CLAIM OF BENEFICIAL USE for Groundwater Permits claiming more than 0.1 cfs



Oregon Water Resources Department

725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900

www.oregon.gov/OWRD

Received

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

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A separate form shall be completed for each permit.

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

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

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

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

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

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

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

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION #	PERMIT # (IF	APPLICABLE) PERMIT AMENDMENT # (IF APPLICABLE)	
G - 17236	G - 16701)1 T-	·

2. Property Owner (current owner	miorination).			
APPLICANT/BUSINESS NAME		PHONE NO.	ė	ADDITIONAL CONTACT NO.
Portland Veterans' Affairs N	ledical Center	(503-) 2	73-52222	to the
ADDRESS 3710 S.W. U.S. Veterans H	ospital Road			
CITY	STATE	ZIP	E-Mail	
Portland	Oregon	97239		
If the current property owner is not assignment be filed with the Depart	ment. <u>Each</u> permi	it holder of	record must si	ign this form.
3. Permit holder of record (this ma	y, or may not, be	the curre	nt property ov	vner):
PERMIT HOLDER OF RECORD				ı
Portland Veterans' Affairs	Medical Center			
ADDRESS 2710 S.W. H.S. Verterre III	 			•
3710 S.W. U.S. Veterans Ho	T	710	<u> </u>	
CITY Portland	STATE Oregon	ZIP		
Tortana	Oregon	972	39	<u> </u>
Additional Permit Holder of Record Address				
CITY	STATE	ZIP		
4. Date of Site Inspection:				
March 27, 2024 & April 30, 2024				
5. Person(s) interviewed and descr	ription of their as	sociation v	vith the projec	:t:
Name	DATE			ION WITH THE PROJECT
John Carrier	3-27-24 & 4-3	30-24 V A		Ith Care System Engineer
		V.P.	k. Hospital Heal	ian care System Engineer
6. County:		<u> </u>		
Multnomah				
7. If any property described in the the owner of record for that proper			excluded fron	n this report, identify
OWNER OF RECORD N/A				
Address				
Сіту	STATE	ZIP		
Add additional tables for owners of record				

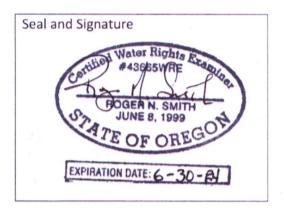
SECTION 2 SIGNATURES

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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 Roger N. Smith	PHONE No. (503-)24	Additional Contact No. (503-)781-9197		
ADDRESS				
1400 S.W. Davenport Stre	et			
CITY	STATE	ZIP	E-MAIL	
Portland	Oregon	97201	RNSAgroun	ndwater@gmail.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
Digitally signed by JOHN JOHN DODIER DODIER Date: 2024.05.13 08:48:08	John E. Dodier	Chief, Facilities	
-07'00'	John E. Dodler	Criler, Facilities	May 13, 2024
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	440		

SECTION 3

CLAIM DESCRIPTION

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1. Point of appropriation name or number:

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WI (IF APPLICABLE)	WELL TAG# ELL (IF APPLICABLE)
Hospital Emergency Water Well And	MULT 101972	100244
Irrigation Well		

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of appropriation source, if indicated on permit:

POA NAME OR NUMBER	Source Basin Located Within	TRIBU	TARY
MULT101972	Willamette River Basin	N/A	
,		1	

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

POA 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)
MULT 101972	Irrigation	Landscaping	May - September	Avg over 12 yrs.; 1.99 AF/yr.
MULT 101972	Commercial	Construction	Oct., Nov., March, April	1.25 AF/vr. for 2 vrs.
Total Quantity of	Water Used	29.74 Ac - ft. over 13 vrs.		

see attached: Water Use Report

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

see attached: Claim Narratives, 'Section 3, Item 4. 'VA Well Distribution System'

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, permit amendment final order, or extension final order? If yes, describe below.

YES N

(e.g. "The permit allowed three points of appropriation. 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.")

see attached: Claim Narratives, Sect 3, Item 5, 'Variations'

6. Claim Summary:

POA	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES	# OF ACRES DEVELOPED
MULT 101972	0.025 cfs	0.42 cfs	0.16 cfs	Irrigation	1.97	2.32
MULT 101972	0.38 cfs	0.39 cfs	N/A	Commercial	N/A	N/A

see attached: Claim Narratives, Sect 3, Item 5 'Variations'

SECTION 4

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SYSTEM DESCRIPTION

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_	_	
N	0)
	_	_

Are there multiple POAs?

Are there multiple i OA3:	1 53	(NO)
If "YES" you will need to copy and complete a separate Section 4 for each POA.		
POA 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?

YES



If "YES" the table below may be deleted.

TWP	Rng	MER	SEC	QQ	GLot	DLC	Use	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Ac	res Irriga	ated			-				

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. Groundwater Source Information (Well)**
- 1. Is the appropriation from a well?

YES

NO

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

2. Describe the access port (type and location) or other means to measure the water level in the well:

A well bubbler tube and pressure gauge using compressed air pressure to calculate water levels.

3. If well logs are not available, provide as much of the following information as possible:

CASING CASING	TOTAL	COMPLETION	COMPLETION	Who the well	WELL DRILLED BY
DIAMETER DEPTH	Б ЕРТН	DATE OF	DATES OF	WAS DRILLED FOR	
		ORIGINAL WELL	ALTERATIONS		
see attached: Drillers' V	Vell Log				
					-

4.	In addition to the information requested in item "3" above, provide any other information
W	ich may help the Department locate any well logs associated with this appropriation.

see atached: Diagram of Well

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C. Groundwater Source Information (Sump)

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1. Is the appropriation from a dug well (sump)?

YES	NO
	(

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

Reminder: Construction standards for sumps can be found in OAR 690-210-0400.

2. If the appropriation involves a SUMP, provide the following information for each SUMP:

LENGTH Wit	OTH AVERAGE DIAMETER	MAXIMUM DEPTH	SURFACE AREA (IN ACRES)	VOLUME IN CUBIC FEET OR ACRE FEET

3. If the sump is curbed constructed with watertight surface curbing, describe the curbing:

CURBING MATERIAL CONCRETE TILES, OR STEEL	.) PRO	IF CONCRETE, VIDE THE THICKNESS OF THE WALL

4.	Provide	sump	volume	calculations:
----	----------------	------	--------	---------------

N/A

D. Diversion and Delivery System Information

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

1. Is a pump used?



NO

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

2. Pump Information:

Unknown	Unknown	Unknown	Submersible	Unknown	3"
Manufacturer	Model	SERIAL NUMBER	TYPE (CENTRIFUGAL, TÜRBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE

3. Motor Information:

	Manufacturer	HÖRSEPÖWER
	Unknown	20 hp
•		

4. Theoretical Pump Capacity:

top of irrigation	DURING PUMPING 320 ft.		(IN CFS) 0.42
Horsepower Operating F	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT

Provide pump calculations:
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see attached: 'Pump Calculations'

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

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AUTIAL RAFTED DESCRIP	Funning & Arren	Detect	T 5 6
INITIAL METER READING	THU HUGHUING HE	READING DURATION OF TIME	TOTAL PUMP OUTPUT
		DOG TOTOL	I I I I I I I I I I I I I I I I I I I
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		T	(III CID)
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Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?



NO

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

8. Mainline Information:

Mainline Siz	E LENGTH		Type of Pipe	В	URIED OR ABOVE	GROUND
see attached	l; 'Variance Approva	al', also see Sec	tion 3, Item 4.	. 'Narrative of	the VA Well Di	stribution
System' in Cl	aim Narratives					
	·		-			

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	Туре (OF PIPE	BURIED OR ABOVE GROUND	58
		Section 3, Iten	n 4. 'Narrative o	f the VA Well Distribution	
System' in Claim Narrat	ives				

10. Sprinkler Information:

Size	OPERATING PSI			MAXIMUM NUMBER USED	KLER OUTPUT
		(GFW)			
see atta	ched; 'Sprin	kler Head Sum	mary'		

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

11. Drip Emitter Information:

	OPERATING PSI	OUTPUT	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITT	ER OUTPUT S)
N/A						
					<u> </u>	

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					Received
					MAY 1 6 2024

13. Pivot Information:

U	W	R	U

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				
,				

E. Storage

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



NO

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

If "YES" is it a:

Storage Tank

Bulge in System / Reservoir



NO ON

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

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Irrigation Storage Polyethylene Tank	Capacity 2,200 gallons	above ground
Emergency Backup Storage Steel Tank 3. Bulge in System / Reservoir:	Capacity 97,000 gallons	above ground
RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
N/A		

F. 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?

YFS



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

2. Complete the table:

PIPE SIZE	PIPE *		SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
N/A				

3	Pr	ovi	de	cal	cul	ati	ons:
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4. If an actual measurement was taken, provide the following:

	WHO MADE THE MEASUREMENT METHOD MEASURED QUANTITY OF WATER (IN CFS)
N/A	Beceived

Attach measurement notes.

G. Gravity Flow Canal or Ditch

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(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

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1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES



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

2. Complete the table:

CANAL OR DITCH	TOP WIDTH	Воттом	DEPTH	"N"	AMOUNT	LENGTH	SLOPE	COMPUTED
Түре	OF CANAL	WIDTH OF		FACTOR	of Fall	OF		RATE
(MATERIAL)	OR DITCH.	CANALOR				CANAL/		(IN CFS)
30.0		Опсн				DITCH		
N/A			<u>.</u>		•			

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

Date of Measurement	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
N/A_			

Attach measurement notes.

H. Additional notes or comments r	related to	o the sy	/stem
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 see attached: Claim Narratives			
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SECTION 5

CONDITIONS

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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 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 order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	05/06/2010		
BEGIN CONSTRUCTION (A)	3 mo. before	2/22/2010	Well Drilled, Irrig. system already exists
COMPLETE CONSTRUCTION (B)	1 vr. & 1 mo.		Irrigation System Connected to Well
COMPLETE APPLICATION OF WATER (C)	2 yr. & 5 mo.	10/2012	Both Irrigation and Commercial Use accomplished

^{*} 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)?	YES	(NO)
If "NO", items a and b relating to this section may be deleted.		
a. Did the Extension Final Order require the submittal of Progress Reports?	YES	NO
If "NO", item b relating to this section may be deleted.		
b. Were the Progress Reports submitted?	YES	NO
If the reports have not been submitted, attach a copy of the reports if available.		
3. Initial Water Level Measurements:		
a. Was the water user required to submit an initial static water level measurem	nent? (YES)	.NO
If "NO", items b through d relating to this section may be deleted.		
b. What month was the initial measurement to be taken in?		
February		
c. Was the measurement submitted to the Department?	YES	NO
d. If the initial measurement was not submitted, provide that measurement no	w, if available:	
DATE OF MEASUREMENT. MEASUREMENT MADE BY METHOD	Measurer	MENT

4. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements?



NO

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

b. Provide the month, or months, the static water level measurement(s) were to be made:

March

c. Were the static water level measurements taken in the month(s) required?

YES

NO

d. If "YES", were those measurements submitted to the Department?

YES

NO

e. If the annual measurements were not submitted, provide the measurements now:

DATE OF MEASUREMENT	MEASUREMENT MADE BY METHOD MEASUREMENT
	Received
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5. Pump Test:

a. Did the permit require the submittal of a pump test?

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YES

NO

Ground water permits with priority dates on or after **December 20, 1988**, require the submittal of a pump test prior to issuance of a certificate. In some cases, the permit holder may qualify for a multiple well exemption or an unreasonable burden exemption.

For additional information regarding pump tests see:

https://www.oregon.gov/OWRD/programs/GWWL/GW/Pages/PumpTestProgram.aspx

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

b. Has the pump test been previously submitted to the Department?

YES

NO)

c. Is the pump test attached to this claim?

YES

NO

d. Has the pump test been approved by the Department?

YES

NO

e. Has a pump test exemption been approved by the Department?

YES

(NO)

6. Measurement Conditions:

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

(YES) NO

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)

NO

c. Meter Information

POD/POA Name or #	Manufacturer	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	Date Installed
MULT 101972	Meter #1(All Water		Working	1,266,314 ft	9/2010
MULT 101972	Meter #2 (irrigation & commercial	Removed	Working	1,184,876 ft ³	9/2010
MULT 101972	Meter #3 (potable) Removed	Working	12,276.4 ft ³	9/2010

Emergency/Backup Water

^{**} Claims will not be reviewed until a pump test or exemption has been approved by the Department

- d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department?
- e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

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E0000000000000000000000000000000000000	NAME	Time	A
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	<u> </u>	•	
N/	Δ		1
1			

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED
N/A		

Recording and reporting condition	7.	Recording	and reporting	conditions
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a. Is the water user required to report the water use to the Department?

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

b. Have the reports been submitted?

e. Other conditions?

NO

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

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

a. Were there special well construction standards?

YES

b. Was submittal of a ground water monitoring plan required?

YES

c. Was submittal of a water management and conservation plan required?

YES

d. Was a Well Identification Number (Well ID tag) assigned and attached to the well?

YES

NO

DATE ATTACHED TO WELL WELLID# 100244 02/22/2010

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

see attached: 'Well Hydrograph & Water Use Reports', also see 'Well Tag Photo'

SECTION 6

ATTACHMENTS

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

Attachm	ENT NAME		DESCRIPTION
see attache	d; List of Attachments	and Descriptions	
			Received
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SECTION 7

CLAIM OF BENEFICIAL USE MAP

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

Provide a general description of the survey method u se su rvey, 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.

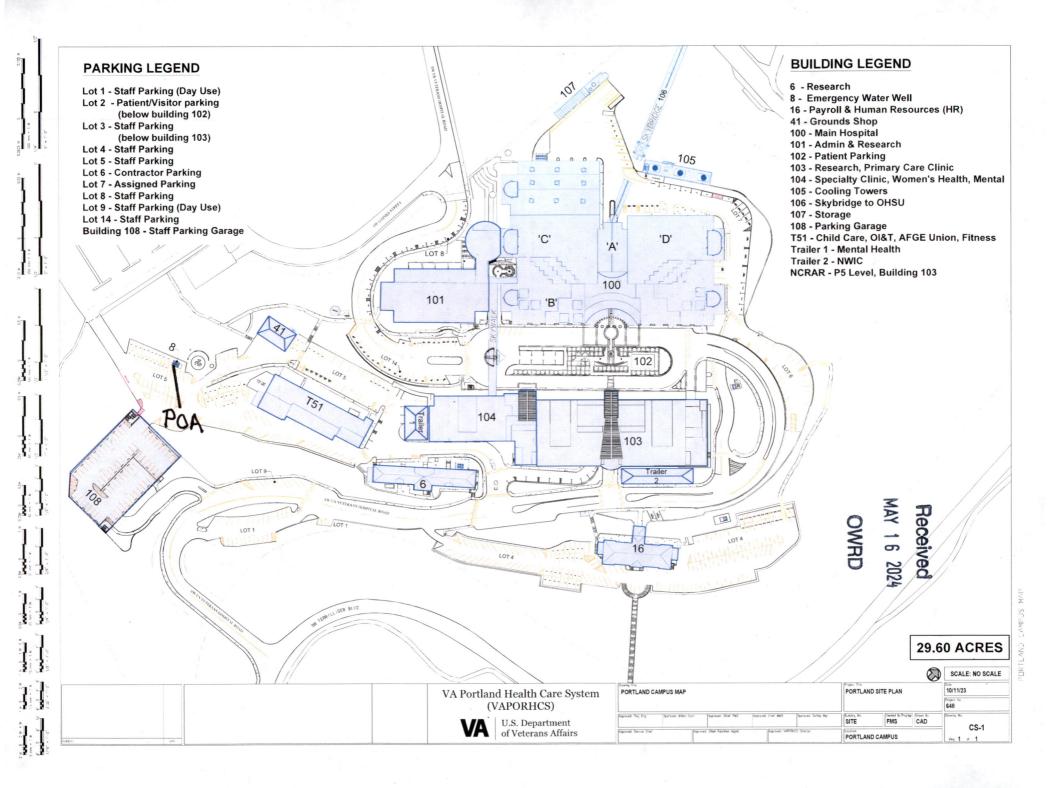
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Attachment Name	Description
1.) Campus Map	Identifies Buildings
2.) Water Use Permit & Timeline Illustration	Shows No Extension Needed
3.) Claim Narratives	Sec. 3-4, Sec. 3-5, Sec. 5-8
4.) Drillers' Well Log	Shows Well Construction
5.) Diagram of Well	Illustration Of Well
6.) Well Hydrograph & Water Use Reports	2010 to 2023
7.) Well Tag Photo	L-10244
8.) Pump Test Document	Shows Performance of Required Test
9.) Pump Calculations	Irrigation & Emergency System
10.) Sprinkler Head Summary	Table of Sprinkler Types, Rates, & PSI
11.) Gould Booster Pump	Pump Specifications
12.) Variance Approval	For Calculating Irrigation System Flow
13.) Elizabeth Caruthers DLC 42	DLC Map

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Attachment 1: Campus Map



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Attachment 2:
Water Use Permint &
Timeline Illustration

STATE OF OREGON

COUNTY OF MULTNOMAH

PERMIT TO APPROPRIATE THE PUBLIC WATERS

Received

THIS PERMIT IS HEREBY ISSUED TO

MAY 16 2024

PORTLAND VA MEDICAL CENTER PO BOX 1034 PORTLAND, OR 97207 OWRD

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-17236

SOURCE OF WATER: A WELL IN WILLAMETTE RIVER BASIN

PURPOSE OR USE: COMMERCIAL USE AND IRRIGATION OF 1.97 ACRES

MAXIMUM RATE: 0.38 CUBIC FOOT PER SECOND (CFS), FURTHER LIMITED TO 0.025

CFS FOR IRRIGATION

PERIOD OF USE: COMMERCIAL - YEAR ROUND

IRRIGATION - MAY 1 THROUGH SEPTEMBER 30

DATE OF PRIORITY: JUNE 18, 2009

WELL LOCATION: NE $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 9, T1S, R1E, W.M.; 305 FEET NORTH AND 615 FEET WEST FROM SE CORNER, NE $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 9

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

NE ¼ SE ¼ 1.83 ACRES IRRIGATION AND COMMERCIAL SECTION 9

NW ¼ SW ¼ 0.14 ACRE IRRIGATION AND COMMERCIAL SECTION 10
TOWNSHIP 1 SOUTH, RANGE 1 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter or other suitable measuring device as approved by the Director at each point of

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appropriation. The permittee shall maintain the meter or measuring device in good working order.

- В. The permittee shall keep a complete record of the amount of water used each month, and shall submit an annual report which includes the recorded water use measurements to the Department by December 1 of each year. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.
- C. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

The well(s) shall produce ground water only from the basalt ground water reservoir between approximately zero feet and 1000 feet below land. surface.

- (1) Use of water from any well, as allowed herein, shall be controlled or shut off if the well displays:
 - An average water level decline of three or more feet per year for five consecutive years; or
 - (b) A total water level decline of fifteen or more feet; or
 - A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.
- The permittee/appropriator shall be responsible for complying with (2) each of the following requirements for measuring water levels in the well(s).
 - Use of water from a new well shall not begin until an initial (a) static water level in the well has been measured and reported to the Department.
 - In addition to the measurement required in subsection (a) of (b) this section, a water level measurement shall be made each year during the period March 1 through March 31.

MAY 1 6 2024

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- (c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.
- (d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.
- (e) The permittee/appropriator shall report the record of measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (2).

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

STANDARD CONDITIONS

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

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The well(s) shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

If the riparian area is disturbed in the process of developing a point of appropriation, 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 635-415, shall be followed.

The use may be restricted if the quality of downstream waters decreases to the point that those waters no longer meet existing state or federal water quality standards due to reduced flows.

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Completion of construction and application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

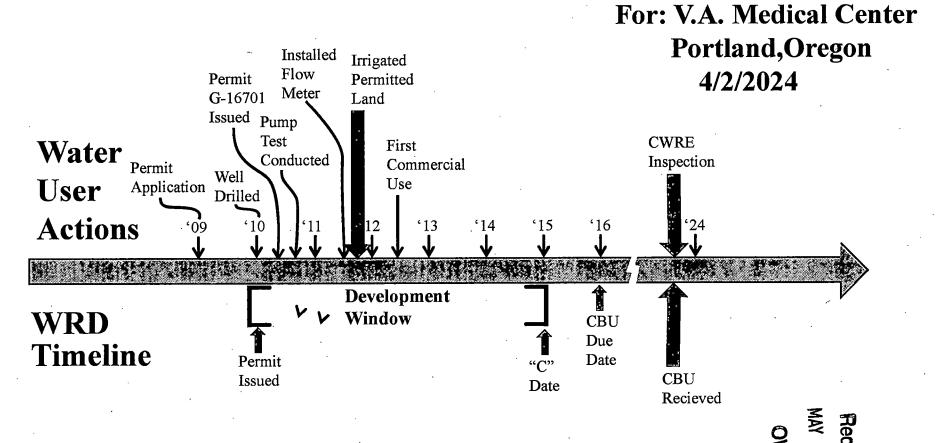
Within one year after making beneficial use of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued May 6 , 2010

for Phillip C. Ward, Director Water Resources Department

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Permit Development Timeline - Late Claim



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Attachment 3:

Claim Narratives

Section 3, Item 4. Narrative of the VA Well Distribution System

Wellhead and Wellhouse Equipment

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The Point of Appropriation (POA) for Permit G-16701 is a water well (MULT 101942) located in a well house constructed in the staff parking lot #5 in the southwest portion of the VA Portland Health Care campus (3710 SW US Veterans Hospital Road, Portland, OR 97239). The wellhouse is located approximately 177 feet southwest of Building T51 (see campus map attached). The 569-foot deep well draws water from the Columbia River Basalt Aquifer (CRBA) through 1,368 perforations (1/8"-wide x 3"-long) in the bottom 30 feet of a 6-inch steel well casing. A 20-hp submersible pump delivers water to the surface through a 3-inch galvanized riser pipe. Drawdown in the well during pumping is approximately 20 feet (based on a 2010 pump test). The top of the wellhead is 14" above the concrete floor of the wellhouse. The top of the 8-inch diameter surface well casing is equipped with a conventional steel and rubber bolted surface well seal. One of the well seal ports is equipped with a bubbler tube arrangement, including an air valve stem for connecting an air compressor and a pressure gauge for measuring pressure for determining well casing water levels. The bottom of the bubbler tube is documented to be 504 feet below the top of the well casing. There are two other ports in the wellhead seal; one is being used for electrical lines to the submersible pump and the other for a goose-necked well vent that prevents vacuum or air pressure from accumulating in the well casing during water level fluctuations. If a manual water level was needed in the well, the goose-neck could be removed.

The discharge line emerging from the well connects into a 3-inch schedule 80 PVC line at the wellhead. The PVC line then connects to Water Meter #1 which measures total volume of water pumped from the well. Both the irrigation and commercial (emergency backup water) flows through this meter. Downstream of Meter #1 is a 'T' where well water is diverted either to the irrigation system or to the commercial backup system. The 'T' has a valve which controls the water flow direction. The valve is reported to direct all water to either irrigation or to the commercial backup but the valve cannot allow a partial flow to both systems at the same time. Downstream of the 'T' valve there is a meter for the irrigation system in one direction and a separate meter for the commercial backup system in the other direction. The irrigation flow is measured by a meter identified here as Meter #2 and the commercial backup line meter identified here as Meter #3. Note: there are no identifying serial numbers on any of the meters requiring, for clarity, the numbers assigned in this narrative. All three water meters are model T-450 'Recordalls' manufactured by Badger. All meters appear to be functioning at the time of inspection (3/27/24). A second site visit was made (4/30/24) to measure flow rates from the well into the irrigation storage tank. All water meters were monitored during the test. It was noted that Meter #2 (irrigation side of system) was registering flow volumes approximately 37% higher than Meter #1. The volumes measured by Meter #1 and #2 should have been the same since no water was being diverted to the potable water side of the system. Meter #1 was determined to be the most accurate, as related to the measured volume in the poly irrigation tank following the test. Therefore, it would be recommended this meter be used for water use determination.

Irrigation System

Once irrigation water flows through Meter #2, it is piped through the wellhouse wall and discharges into the upper portion (about 10 feet above the wellhead) of an above-ground 2,200gallon polyethylene tank located immediately outside the north wall of the building.

Water from the well flowing into this storage tank occurs at the rate which the submersible pump can supply the water, in other words there is no variable frequency drive controller system for the pump. However, if a ball valve was installed in this line flow rates could be managed. As part of this Claim it was calculated, with the present arrangement, the 20 hp submersible pump could deliver water into the poly tank at a rate 0.42 cfs (see calculations in attached claim documents). This is above the permitted 0.025 cfs. However, when a field flow rate test of well water to the irrigation poly tank was performed on April 30th, 2024; the actual rate measured was 0.16 cfs (73 gpm). This flow was determined by switching on the pump and monitoring Meter #1 for 23.5 minutes while pumping 1,720 gallons into the poly storage tank.

The poly storage tank in the irrigation system stores water until the automated sprinkler system signals a need for water. When activated, water flows out of the bottom of the poly tank, through a 2-inch line for approximately 20 feet then back into the wellhouse and through a Gould model e-SV 4-stage booster pump. This pump pressurizes the irrigation water, pushes it through a Hayward water filter then out to the irrigation network. The booster pump consists of a Baldor Reliance Super E, 5 hp motor connected to a Gould e-SV 4-stage pump (catalog #10SV4GB30, see attached technical details). The Gould catalog indicates the pump has the capacity of producing flows up to 30 gpm. Based on irrigation drawings supplied by the VA, the sprinklers across the VA campus operate at pressures between 4 and 35 psi. In addition, the irrigation network consists of zones which are watered by automatic control valves. Zones are irrigated at different times for different lengths of time, depending on water needs of the various types of landscaping (this system includes indoor atrium plantings and those in large containers on roofs and incorporated into a traffic divider at the entrance to the hospital). The main distribution lines (based on the architectural drawings) are either 2-inch or 2 1/2-inch PVC. Laterals are typically 1-inch, 1 1/4- inch, or 1 1/2-inch. The laterals connect to 3/4-inch sprinkler distribution lines. There are a total of 556 sprinklers mapped across the campus. This array is made up of 9 different types of sprinkler heads each of which can have different flows depending on their range and breadth of coverage. A summary table, 'Sprinkler Head Table' is attached to this Claim that shows the distribution of the sprinkler types, their required psi, and gallons per minute flow with different spray patterns. The water demand for the system at any one time would be very difficult to determine because of the varied array of sprinklers within the irrigation zones that are automatically activated at different times. The calculations of theoretical flow in this complex system would likely have little value in determining the maximum or actual water use. Therefore, a variance for this Claim requirement was requested and granted by ODWR (see attached: variance). However, a rough estimate of permit compliance flow can be obtained from the total volume of water pumped to the irrigated landscape which is recorded monthly and has been reported annually to the ODWR since 2010 (see attached: Water Use Reports). The range of annual water use for irrigation (excluding well water used for other purposes (see 'commercial

water use' below) is reported to be between 0.54 and 3.71 ac-ft with the average irrigation applied well water over the past 12 years being 1.99 ac-ft/year. This average water use falls within the 2.5 ac-ft/year/ac or 4.93 ac-ft/yr for the 1.97 acres allowed in the permit.

Commercial/Potable Water System

The commercial (also referred here as emergency and potable) water supply side of the distribution system, as described above, is separated from the irrigation water at a 'T' near the wellhead. This water is diverted through Meter #3 then into a manifold system which separates the flow into a bank of three UV water treatment units. Water emerging from the UV system, recombines and then flows through a filter. At the time of the site inspections (March and April, 2024), no connection was observed for the pipe at the downstream end of the filter to an existing water distribution line that extends from the wellhouse to a potable water storage tank. However, it appears the connection could be quickly made in the event of a water emergency since a water line was observed to extend from the wellhouse to the top of the potable water tank. When connected, the treated water would be conveyed to the top of the 97,000- gallon steel tank, at a height of approximately 40 feet above the wellhead. This storage tank is located approximately 35 feet north of the wellhouse and is shown on the Claim map. This storage tank is normally filled with municipal water from the Portland City Water system. Water from this tank is distributed throughout the hospital campus and is not used for irrigation. The commercial backup system would supply water in the event of a disruption in the existing municipal water source. Meter #3 recorded 91,830 gallons (0.28 ac-ft) having had been run through this treated water system (based on the 3/27/24 meter reading). Although a modest amount, this use satisfies the construction and beneficial use of this part of the system. A field test of the system for flow rates was not allowed by the hospital because such an operation would involve pumping well water into the 97,000- gallon potable water storage tank. However, theoretical flow rates have been calculated and are attached to this Claim.

Commercial Water Use

Well water from the VA Campus POA has also been used during the construction of a parking garage in 2012, 2013 and possibly 2015. This construction has been described by site personnel and is documented by the monthly readings of the 'Water Use Reports' (attached). This water use occurred when the irrigation water lines were tapped to supply construction needs. Based on the 'Water Use' records a volume between 1.22 ac-ft (391,021 gal) and 2.49 (811,369 gal) were used with an average 3,388 gal/day over the 8-month period. This commercial water use along with the water use recorded on Meter #3 fulfills the requirement of completing development and beneficial use of the groundwater before the C' date of May 6, 2015.

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Section 3, Item 5. Variations

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- 1.) The permit for the VA Medical Center allows irrigation on 1.97 acres (see permit attached). A careful measurement of the irrigated area shown on landscape architecture drawings identified an area of 2.32 acres being irrigated. Comparing the landscape map area with the original permit application map (G-16701), it is noted the permit map left out a zone of plants in large square concrete planters which are used as a sitting area and roadway divider at the front of the hospital entrance. Also, large roof planters and a landscaped atrium were not included in the original permit area. To address this discrepancy between the permitted and the existing irrigated area, the following is proposed: A portion of the VA well water is considered 'exempt use' which allows irrigation of up to 0.50 acres without a permit. Although there is a permit on this property; the exempt portion of use is still considered to apply. Therefore, the VA is using the full permitted area of 1.97 acres as well as an additional 0.35 acres of exempt use area.
- 2.) The VA permit allows discharge from the POA of the VA Medical Center for commercial use of 0.38 cfs. The theoretical flow rate for water to be pumped from 310 feet below ground level (290' static + 20' pump test drawdown) to the top of the potable water tank (30-foot-tall tank + 10-foot bottom of tank above wellhead) results in a calculated 0.378 cfs (see attached pump calculations). This theoretical rate, if rounded, meets the allowed 0.38 cfs. An actual flow rate test to the commercial tank was not allowed by the hospital because of a concern of mixing well water with the municipal water.
- 3.) The VA water right permit allows 0.025 cfs for irrigation. The actual flow rate of water pumped from the well into the polyethylene irrigation storage tank was measured at 0.16 cfs (flow test 4-30-24). This flow rate does not go directly to the irrigation sprinklers but is retained in the tank until the automated system indicates a need for water. When this occurs, water is then dispensed into the irrigation lines through a booster pump. The booster pump does not have a water meter to be able to measure flow rates but is rated as having a theoretical capacity of 0.067 cfs (30 gpm) at 30 psi (see Gould booster pump technical data attached). However, the constructed well and distribution system has the capacity to meet the 0.025 cfs of the permit and up to a rate of 0.16 cfs. This extra appropriation is considered to be occurring under the exempt use which has no restriction on flow rates.

Section 5, Item 8. Recording and Reporting Conditions

OWRD

The water user for this permit is required to record monthly water use and report it to ODWR annually. This has been done since well water use began in June, 2011. Monthly water use records have been kept and reported. Copies of the Department's Water Use Report summary for years 2011 thru 2023 are included in this Claim (see attached: Well Hydrograph and Water Use Records).

The well ID tag (L 100244) was confirmed to be attached to the well head during the site inspection on March 27, 2024. A photograph of the well tag was taken at that time and a copy is included in this Claim (see attachment: Well Tag Photo).

Attachment 4:
Drillers' Well Log

STATE OF OREGON WATER SUPPLY WELL REPORT

MULT 101972

(as required by ORS 537.765) (1) LAND OWNER: MAY 1 6 2024	(9) LOCATION OF WELL by legs	description	
well Number:	County: Mult. Latitude:	Longitude:	
Name: Portland VA Medical Center	Township: 1S Range: 1E		········.
Address: 3710 SW US Veterans Hospital Road OWRD	Section: 09AD NE 1/4	<u>SE</u> 1/4	
City: Portland State: OR Zip: 97239	Tax Lot: 1600 Lot: Bloc	k: Subdivision:	
(2) TYPE OF WORK: (repair/	Street Address of Well (or nearest ad	dress) <u>3710 SW US Ve</u>	terans
New Well □Deepening □Alteration recondition)□Abandonment	Hospital Road, Portland, Oregon 972	<u>39</u>	
(3) DRILL METHOD:	(10) STATIC WATER LEVEL:		
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger	290 Ft. below land surface	Date 2/22/	<u>10</u>
Other:	Artesian pressure lb. per sq.	in. Date	
(4) PROPOSED USE:	(11) WATER BEARING ZONES:		
□Domestic ⊠Community □Industrial □Irrigation	Depth at which water was first found	£A†	
☐Thermal ☐Injection ☐Livestock ☐Other Public	From To	Est. Flow Rate	SWL
(5) BORE HOLE CONSTRUCTION:		5 gpm	dnm
Special Construction approval ☐Yes ☒No		- 20 gpm	133'
Depth of Completed Well <u>569</u>	*	21 gpm	290'
Explosives Used Yes No Type Amount		21 6pm	270
HOLE SEAL sacks or Diameter From To Material From To pounds		1.	
16" 0 8 cement 0 353 195 sacks			<u> </u>
12" 8 353	(12) WELL LOG: Grou		
	Material	From To	SWL
8" 353 569	asphalt and gravel fill	0 1	J.,, D
	Silt brwn	1 21	
How was seal placed: Method A B BC D E	clay gray stiff	21 23	
Other	Clay gray silty	23 25	12.15
Backfill placed from to Material	clay brwn silty	25 29	
Gravel placed from to Size of gravel	clay brwn med	29 64	
(6) CASING/LINER:	basalt gray/brwn wthd	64 91	
CASING:	basalt gray med wthd	91 118	
Diameter From To Gauge Steel Plastic Welded Threaded	basalt gray/brwn med wthd	118 132	
8" 414" 353' 250 🗵 🗆 🖂	basalt brwn/gray med	132 143	
	basalt gray med-hrd occ fract	143 182	
	basalt gray/brwn slightly vesic	182 197	
	basalt brwn/gray med fract	197 227	
LINER:	basalt gray med-hrd occ fract	227 240	
6" 344 569 .250 🖾 🗆 🖂	basalt gray hrd w/occ fract	240 296	
	basalt gray/brwn hrd fract basalt brwn decomp vesic	296 315	
Drive Shoe used Inside Outside None	basalt gray/blk hrd occ fract	315 335 335 404	
Final location of Shoe(s): 8" 353' 6" top and bottom of liner	basalt blk/gray slightly vesic		
(7) PERFORATIONS/SCREENS: Perforations Method: factory mill slotted	basalt brwn decomp vesic	429 437	
	basalt gray vesic bkn occ brwn	437 449	
L_Screen Type: Material: Slot Tele/pipe	basalt gray/brwn wthd bkn	449 460	
From To Size No. Diameter size Casing Liner	basalt brwn/red decomp vesic	460 467	
536 569 1/8x3 1368 6" pipe 🖂	basalt gray hrd	467 476	
	basalt gray hrd fract w/brwn seams	476 490	7
	(continued on page 2)		
	Date Started: 1/21/10	Completed: 2/22/10	1,
	(unbonded) Water Well Constructor Certification		7 7
(8) WELL TESTS: Minimum testing time is 1 hour	I certify that the work I performed	on the construction, alterati	
□Pump □Bailer ☑Air □Flowing Artesian	abandonment of this well is in compliance	with Oregon water supply	well
Yield gpm Drawdown Drill Stem at Time	construction standards. Materials used an to the best of my knowledge and belief.	untormation reported above	e are true
221 N/A 565 1 hr.	to me nest or in who who mende said netter.	WWC Number	· · · · · ·
RECEIVED	Signed	Date	
MEUE VE	(bonded) Water Well Constructor Certific		
	I accept responsibility for the const	ruction, alteration, or aband	lonment
Temperature of water 52 Depth Artesian Flow Found ADR 06 201	work performed on this well during the co	nstruction dates reported at	ove. All
Was a water analysis done? yes By Whom: Arrow	work performed guring this time is in com-	pliance with Oregon water	Supply pledge and
Was a water analysis done? yes By whom: Arrow Did any strata contain water not suitable for intended was recombined to the contain water not suitable for intended water not suitable	Debelief.	and be the best of my kill	nicuge and
Depth of Strata: SALEM, ORECON		WWC Number	1483
Depail of Disair.	Signed WWW	Date <u>3/9</u>	/10

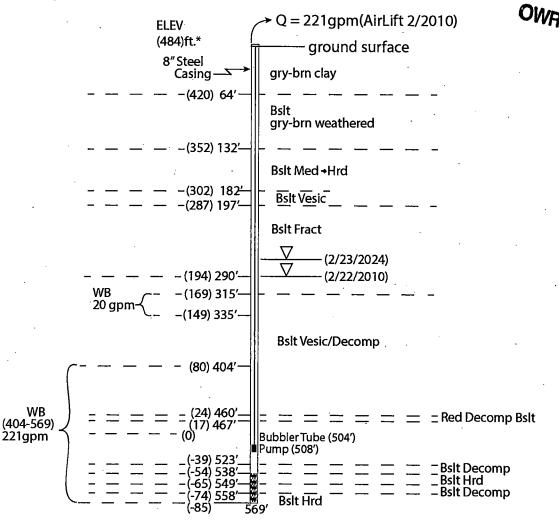
STATE OF OREGON WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
(1) LAND OWNER: WELL ID # L 100244 START CARD # 202518

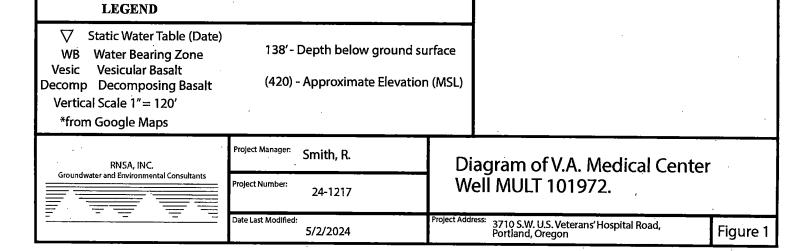
Well Number:	(9) LOCATION OF WELL by legal description:		
Name: Portland VA Medical Center	County: Mult. Latitude: Longitude: Township: 1S Range: 1E		
Address: 3710 SW US Veterans Hospital Road	Section: 09AD NE 14 SE 14		
City: Portland State: OR Zip: 97239			
	Tax Lot: 1600 Lot: Block: Subdivision: Street Address of Well (or nearest address) 3710 SW US Vet		
(2) TYPE OF WORK: (repair/	Hospital Road, Portland, Oregon 97239	erans	
New Well Deepening Alteration recondition) Abandonment	(10) STATIC WATER LEVEL:		
(3) DRILL METHOD:			
Rotary Air □Rotary Mud □Cable □Auger			
Other:	Artesian pressure lb. per sq. in. Date		
(4) PROPOSED USE:	(11) WATER BEARING ZONES:	·	
□Domestic □Community □Industrial □Irrigation	Depth at which water was first found		
☐Thermal ☐Injection ☐Livestock ☒Other Public			
(5) BORE HOLE CONSTRUCTION:	From To Est. Flow Rate	SWL	
Special Construction approval Yes No		7.	
Depth of Completed Well			
Explosives Used Yes No Type Amount			
HOLE SEAL sacks or Diameter From To Material From To pounds			
Diameter From To Material From To pounds			
	(12) WELL LOG: Ground Elevation:		
		CHAIR	
		SWL	
	1	 	
How was seal placed: Method A B C D E	basalt blk hrd w/occ fact 493 512 basalt gray hrd 512 518		
Other	basalt gray hrd 512 518		
Backfill placed from to Material	basalt gray/blk hrd fract 518 523 basalt brwn decomp vesic 523 538	1	
Gravel placed from to Size of gravel	basalt brwn decomp vesic 523 538		
(6) CASING/LINER:	basalt brwn/gray hrd well fract 538 544		
CASING:	basalt gray hrd fract 544 549	7.1	
Diameter From To Gauge Steel Plastic Welded Threaded	basalt brwn/gray bkn some decomp vesic 549 558	<u> </u>	
Orage Steel Lista Wedden Infraudu	basalt brwn hrd occ fract 558 569		
	Received		
		į į	
	1144 1 6 9001		
LINER:	MAY 1 6 2024	1.7 × .	
	OWRD		
Drive Shoe used Inside Outside None	Over ID		
Final location of Shoe(s):			
(7) PERFORATIONS/SCREENS:			
Perforations Method:	RECEIVED		
Screen Type: Material:	I I for M Fail A propaga		
Slot Tele/pipe		1.1.1	
From To Size No. Diameter size Casing Liner	APR 06 2010		
	WATER RESOURCES DE	11	
	SALEM CRECON		
<u> </u>	Date Started: 1/21/10 Completed: 2/22/10		
그 됐는 다음이 됐는 이번 시간 이 경우 없었다. [18]	(unbonded) Water Well Constructor Certification:		
(8) WELL TESTS: Minimum testing time is 1 hour	I certify that the work I performed on the construction, alteration	n, or	
Pump Bailer Air Plowing Artesian	abandonment of this well is in compliance with Oregon water supply w	ell .	
Vield gpm Drawdown Drill Stem at Time	construction standards. Materials used and information reported above	are true	
1 hr.	to the best of my knowledge and belief. WWC Number		
	Signed Date (bonded) Water Well Constructor Certification:		
Temperature of water Depth Artesian Flow Found	I accept responsibility for the construction, alteration, or abando		
Was a water analysis done? By whom:	work performed on this well during the construction dates reported about	ve. All	
Did any strata contain water not suitable for intended use? (explain)	work performed during this time is in compliance with Oregon water st	upply	
	work performed during this time is in compliance with Oregon water st well construction standards. This report is true to the best of my know	cdge and	
Depth of Strata:	belief.		
ARROW DRILLING 503-538-4422	Signed WWC Number 1 Date 3/9/1		
	Signed Date 3/9/1	U	

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Attachment 5:
Diagram of Well

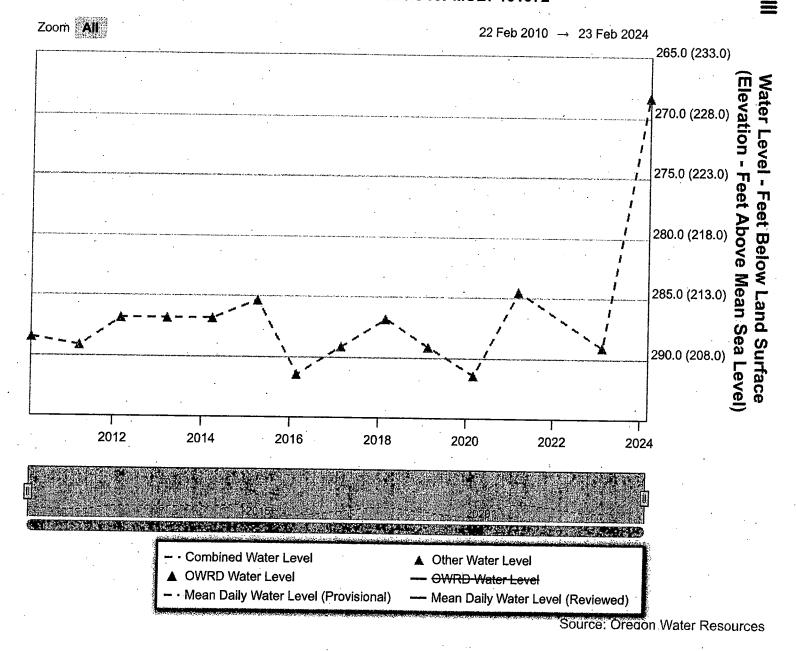
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Attachment 6:
Well Hydrograph &
Water Use Reports



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Oregon Water Resources Department OWRD Groundwater Hydrographs

A Main ©

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Search Records

Well Log Id: or GW Logid: MULT0101972 Chart Clear Well Location: 1.00S/1.00E-9DA-Total Depth (bis): Water Level Count: Log ID: MULT 101972 Well Log Land Surface Elevation: 2/22/2010 -498 ft Wtr Lvl Date Range: 2/23/2024 Well Tag: 100244 Vertical Reference Datum: NAVD1988 Wtr Lvl Depth Min-Max: 268.38 - 291.48 ft State Observation: IRRIGATION & COMMERCIAL Primary Use of Well: Recorder Wtr Lvi Count: **USGS Site:** Primary Aquifer System: Recorder Wtr Lvl Date Range: More information: **Groundwater Mapping Tool** Recorder Wtr Lvl Depth Min-Max:

MAY 16 2024

Groundwater Levels for MULT 101972

Zoom All 22 Feb 2010 -- 23 Feb 2024 Water Level Daily Water Level Lithology Construction Measured Water Levels for MULT 101972. 111 All Fields Search... ▲ Time Date Water Level (BL... Water Level Elev. (FT AMSL) Organization OWRD Method Status Reviewed Meas. Point Ht. T0101972 02/23/2024 268,38 229.62 OWNR PCPR AIRLINE STATIC T0101972 02/17/2023 289.12 208.88 OWNR PCPR AIRLINE STATIC T0101972 03/15/2021 284.55 213.45 OWNR PCPR AIRLINE STATIC T0101972 03/02/2020 291.48 206.52 OWNR PCPR AIRLINE STATIC PLAUSIBLE T0101972 02/15/2019 289.17 208.83 OWNR PCPR AIRLINE STATIC PLAUSIBLE T0101972 02/26/2018 286.86 211.14 OWNR PCPR AIRLINE STATIC PLAUSIBLE T0101972 02/21/2017 289.17 208.83 OWNR PCPR AIRLINE STATIC 1.5 PLAUSIBLE T0101972 02/21/2017 289.17 208.83 OWNR PCPR AIRLINE STATIC 1.5 PLAUSIBLE T0101972 02/22/2016 291.48 206.52 OWNR PCPR AIRLINE STATIC 1.5 PLAUSIBLE T0101972 .04/02/2015 285.36 212.64 PE PCPR AIRLINE STATIC **PLAUSIBLE** T0101972 03/26/2014 286.86 211.14 PE PCPR AIRLINE STATIC 1.5 PLAUSIBLE T0101972 03/12/2013 286.86 211.14 PE PCPR **AIRLINE** STATIC 1.5 PLAUSIBLE T0101972 03/02/2012 286.86 211.14 PE PCPR **AIRLINE** STATIC 1.5 PLAUSIBLE T0101972 03/31/2011 289.17 208.83 PE **PCPR** AIRLINE STATIC 1.5 PLAUSIBLE T0101972 02/22/2010 290 208.00 DRLR WLOG REPORTED STATIC T0101972 02/22/2010 288.5 209.50 PMPI PCPR ETAPE STATIC PLAUSIBLE MAY 1 6 2024 Received Search took 0.001 sec , 1-16 of 16

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Water Use Report Based on Water Right



OWRD

Permit: G 16701 *

PORTLAND VA MEDICAL CENTER PO BOX 1034 PORTLAND, OR 97207

Records per page: 13 <u>View All</u>

Acre-feet (AF) of Water Used

Water Year*	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2023	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.41	0.53	0.70	0.40	2.21	29.00
2022	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.10	0.24	0.06	0.00	0.54	29.00
2021	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.56	0.51	0.66	0.43	2.64	32.00
2020	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.26	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.46	0.57	0.43	0.50	2.30	
2019	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.44	1.05	1.07	0.29	3.71	
2018	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.47	0.53	0.60	0.47	2.26	20.00
2017	<u>64288</u>	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.52	0.55	0.73	0.48	2.65	32.00
2016	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.51	0.70	0.49	2.18	32.00
2015	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.15	0.00	0.00	0.00	0.00	0.00	0.14	0.35	0.54	0.89	0.75	0.52	3.34	1.97
2014	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.31	0.18	0.01	0.59	1.97

2013	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.31 0.20	0.00	0.00	0.00	0.37	0.31	0.34	0.40	0.47	0.32	0.22	2.95
2012	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.32 0.26	0.00	0.00	0.00	0.39	0.33	0.33	0.38	0.41	0.30	0.23	2.95
2011	64288	EMERGENCY WATER WELL (MULT 101972/L-100244)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.41	0.31	0.32	1.43

^{*}The water year is named for the calendar year in which it ends. Example: the 2018 water year begins Oct. 1, 2017 and ends Sep. 30, 2018.

- The Water Resources Department makes reasonable efforts to screen the data for quality control; however, the Department cannot accept responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send notifications to owrd.waterusereporting@water.oregon.gov or call 971-345-7489.
- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
 - For diverted rights, the total amount diverted during the month;
 - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.



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Attachment 7: Well Tag Photo



Attachment 8: Pump Test Document

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Oregon Water Resources Department PUMP TEST FORM COVER SHEET

	Well Owner:	Well Location:
	Name: Portland VA Medical Center	Township: S Range: E
	Address: 3710 SW US Veterans Hospital Road	Section: 69AD 1/2: NE 1/16 NE 1/64: NE
	City: Boothand	Well depth: 569. Date drilled: 2-22-10
	County: Multnomah City: Portland State: OR Zip: Original owner (from well log):	Owners well no. (if any): <u>L100244</u> POD ID:
	Water Right Information:	
	Application: Permit:	Certificate:
	Is this well listed on more than one water right?	Yes If yes, list additional water rights below:
	Application: Permit: Permit:	Certificate:
		Certificate:
	Pump Test:	
	Test Conducted by:	Well Owner? Yes
	Company: Mather & Sons Pump SVC, Inc.	T W TO
	Address: 12307 NE 95th St. City: Vancouver State: WA Zig	Date of Test: <u>11/15/2010</u>
	Daytime phone: (360) 256-1310	98682
	Method of discharge measurement (see our brochure Method of water-level measurement (pick one or enter the profile of the prof	for more information): Flow meter other method used): Well Sounder
	Length of air line (if used):	
	Pump type (pick one or enter other method used): 2	0 hp Submersible
	Was the pump test conducted during normal use of the	ne well? Yes Note:
	Are you aware of any wells, other than domestic or st	
	well during the test or within 24 hours prior to the test	? Tyes Note:
	If yes, give approximate distances to each and approximate distances to each approximate distances to each and approximate distances to each approximate distances to each and approximate distances to each approximate distance distances distances and approximate distances dist	kimate numping rate of each. If possible indicate if
	they were turned on or off during the test:	amate pamping rate of each. If possible, indicate if
	Is there a lake, stream or other surface water body wit approximate distance from the well and approximate of the well head. Approx. distance:ft AWell elevation is surface water body.	elevation difference between the surface water and
	Description of measuring point (e.g. top port of 1 inch	port pipe, west side)
	Measuring point distance below land surface	
	Static water level measurements: (A minimum of the pumping begins at no less than 20 minutes apart):	ree measurements are required in the hour before
	Time Depth to water below mea	as, point Depth to water below land surface
	8:45 am 290.00	288.50
	9:05 am 290.00	288.50
	9:25 am 290.00	288 50
1	Discharge measurements: (A discharge measurements once an hour during the test; additional measurements	ent is required at the start of numping and at least
Start		Discharge Units (e.g. gpm, cfs, etc)
JICIT I	9:25 am 50.00	gpm (gallons per minute)
		gpm (gallons per minute)
		gpm (gallons per minute) gpm (gallons per minute)
Finis	h 10:30 am 120.00	gpm (gallons per minute)
	ime pump turned on: Date 11/15/2010	Time 9:45 am
Т	ime pump turned off: Date 11/16/2010	Time 10:30 am
Ŧ	otal pumping time: 24 hours 45 minu	ites
N	Note: Well must be idle for at least 16 hours prior to the	ne test
A	Additional forms can be obtained from our web site at:	1.11. //
	and the state of t	
R	Required Signature:	Received
		MAY 16 2024

Oregon Water Resources Department

PUMP TEST DATA SHEET

Page 1	of 2

Application:	Permit:	Certificate:	 Pod	_ld:	

All water-level measurements must either be in feet and inches, or feet and decimal fractions

		Dra	wdowr	Data				Reco	very D	ata	
Date	Time	Time Since Pump Started (minutes)	low g Pt		Comments	Date	Time	Time Since Pump Stopped (minutes)	ow g Pt		Comments
11/15/10	9:45 AM	0	291' 4"	290'	50 GPM						
11/15/10	9:47 AM	2	302' 4"	301'	50 GPM						
11/15/10	9:49 AM	• 4	302' 4"	301'	50 GPM						
11/15/10	9:51 AM	6	302' 4"	301'	50 GPM						
11/15/10	10:00 AM	15	302' 4"	301'	75 GPM						
11/15/10	10:05 AM	20	302' 4"	301'	75 GPM	-					
11/15/10	10:15 AM	30	304' 4"	303'	100 GPM					A	
11/15/10	10:20 AM	35	304' 4"	303'	100 GPM						
11/15/10	10:25 AM	40	308' 6"	307' 2"	100 GPM						
11/15/10	10:27 AM	42	308' 8.5"	307' 4.5"	100 GPM						
11/15/10	10:30 AM	45	308' 10"	307' 6"	120 GPM						
11/15/10	10:32 AM	47	308' 10.5"	307' 6.5"	120 GPM						
11/15/10	10:34 AM	49	308' 10.75"	307' 6.75"	120 GPM						
11/15/10	10:36 AM	51	308' 11"	307 '7"	120 GPM						7
11/15/10	10:38 AM	53	308' 11.75"	307 7.75	120 GPM						
11/15/10	10:40 AM	55	309'	307' 8"	120 GPM						
11/15/10	10:45 AM	60	309' 25"	307" 8.25"	120 GPM				je je		
11/15/10	10:50 AM	65	309' .5"	307' 8.5"	120 GPM						
11/15/10	10:55 AM	70	309' .75"	307' 8.75"	120 GPM						
11/15/10	11:00 AM	75	309' 1"	307' 9"	120 GPM						
11/15/10	11:05 AM	80	309' 1.25"	307' 9.25"	120 GPM						
11/15/10	11:10 AM	85	309' 1.50"	307' 9.5	120 GPM						
11/15/10	11:15 AM	90	309' 1.75"	307' 9.75"	120 GPM						
11/15/10	11:30 AM	105	309' 2"	307' 10"	120 GPM						
11/15/10	11:45 AM	120	309' 2.25"	307' 10.25"	120 GPM						
11/15/10	12:00 PM	135	309' 2.50"	307' 10.5"	120 GPM						
11/15/10	12:15 PM	150	309' 2.75"	307' 10.75"	120 GPM						
11/15/10	12:30 PM	1 6 5	309' 3"	307' 11"	120 GPM						100
11/15/10	12:45 PM	180	309' 3.25"	307' 11.25"	120 GPM						
11/15/10	1:00 PM	195	309' 3.5"	307' 11.5"	120 GPM						-
11/15/10	1:15 PM	210	309' 3.75"	307' 11.75"	120 GPM					-	***
11/15/10	1:30 PM	225	309' 3.75"	307' 11.75"	120 GPM						
11/15/10	1:45 PM	240	309' 3.75"	307' 11.75"	120 GPM						
11/15/10	2:00 PM	255	309' 4"	308'	120 GPM						
11/15/10	2:15 PM	270	309' 4"	308'	120 GPM						
11/15/10	2:30 PM	285	309° 4"	308'	120 GPM						
11/15/10	2:45 PM	300	309' 4"	308'	120 GPM						
11/15/10	3:00 PM	315	309' 4"	308'	120 GPM						
11/15/10	3:15 PM	330	309' 4"	308'	120 GPM						
		-									

Additional forms can be obtained from our web site at: http://www.wrd.state.or.us

120 GPM

11/15/10

4:15 PM

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PUMP TEST DATA SHEET

TOWN TEST BATA SHEET	Page 2	_ of 2
Application: Permit: Certificate:	Pod_ld:	
All water-level measurements must either be in feet and inches, or feet and decimal fractions.		

Drawdown Data Recovery Data

		Drav	vdown	Data				Reco	very D	ata	
Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
11/15/10	5:15 PM	450	311' 2"	309' 10"	120 GPM	11/16/10	10:31 AM	1	297' 4"	296'	
11/15/10	6:15 PM	510	311'3"	309' 11"	120 GPM	11/16/10	10:32 AM	2	296' 4"	295'	
11/15/10	7:15 PM	570	311'4"	310'	120 GPM	11/16/10	10:33 AM	3	296' 10"	295' 6"	
11/15/10	8:15 PM	630	311'4"	310'	120 GPM	11/16/10	10:34 AM	4	296' 7"	295' 3"	
11/15/10	9:15 PM	690	311' 4"	310'	120 GPM	11/16/10	10:35 AM	5	296' 4"	295'	
11/15/10	10:15 PM	750	311'4"	310'	120 GPM	11/16/10	10:36 AM	6	296' 3"	294' 11"	
11/15/10	11:15 PM	810	311' 4"	310'	120 GPM	11/16/10	10:37 AM	7	296' 1"	294" 9"	
11/16/10	12:15 AM	870	311' 4"	310'	120 GPM	11/16/10	10:38 AM	8	296'	294' 8"	
11/16/10	1:15 AM	930	311'4"	310'	120 GPM	11/16/10	10:39 AM	9	295' 11"	294' 7"	
11/16/10	2:15 AM	990	311'6"	310' 2"	120 GPM	11/16/10	10:40 AM	10	291' 8.5"	294 4.5"	
11/16/10	3:15 AM	1050	311'6"	310' 2"	120 GPM	11/16/10	10:41 AM	11	291' 8"	294' 4"	
11/16/10	4:15 AM	1110	311'8"	310' 4"	120 GPM	11/16/10	10:42 AM	12	295' 7.5"	294' 3.5"	
11/16/10	5:15 AM	1170	311'8"	310' 4"	120 GPM	11/16/10	10:43 AM	13	295' 6.5"	294' 2.5"	
11/16/10	8:15 AM	1230	311' 10"	310' 6"	120 GPM	11/16/10	10:44 AM	14	295' 6"	294' 2"	
11/16/10	7:15 AM	1290	311'11"	310' 7"	120 GPM	11/16/10	10:45 AM	15	295' 5"	294' 1"	
11/16/10	8:15 AM	1350	312' 1"	310' 9"	120 GPM	11/16/10	10:46 AM	16	295' 4"	294'	
11/16/10	9:15 AM	1410	312' 1"	310' 9"	120 GPM	11/16/10	10:47 AM	17	295' 3.5"	293' 11.5"	
11/16/10	10:15 AM	1470	312' 1"	310' 9"	120 GPM	11/16/10	10:51 AM	21	295' 2"	293' 10"	
11/16/10	10:30 AM	1485	312' 1"	310' 9"	120 GPM	11/16/10	10:56 AM	26	294' 11"	293" 7°	
11/16/10	10:30 AM				Shut Down	11/16/10	11:01 AM	31	294' 9"	293' 5"	
						11/16/10	11:05 AM	35	294' 7"	293' 3"	
						11/16/10	11:10 AM	40	294' 6"	293' 2"	
						11/16/10	11:15 AM	45	294' 5"	293' 1"	
						11/16/10	11:20 AM	50	294' 2.5"	292' 10.5"	
						11/16/10	11:25 AM	55	294' 1"	292' 9"	
						11/16/10	11:40 AM	70	293' 10"	292' 6"	
			-			11/16/10	11:55 AM	85	293' 7.5"	292' 3.5"	
						11/16/10	12:10 PM	100	293' 5.5"	292' 1.5"	
						11/16/10	12:25 PM	115	292'	290' 8"	
											192
-											

Additional forms can be obtained from our web site at: http://www.wrd.state.or.us

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Attachment 9: Pump Calculations

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grand gh & min mapor = 980 (6 234 2: MANYG JATOT) TROSI = HOT D

Bossier Pump (Estimate)
from Engineering Mfc Speces

m46 2,731 - 875 878,0 = (12.2) (05) = +AP ...

THURE JATOT VA WELL TOTAL HEAD: STATIC = 20 ft (PUMPTEST)

NAMMIC = 20 ft (PUMPTEST)

NAMMIC = 40 ft (PUMPTESTANK)

(13.2) XqA) = tog()

SUBMERSIBLE Well Pump of 13 BABLE MATER TANK

015 map to 1P1 = 295 4540 = (10,6)(01) = pinich = 191,64 gpm

TA DIE SATOT

TANK Height = 10 ATCARDUR WELL HEAD Test grand mon) A OS = Sim ANG & muore wold) TA OPS = SITATE : CIAZH JATOT 119 W AV

EFFICIENCY FACTOR (75%) = 6,61
WHEYE: (650 ++16/SEC/HP)(0,75 = 6,61

(Young = (horsepower) (pump efficiency) = . Em. P

Submensible Well Plans Stations Storage TANK

EM ERGENCY WELL

JATIOSOH HV MT. 92012 ZWARSTINV

April 17,2024

Attachment 10: Sprinkler Head Summary

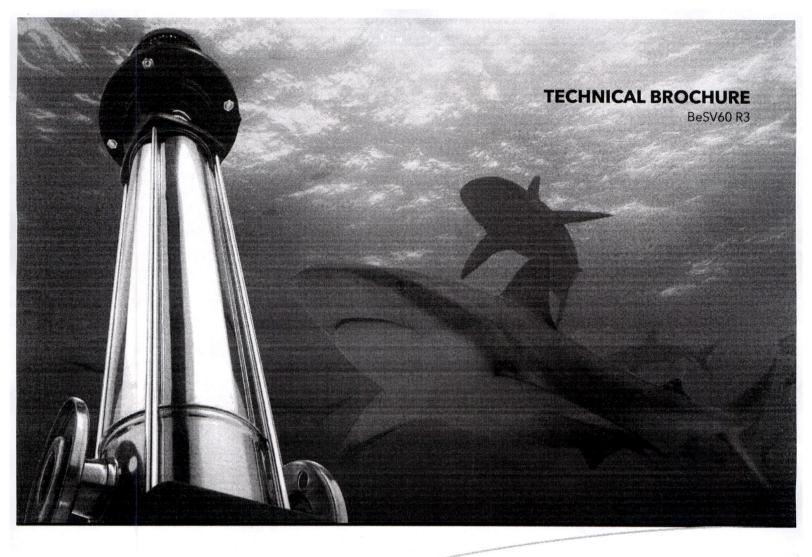
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SPRINKLER HEAD TABLE for VA CAMPUS

	Spray Head Type																									
Sprinkler Type	1					2		3							4		5	6	7	8	9					
Spray Pattern	Full	1/2	1/4	Full	270°	1/2	1/4	1/4	1/2	1/4	Full	270°	1/2	1/4	Full	1/2	1/4	1/2	112°	1/4	360° Bubbler	20°-360° Adjustable	20°-360° Adjustable	20°-360° Adjustable	Side Spray	
GPM	2	1.0	0.5	_	1.3	0.9	0.4	1	1.14		2.88	1.91	1.38	0.7	2	1.7	1	2.77	1.73	1.34	2	3.8	4.2	2.1	1	
PSI	30	30	30	20	20	20	20	-	35	35	35	35	35	35	4	4	4	35	35	35	20	35	35	35	20	
map #																										
W-7	7	84	14	-	-	-	-	-	4	-	5	4	31	-	-	-	-	2	-	1	-	9	7	-	-	
W-8	-	38	15	-	-	-	-	-	19	-	-	-	-	1-	-	-	-	2	-	1	-	-	26	-	-	
W-9	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W-10	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W-11	-	-	-	-	-	22	33	-	-	-	-	-			-	-	-	-	-	-	18	-	-	-	41	
W-12	- "	-	-	1	5	15	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	
W-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	44	9	-	-	-	-	-	-	-	-	
Total Sprinklers	7	122	29	1	5	37	40	48	23	0	5	4	31	0	3	44	9	4	0	2	18	9	33	0	82	

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e-SV™ 60 Hz Technical Manual

E-SV SERIES VERTICAL MULTI-STAGE PUMPS

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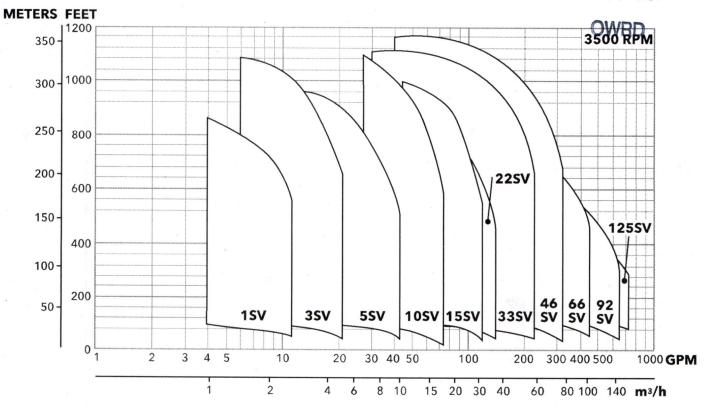


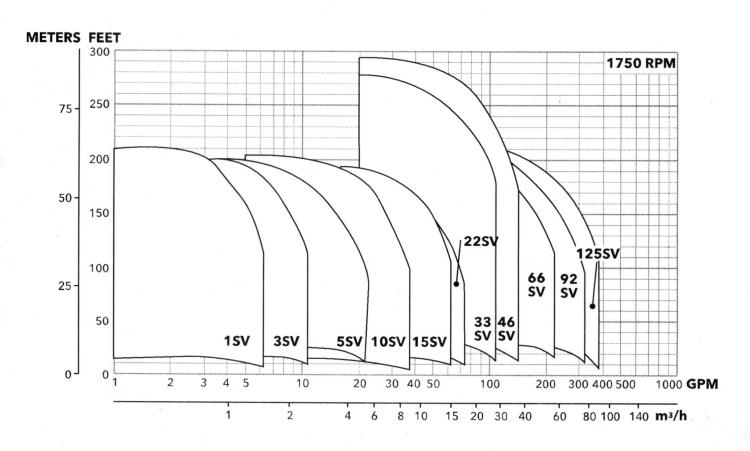
Commercial Water

e-SV Coverage Curve

Received

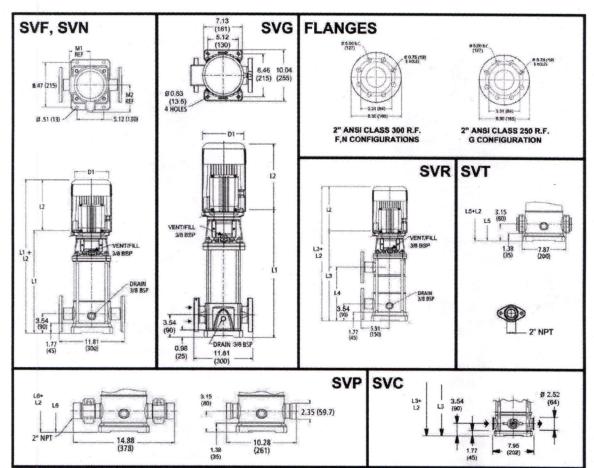
MAY 16 2024





Dimensions and Weights

10SV Series 3500 RPM



All dimensions are in inches (mm).

10SV SERIES - 60Hz, 3500 RPM ODP/TEFC Enclosures

			Motor									Dime	ension	s (in)							Г	100		We	ight (l	bs.)			
Pump			NEMA	Frame	•			L	2								D1 (r	nax.)			- 120		Мо		3 (-	Pump	/Motor	$\overline{}$
Type Stages	HP	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L1	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	L3	L4	L5	L6	M (Ref.)	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	D2	Pump Only	ODP 1Ø	TEFC 1Ø	ODP 3Ø	TEFC 3Ø	ODP 1Ø	TEFC 1Ø	_	TEFC 3Ø
10SV-01	0.75					16.56	10.79	9.91	9.16	9.29	-		16.17	16.17	5.19	6.19	6.19	6.19	6.19	4.13	36	27	29	21	21	63	65	57	57
10SV-02	2		56	iC .		16.56	11.18	12.06	11.16	10.79		-	16.17	16.17	5.74	7.19	7.19	6.19	6.19	4.72	38	43	51	32	33	81	89	70	71
10SV-03	3					17.82	11.57	13.44	11.18	11.16		-	17.43	17.43	5.75	6.50	7.19	7.16	7.19	5.51	40	49	64	41	44	89	104	81	84
10SV-04						19.58	13.93	15.43	12.55	13.93	-		19.19	19.19	6.87	8.88	8.86	9.02	8.86	5.51	46	81	92	62	69	127	138	108	115
10SV-05	5	184	ITC	182TC	184TC	20.84	13.93	15.43	12.55	13.93	20.84	10.20	20.45	20.45	6.87	8.88	8.86	9.02	8.86	5.51	48	81	92	62	69	129	140	110	117
10SV-06						22.10	13.93	15.43	12.55	13.93	22.10	11.46	21.71	21.71	6.87	8.88	8.86	9.02	8.86	5.51	50	81	92	62	69	131	142	112	119
10SV-07						23.36	13.88	15.53	13.93	15.43	23.36	12.72	22.97	22.97	8.05	8.89	10.62	8.88	8.86	5.51	52	100	120	75	85	152	172	127	137
10SV-08	7.5	213	BTC	18	4TC	24.62	13.88	15.53	13.93	15.43	24.62	13.98	24.22	24.22	8.05	8.89	10.62	8.88	8.86	5.51	54	100	120	75	85	154	174	129	139
10SV-09						25.88	13.88	15.53	13.93	15.43	25.88	15.24	25.48	25.48	8.05	8.89	10.62	8.88	8.86	5.51	56	100	120	75	85	156	176	131	141
10SV-10						27.71	16.63	16.68	15.55	15.51	27.71	16.50		27.31	8.77	10.62	10.18	10.18	10.28	5.51	66	132	145	107	122	198	211	173	188
10SV-11						28.97	16.63	16.68	15.55	15.51	28.97	17.76	-	28.57	8.77	10.62	10.18	10.18	10.28	5.51	68	132	145	107	122	200	213	175	190
10SV-12		215	STC	213TC	215TC	29.44	16.63	16.68	15.55	15.51	29.44	19.02	-	29.05	8.77	10.62	10.18	10.18	10.28	5.51	70	132	145	107	122	202	215	177	192
10SV-13						31.51	16.63	16.68	15.55	15.51	31.51	20.28	-	31.11	8.77	10.62	10.18	10.18	10.28	5.51	75	132	145	107	122	207	220	182	197
10SV-14	_					32.85	16.63	16.68	15.55	15.51	32.85	21.54		32.45	8.77	10.62	10.18	10.18	10.28	5.51	77	132	145	107	122	209	222	184	199
10SV-15						34.66			15.55	16.57		-	-	34.26	9.22			10.18	10.28	5.51	84	-		125	195	-		209	279
10SV-16						35.92			15.55	16.57				35.52	9.22	-		10.18	10.28	5.51	86	-		125	195		1.	211	281
10SV-17				215TC	254TC	37.18			15.55	16.57			-	36.78	9.22			10.18	10.28	5.51	88	-	-	125	195		-	213	283
10SV-18						38.44			15.55	16.57				38.04	9.22	-		10.18	10.28	5.51	90		-	125	195		-	215	285
10SV-19						39.78	-	-	15.55	16.57		- '		39.38	9.22			10.18	10.28	5.51	92	9.0	-	125	195		-	217	287
10SV-20	20			254TC	256TC	40.96	-	-	16.66	20.08		-	-	40.56	9.5	-		10.18	13.13	5.51	94			144	285	-	-	238	379

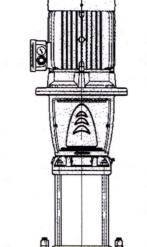
Goulds Water Technology

Commercial Water

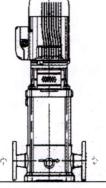
General Characteristics - 2-pole

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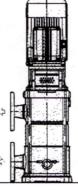
MAY 16 2024



SERIES SVT 1SV, 3SV, 5SV, 10SV, 15SV, 22SV



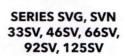
SERIES SVF, SVN 1SV, 3SV, 5SV, 10SV, 15SV, 22SV



SERIES SVR 1SV, 3SV, 5SV, 10SV, 15SV, 22SV



1SV, 3SV, 5SV, 10SV, 15SV, 22SV

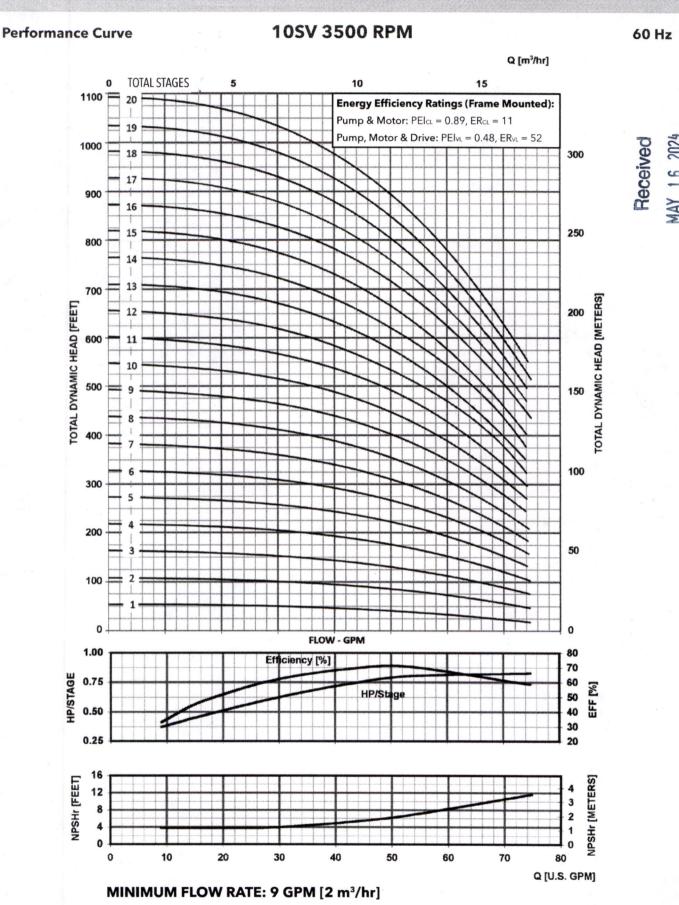




e-SV Product Range	1SV	3SV	5SV	10SV	15SV	22SV	33SV	46SV	66SV	92SV	125SV				
Nominal Flow (GPM)	9	15	30	50	80	110	150	220	350	450	600				
Flow Range(GPM)	2-12	3-22	7-45	9-75	18-125	21-150	30-195	45-285	70-420	90-580	120-700				
Max. Head (Ft)	860	1085	975	1150	1060	880	1125	1210	850	715	570				
Max. Working Pressure (PS	SIG)		580					360	/580	174.15					
Temperature Range (°F)					Standard -20	0°F - 250°F (-	30°C - 121°C)								
High Temp Option			up to 300)°F(150°C)					-						
Motor Power [HP]	½-5 HP	1/2 - 71/2	3/4 - 10	3/4 - 20	2 - 25	3-30	3-60	7½-75	10 - 75	15 - 75	20 - 75				
Max Pump Efficiency	51%	60%	70%	70%	70%	71%	76%	78%	78%	80%	79%				
Materials of Construction															
SVT			30-	4 SS	4				-						
SVF			30-	4 SS											
SVN			316	LSS			Cast Stainless Steel / 316L SS								
SVR			30-	4 SS					-						
SVP			316	LSS											
SVC			316	LSS					-		9				
SVG					ASTM Class	35/40B Cast	Iron / 304 SS								
Connection Sizes			20 T												
SVT - Oval NPT	11/4"	11/4"	11/4"	2"	2"	2"			-						
SVF - Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#			-		<				
SVN - Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#	2½" 150/300#	3" 150/300#	4" 150/300#	4" 150/300#	5" 150/300#				
SVR - Top/Bottom Round ANSI Size/Class	1¼" 300#	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2" 300#			-						
SVP - Victaulic	11/4"	11/4"	11/4"	2"	2"	2"			-						
SVC - Clamp	1½"	1½"	11/2"	2"	2"	2"			_						
SVG - Cast Iron Size/Class	1¼" 250#	1¼" 250#	1¼" 250#	2" 250#	2" 250#	2" 250#	2½" 125/250#	3" 125/250#	4" 125/250#	4" 125/250#	5" 125/250#				

Goulds Water Technology

Commercial Water



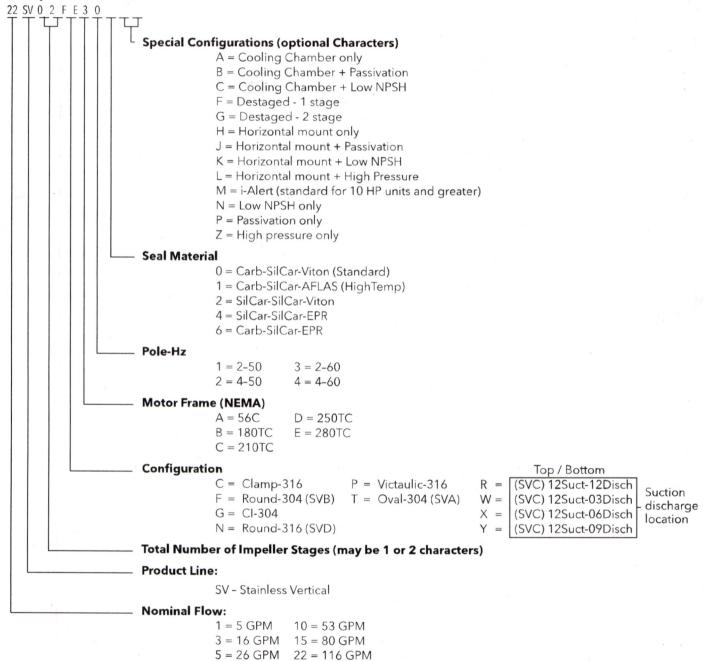
Commercial Water

e-SV Product Line

Numbering System for 1 - 22SV Liquid End Only

The various versions of the e-SV line are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below. Note: Not all combinations are possible.

Example Product Code



Received

MAY 16 2024

Attachment 12: Variance Approval

> MAY 1 2024 OWRD

RNSA Inc <rnsagroundwater@gmail.com>

Apr 23, 2024, 12:15 PM (1 day ago)

to Gerald.E.CLARK

Gerry;

Our company is working on a Claim of Beneficial Use for the V.A. Medical Center's emergency and irrigation well (Permit G-16701). We are seeking a Waiver from supplying calculations for the existing irrigation system as per Section 4 (D. Diversion and Delivery System Information) items 8, 9 and 10 of the Claim of Beneficial Use form. The reasons for this request are as follows:

- There are 556 sprinklers identified in the landscape drawings of the VA campus. Within these, there are 9 sprinkler types with 23 different flow rates (depending on spray coverage) and 4 different line pressures (see attached table).
- There is a 2,200-gallon polyethylene storage tank in the irrigation distribution system that receives water directly from the well. This tank stores water until it is needed. A booster pump connected to the poly tank pressurizes the water and pumps it into the irrigation system at a rate determined by the automated landscaped zones.
- The activation of a sprinkler zone is automatic and can occur at different times and for different lengths of time depending on the type of landscaping (some areas are indoors, on roofs and at the entrance to the hospital in above-ground enclosed containers).
- The calculations of theoretical water use would be very complex and the results would be of questionable value in determining actual use.
- A description of the distribution system had already been included in Section 3 Claim Description.
- The maximum annual use of water by this irrigation system, since 2010, as reported in the ODWR Water Use Reporting has been 3.71 ac-ft, well below the allowed duty of 4.9 ac-ft.

Roger Smith, RG, CWRE

One attachment • Scanned by Gmail



CLARK Gerald E * WRD

2:01 PM (1 hour ago)

to me

Roger,

Your request for a waiver is approved. Please supply the sprinkler table with the Claim as an attachment. In addition, please be sure to supply information about the booster pump including the theoretical calculations to ensure that we have a complete description of the system.

Received

MAY 16 2024

Have a great afternoon.

Gerry

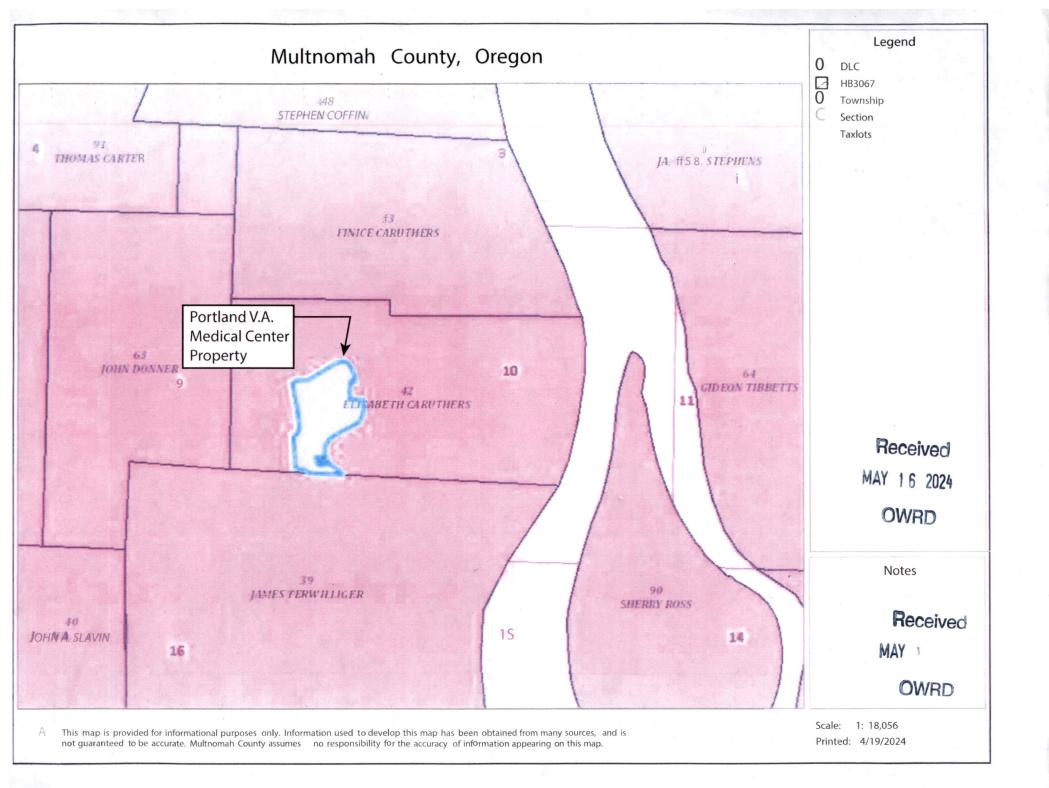
Gerry Clark He/Him/His

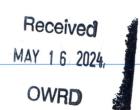
Oregon Water Resources Department
Program Analyst, Certificate Section, Water Right Services Division
725 Summer Street NE, Suite A Salem, OR 97301 | Phone 503-979-9103

Received MAY 16 2024 **OWRD**

Attachment 13: Elizabeth Caruthers DLC 42

MAY 16 2024 OWRD





Received
MAY 18 2024

RNSA, INC. Groundwater and Environmental Consultants

OWRD

May 7, 2024

Oregon Department of Water Resources 725 Summer Street NE, Suite A Salem, Oregon 97301 ATTN: Claims of Beneficial Use Section RE: Application: G-17236, Permit: 16701

Claims:

Please find enclosed a completed Claim of Beneficial Use for the VA Medical Center emergency backup well at 3710 SW US Veterans Hospital Road, Portland, OR 97239

Please feel free to contact me if you have questions about the claim.

Sincerely

Roger N. Smith, RG Geologist/Hydrogeologist, OR, WA Cert. Water Rights Examiner, OR Tel: 503-241-5444

E-mail:

RNSAgroundwater@gmail.com

Cc John Carrier, Portland VA Medical Center

