	71	126	200	25,200	2.85
10/7/2019	70	126	200	25,200	2.85
10/25/2019	73	126	200	25,200	2.85
8/14/2020	81	126	200	25,200	2.85
8/15/2020	90	126	200	25,200	2.85
8/16/2020	91	126	200	25,200	2.85
9/1/2020	73	126	200	25,200	2.85
9/2/2020	79	126	200	25,200	2.85
9/6/2020	74	126	200	25,200	2.85
9/7/2020	71	126	200	25,200	2.85
9/8/2020	80	126	200	25,200	2.85
9/9/2020	94	126	200	25,200	2.85
9/10/2020	83	126	200	25,200	2.85
9/15/2020	71	126	200	25,200	2.85
9/16/2020	73	126	200	25,200	2.85
9/21/2020	73	126	200	25,200	2.85
9/24/2020	74	126	200	25,200	2.85
9/25/2020	72	126	200	25,200	2.85
9/26/2020	70	126	200	25,200	2.85
9/27/2020	70	126	200	25,200	2.85
9/28/2020	73	126	200	25,200	2.85
9/29/2020	100	126	200	25,200	2.85
9/30/2020	79	126	200	25,200	2.85
10/17/2020	70	126	200	25,200	2.85
8/1/2021	75	126	200	25,200	2.85
8/6/2021	75	126	200	25,200	2.85
9/3/2021	73	126	200	25,200	2.85
9/10/2021	73	126	200	25,200	2.85
9/11/2021	73	126	200	25,200	2.85
9/15/2021	70	126	200	25,200	2.85
9/18/2021	70	126	200	25,200	2.85
9/22/2021	75	126	200	25,200	2.85

Received
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SWRB

Date	Max Air Temp (°F)	Duration (min)	Flow rate (gpm)	Daily Volume (gal)	Acres
9/24/2021	76	126	200	25,200	2.85
9/25/2021	76	126	200	25,200	2.85
9/30/2021	72	126	200	25,200	2.85
10/12/2021	72	126	200	25,200	2.85
10/22/2021	72	126	200	25,200	2.85
10/23/2021	72	126	200	25,200	2.85
10/24/2021	72	126	200	25,200	2.85
10/25/2021	72	126	200	25,200	2.85
10/26/2021	72	126	200	25,200	2.85
10/27/2021	72	126	200	25,200	2.85
10/28/2021	72	126	200	25,200	2.85
10/29/2021	72	126	200	25,200	2.85
10/30/2021	72	126	200	25,200	2.85
6/25/2022	81	126	200	25,200	2.85
6/26/2022	82	126	200	25,200	2.85
6/27/2022	82	126	200	25,200	2.85
7/12/2022	77	126	200	25,200	2.85
9/3/2022	70	126	200	25,200	2.85
9/4/2022	72	126	200	25,200	2.85
9/5/2022	75	126	200	25,200	2.85
9/6/2022	73	126	200	25,200	2.85
9/7/2022	70	126	200	25,200	2.85
9/8/2022	70	126	200	25,200	2.85
9/10/2022	89	126	200	25,200	2.85
9/25/2022	71	126	200	25,200	2.85
10/1/2022	84	126	200	25,200	2.85
8/10/2023	76	126	200	25,200	2.85
8/13/2023	75	126	200	25,200	2.85
9/1/2023	72	126	200	25,200	2.85
9/4/2023	70	126	200	25,200	2.85
9/13/2023	73	126	200	25,200	2.85
9/14/2023	70	126	200	25,200	2.85
9/15/2023	74	126	200	25,200	2.85
9/16/2023	72	126	200	25,200	2.85
9/17/2023	70	126	200	25,200	2.85
10/5/2023	70	126	200	25,200	2.85
10/6/2023	84	126	200	25,200	2.85
10/7/2023	79	126	200	25,200	2.85
10/8/2023	74	126	200	25,200	2.85
10/13/2023	72	126	200	25,200	2.85
10/30/2023	73	126	200	25,200	2.85

Received
JAN 21 2025
OWRD

January 15, 2025

Mr. Gerry Clark
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271

Subject: Claim of Beneficial Use for Permit S-46813 (Application S-61486)

Mr. Clark:

On behalf of the permit holder, please find enclosed Claim of Beneficial Use (COBU) report for Permit S-46813. The permit has a priority date of July 20, 1982; therefore, no fee is required for the COBU. Please do not hesitate to contact me at 503-701-4535 with questions about the enclosed COBU.

Respectfully submitted,

Theodore Ressler, RG, CWRE
Summit Water Resources LLC

Enclosures:
Claim of Beneficial Use for Permit R-8453

Cc: Daniel Arriola
Tony Arriola

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