

Name Terrebonne Domestic Water District
By Glenn Williams, Chairman.....
Address P.O. Box 31.....
Terrebonne, OR 97760

Date filed April 4, 1979
Priority April 4, 1979
Action suspended until 80-01

Return to applicant _____
Date of approval _____ MAY 30 1979 _____

Date for beginning MAY 3 0 1980
 Date for completion OCT 1 1980
 Extended to 10-1-86 10-1-91; 10-1-96
 10-1-2001
 Date for application of water OCT 1 1981
 Extended to 10-1-86 10-1-91; 10-1-96
 10-1-2001

Form "A" filed _____
Form "B" filed Completed
Form "C" filed 7-16-79

Blank mailed

Proof received

Date certificate issued

Application No. G 9190
Permit No. G G 8542
Certificate No. _____

Stream Index, Page No. 5-52

Date	Amount	Receipt No.
2-4-79	35.00	10061
10-11-96	100.00	7485
	Cert. Fee	

Date	Amount	Check No.
------	--------	-----------

Date	To Whom	Address	Volume	Page

Card for BC OCT 30 1986 10 cts from 2 wells for quasi-municipal
CARD FOR C OCT 28, 1991
BC ext. to 10-1-2001 on 2/24/97 V51 P109
T-8599A AP0A1005 sp order 2 VSS p128

Form C (690-9-77)

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make final proof to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the final proof inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when all of the water has been applied.

Application No. G-9190

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

Terrebonne Domestic Water District, the holder of Permit No. G-8542

to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the 12th day of July, 1979.

Remarks: Please review previous reports submitted with original application. Beneficial use of water began in 1936.

IN WITNESS WHEREOF, I have hereunto set my hand this 12th day of July, 1979.

Alvin A. Smith, Chairman
(Signature of Applicant)

P.O. Box 31, Terrebonne, Ore 97
(Address)

OK
WMT

**REIMBURSEMENT AUTHORITY PERMIT
APPLICATION G-9190 PERMIT G-8542**

CERTIFICATE 98831 issued 11-25-2025

Application # G-9190

Permit # G-8542

Transfer #

Terrebonne Domestic Water
DistrictRA# R13138-25**Reimbursement Authority Process
Itemized FINAL Sheet**for
Certificates

	New Est. Time (hr)	Multiplie r	Total Est Hours	Individual	New Hourly Rate	New Est. Cost	Date/Act. Time
1. Review COBU - 3 wells	2.25	32%	2.98	Kerry	\$84.90	\$ 253.08	
2. Conflict Check - n/a - QM	0.00	32%	0.00	Kerry	\$84.90	\$ -	
3. Prep of def. letter - contingency time	0.75	32%	0.99	Kerry	\$84.90	\$ 84.36	
4. Enter pump test data -	0.00	32%	0.00	Kerry	\$84.90	\$ -	
5. Prep of 1 cert	4.50	32%	5.96	Kerry	\$84.90	\$ 506.17	
6a. Peer review - consultation	0.00	32%	0.00	Gerry	\$81.03	\$ -	
6b. Peer review	0.30	32%	0.30	Katie	\$112.50	\$ 33.75	
6c. Peer review	0.50	32%	0.66	Gerry	\$81.03	\$ 53.68	
7. Project Management	1.00	32%	1.32	Kerry	\$83.38	\$ 110.47	
7. Project Management	3.50	32%	4.64	Kerry	\$84.91	\$ 393.73	
8a. Water right data record update	0.75	32%	0.99	Support- Tonya	\$43.31	\$ 43.04	
8b. Water right data record update - 1 cert	1.00	32%	1.32	Data Tech- Michelle	\$58.02	\$ 76.87	
9. Pump Test -n/a - pre-dates pump test requirement	0.00	32%	0.50	Yeh	\$52.65	\$ 26.33	
10. Pump Test -n/a - pre-dates pump test requirement	0.00	32%	1.00	Josh Hackett	\$95.08	\$ 95.08	
Total	14.55		20.68		Sub Total	\$1,677	

10%

Overhead \$167.65

TOTAL **\$1,844****\$13 over (estimated cost = \$1831)**

Permit G-8542 issued 5-30-1979. A Date = 5-30-1980. B Date = 10-1-1980. C Date = 10-1-1981.

TERRE BONNE DOMESTIC WATER DISTRICT

Completion Checklist for Claims of Beneficial Use for

POST JULY 1, 2004 Claims

PROP CERT
limit 2
from each well
based on system
capacity

Application # <u>4-9190/5-8542</u>	WRD Reviewer <u>Kerry Kavanagh</u>
Transfer # <u>Permit Amend T-8599</u>	Claim Logged <u>YES</u> by <u>Corie L.</u>
Date Received <u>4-17-2025</u>	Oversized Map # <u>N/A</u>
CWRE Name <u>James B. Newton</u>	<u>2-11x17 maps - folded</u>

Map Review:

- ☒ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b)) WRIS: C date = 10-1-2001
- ☒ Application & permit #; or transfer # (OAR 690-014-0100(1)) Permit 4-8542 issued 5-30-1979.
- ☒ Disclaimer (OAR 690-014-0170(5)) Permit Amend T-8599 issued 2-18-2001
- ☒ North arrow (OAR 690-310-0050(2)(c)) - add 12 well
- ☒ CWRE stamp and signature (OAR 690-014 & 310-0050) 4-14-2025
- ☒ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310) 20 map viewer approved by Gary Clark
- ☒ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))
- ☒ Source illustrated if surface water (OAR 690-014-0170(3)) GW
- ☒ Point(s) of diversion or appropriation (illustrated) (OAR 690-014(4) & 690-310-0050)
- ☒ Point(s) of diversion or appropriation (coordinates) (OAR 690-014(4) & 690-310-0050)
- ☒ Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050)
- ☒ Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-pass devices, and measuring devices required (OAR 690-014-0170(4))
- ☒ Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

Report Review:

- ☒ On form or format provided by the Department (OAR 690-014-0100(1))
- ☒ Application & permit #; or transfer # (OAR 690-014)
- ☒ Ownership information (OAR 690-014)
- ☒ Date of survey (OAR 690-014)
- ☒ Person interviewed (OAR 690-014)
- ☒ County (OAR 690-014) DESCHUTES
- ☒ Description of conveyances system (from POD to POU) (OAR 690-014-0100)
- ☒ Source(s) of water (OAR 690-014-0100)
- ☒ Place of use location (OAR 690-014-0100)
- ☒ Type of use (OAR 690-014-0100)
- ☒ Extent of use (OAR 690-014-0100)
- ☒ Rate and Duty (OAR 690-014-0100)
- ☒ Diversion rate for each use (OAR 690-014-0100)
- ☒ Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)
- ☒ System capacity (OAR 690-014-0100)
- ☒ Calculated capacity of system (required)
- ☒ Measured amount of use (optional)
- ☒ Permit/Transfer Final Order Conditions (OAR 690-014-0100)
- ☒ Time limits
- ☒ Initial water level measurements
- ☒ Annual static water level measurements
- ☒ Measurement, recording, and reporting
- ☒ Meter/measuring device corie meters at 3 wells
- ☒ Water use reporting WRIS: WY 1989 - WY 2020 - wells 1 & 2; WY 2001 - WY 2020 for well 3
- ☒ Fish screening and/or by-pass
- ☒ Pump test (ground water) pre-dates Pump Test requirement
- ☒ Other

Conditions from Extension Final Order and/or Water Management Conservation Plan

- ☒ multiple extensions - C date extended to 10-1-1996.
- ☒ LOWRIS shows C date extended to 10-1-2001.
- ☒ CWRE stamp and signature (OAR 690-014-0100)
- ☒ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

DEF = deficient

N/A = Not Applicable

App 9-9190

Certificate Issuance Processing Checklist

Map and COBU reviewed
Conflict check Any Conflicts? QM
Check for ownership QM

PROP CERT
- limit & breed
on system capacity
for each well

Check Area of Interest ☒ YES ☐ NO
Identified Party COFD

Staff Recommendations:

Proof to the Satisfaction has been established to the full extent as described in the permit or transfer order.
Proof to the Satisfaction has been not been established to the full extent as described in the permit or transfer order and the right should be limited as follows:
Proof to the Satisfaction has not been established for the following reasons:
Proposed Actions:
Send letter requesting the following items/information:
Send letter recommending extension to cure deficiencies:

Can certificate be processed further?
Yes

If "Yes":

Proposed
Final Certificate #

Mailing list:

Proposed:

Final:

Permit G-8542 issued 5-30-1979 - 2 wells
Permit Amend T-8599 issued 2-8-2001 - Add'l PDA

- quantity of water diverted...
- shall install & maintain headgate an in-line flow meter, new or OSMD
- water shall be acquired from same aquifer

COBU Maps - 2 - PDA & Distribution
PDA - 5 1/2 NW 1/4, 5 1/2 NE 1/4, SW 1/4, SE 1/4 Sec 16, T14S R213E, W.M.

COBU Report - Sec 3 Item 6. Claim Summary

	Max rate	Calc rate	Measured	Rate Allowed
Well 1		0.34 cfs	0.27 cfs	0.27 cfs
Well 2	1.0 cfs	0.36 cfs	N/A	0.36 cfs
Well 3		1.54 cfs	1.04 cfs	1.00 cfs

> not to exceed
cumulative total
of 1.0 cfs

0.61 cfs on pg 8 of 16

STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIPT # 145087

25 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE #

RECEIVED FROM: Cascade Engineering

BY: LLC

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# OTHER: (IDENTIFY)

☐

1502

☐

TOTAL REC'D \$ 1,831.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47123 R 13138-25	\$
0413	OTHER:	(IDENTIFY) Certificate R.A	\$ 1,831.00
0243	I/S Lease		
0244	Muni Water Mgmt. Plan		
0245	Cons. Water		

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407	COPY & TAPE FEES	\$
0410	RESEARCH FEES	\$
0408	MISC REVENUE: (IDENTIFY)	\$
TC162	DEPOSIT LIAB. (IDENTIFY)	\$
0240	EXTENSION OF TIME	\$
WATER RIGHTS:		EXAM FEE
0201	SURFACE WATER	\$
0203	GROUND WATER	\$
0205	TRANSFER	\$
WELL CONSTRUCTION		EXAM FEE
0218	WELL DRILL CONSTRUCTOR	\$
LANDOWNER'S PERMIT		
OTHER (IDENTIFY)		

RECORD FEE
0202 \$
0204 \$
LICENSE FEE
0219 \$
0220 \$

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$	CARD#
0210	MONITORING WELLS	\$	CARD#
OTHER (IDENTIFY)			

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

TREASURY OTHER / RDX

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____

\$

RECEIPT: 145087

DATED: 4-25-25 BY: Lisa D Miller

Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal



OREGON WATER RESOURCES DEPARTMENT
CERTIFICATE REIMBURSEMENT AUTHORITY
APPLICANT'S AGREEMENT

Contract Number: **R13138-25**

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **Terrebonne Domestic Water District**, hereafter Applicant, hereafter known together as the parties.

OWRD Information

Project Contact: Kerry Kavanagh
Reimbursement Authority
Oregon Water Resources Department

725 Summer Street NE
Salem OR 97301-1271
Phone: 503-979-3208

Email: Kerry.L.Kavanagh@water.oregon.gov

Applicant's Information

Name: Dan Bruce
Title: District Manager
Company: Terrebonne Domestic Water District

Address: PO Box 31
Terrebonne OR 97760
Phone: 541-548-2727

Email*: tdwd@bendbroadband.com

Applicant's Representative

Name: Jim Newton
Title: Representative

Address: 21145 Scottsdale Dr
Bend OR 97701
Phone: 360-907-4162

Email*: newtonjim@hotmail.com

*By providing an Email address, consent is given to receive all correspondence electronically. (Paper copies of the certificate and final order documents will also be mailed.)

1. **Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use**. (Application Number: G-9190)
2. **Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.
3. **Restrictions.** Terrebonne Domestic Water District and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.
4. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.
5. **Consideration.** Terrebonne Domestic Water District shall pay OWRD in advance for actual costs incurred by OWRD. Terrebonne Domestic Water District agrees to pay the full amount of **\$1831** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost. The costs stated in this Agreement do not include the statutory application processing and filing fees.
6. **Confidentiality.** Terrebonne Domestic Water District agrees that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.
7. **Indemnity.** Applicant shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47123

Received by OWRD

APR 25 2025

Salem, OR

8. **Termination.** Applicant may request to terminate this agreement only in writing at any time during the process. The Applicant agrees to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.
9. **Funds Authorized and Available.** By its execution of this Agreement, Applicants certifies that sufficient funds are authorized and available to cover the expenditures contemplated by this Agreement.
10. **Duration of Estimate.** The Estimate of Time to complete the work is no later than one hundred and twenty days (120) days once this Agreement has been fully executed and payment of the estimated cost deposited. However, this estimate is contingent on the Applicant's expeditious resolution of any deficiency and may be affected by the Department's work load. This Estimate of Time may become null and void after thirty (30) days from the date the Applicant's Agreement is mailed. If the Applicant's Agreement is not received by the Department within thirty (30) days of mailing the Agreement, the Applicant may need to re-apply for a new estimate.
11. **Completion Date.** OWRD, by the execution of this Agreement does not guarantee the completion date indicated in this Agreement. Completion date is only an estimate and may be affected by the Department's workload, issues arising from the processing of the requested services and Applicant's timely response to requests for additional information.
12. **Captions.** The captions or headings in this Agreement are for the convenience only and in no way define limit or describe the scope or intent of any provision of this Agreement.
13. **Amendment and Merger.** The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, except by written instrument signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements or representations, oral or written, not specified herein regarding this Agreement.
14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: 
Name: Dan Bruce
Title: District Manager
Company: Terrebonne Domestic Water District
Date: 4-23-2025

For OWRD: 
Name: Kerry Kavanagh
Water Right Services Division
Date: 5-2-2024

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47123

Received by OWRD

APR 25 2025

Salem, OR

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, April 23, 2025 12:00 PM
To: tdwd@bendbroadband.com; jim newton
Cc: KAVANAGH Kerry L * WRD
Subject: Certificate RA Estimate R13138-25 for Terrebonne Domestic Water District involving Application G-9190
Attachments: RA contract_G-9190.pdf; estimate request_G-9190.pdf; estimate receipt_G-9190.pdf

Hello,

Please find the attached estimate and agreement to review the claim of beneficial use (Claim). If the proposed agreement is acceptable to you, please return a signed copy to our office along with the payment of the estimated cost to review the claim of beneficial use.

If you have any questions, please send me an email at kerry.l.kavanagh@water.oregon.gov.

Thanks,
Kerry

Kerry Kavanagh

Certificate Reimbursement Authority Program Coordinator
Certificate Section, Water Rights Services Division
725 Summer St NE Suite A | Salem OR 97301 | Direct 503.979.3208
kerry.l.kavanagh@water.oregon.gov | <https://www.oregon.gov/OWRD>



Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **145039**

5 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Cascade Geoeengineering LLC
BY: _____

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 1500 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47123 R13138-25	\$
	OTHER:	(IDENTIFY) certificate RA	\$ 125.00
0243	I/S Lease		
0244	Muni Water Mgmt. Plan		
0245	Cons. Water		

4270 WRD OPERATING ACCT

MISCELLANEOUS			
0407	COPY & TAPE FEES		\$
0410	RESEARCH FEES		\$
0408	MISC REVENUE: (IDENTIFY)		\$
TC162	DEPOSIT LIAB. (IDENTIFY)		\$
0240	EXTENSION OF TIME		\$
WATER RIGHTS:		EXAM FEE	RECORD FEE
0201	SURFACE WATER	\$	0202 \$
0203	GROUND WATER	\$	0204 \$
0205	TRANSFER	\$	
WELL CONSTRUCTION		EXAM FEE	LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	\$	0219 \$
	LANDOWNER'S PERMIT		0220 \$
OTHER (IDENTIFY)			

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$	CARD#
0210	MONITORING WELLS	\$	CARD#
OTHER (IDENTIFY)			

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

TREASURY OTHER / RDX

RECEIVED

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____ \$ _____

RECEIPT: **145039**

DATED: 4-17-2023 BY: mm

Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal



OREGON WATER RESOURCES DEPARTMENT
CERTIFICATE REIMBURSEMENT AUTHORITY
ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of \$125.00 per request.

<u>REQUEST</u>	<u>TYPE</u>	<u>FILE NUMBER</u>
☒	Certificate Request	Application Number <u>G-9190</u> Permit Number <u>G-8542</u> Transfer Number/Permit Amendment (if applicable) <u>T-8599</u>

	<u>Applicant Information</u>	<u>Applicant's Representative/Contact</u>
Name:	<u>Terrebonne Domestic Water District</u>	<u>Jim Newton, CWRE</u>
Address:	<u>P.O. Box 31</u>	<u>21145 Scottsdale DR</u>
	<u>Terrebonne, Oregon 97760</u>	<u>Bend, Oregon 97701</u>
Phone:	<u>541-548-2727</u>	<u>360-907-4162</u>
Fax:	_____	_____
E-Mail Address:	<u>tdwd@bendbroadband.com</u>	<u>newtonjim@hotmail.com</u>

I certify that I (check one):

- ☒ have previously filed a Claim of Beneficial Use
☒ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of **\$ 125.00**, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- For a groundwater permit, a pump test or exemption request must be submitted to OWRD prior to this request.
- The fee covers reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:
**Oregon Water Resources Department
Certificate Reimbursement Authority Program
725 Summer St. NE, Suite A
Salem, OR 97301-1271**

I certify that I am the (check one):

Applicant ☒ Applicant's Representative ☐ Other (Please specify) _____

Name: Jim Newton, CWRE

Signature: 

OWRD USE ONLY: Reimbursement Authority Number: R13138 25



Received by OWRD

APR 25 2025

Salem, OR

Date Received (Date Stamp Here)

OWRD Over-the-Counter Submission Receipt

Applicant Name(s) & Address: Dan Bruce

PO Box 31 Terrebonne, OR 97760

Transaction Type: RA

Fees Received: \$ 1831.00

☐ Cash, ☒ Check; Check No. 1502

Name(s) on Check: Cascade Geoenengineering LLC

Thank you for your submission. Oregon Water Resources Department (Department) staff will review your submittal as soon as possible.

If your submission is determined to be complete, you will receive a receipt for the fees paid and an acknowledgement letter stating your submittal is complete.

If determined to be incomplete, your submission and the accompanying fees will be returned with an explanation of deficiencies that must be addressed in order for the submittal to be accepted.

If you have any questions, please feel free to contact the Department's Customer Service staff at 503-986-0801 or 503-986-0810.

Sincerely,

OWRD Customer Service Staff

Submission received by: Sarah Benham
(Name of OWRD staff)

Instructions for OWRD staff:

- Complete this Submission Receipt and make two (2) copies. Place one copy with the check/cash; and place the other copy with the submission (i.e., the application or other document).
- Date-stamp all pages. (NOTE: Do not stamp check.)
- Give this original Submission Receipt to the applicant.
- Record Submission Receipt information on the "RECEIVED OVER THE COUNTER" log sheet.
- Fold and put one copy of the Submission Receipt with check/cash into the Safe slot. Place the other copy of the Submission Receipt with submission (application/other document) in the top drawer of filing cabinet.

POA LOCATION MAP

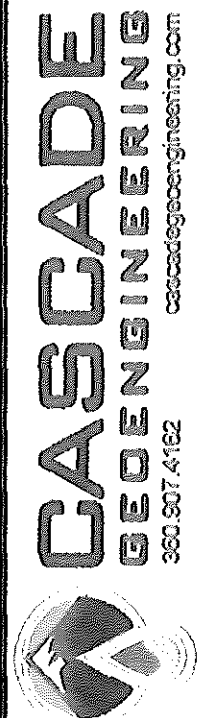
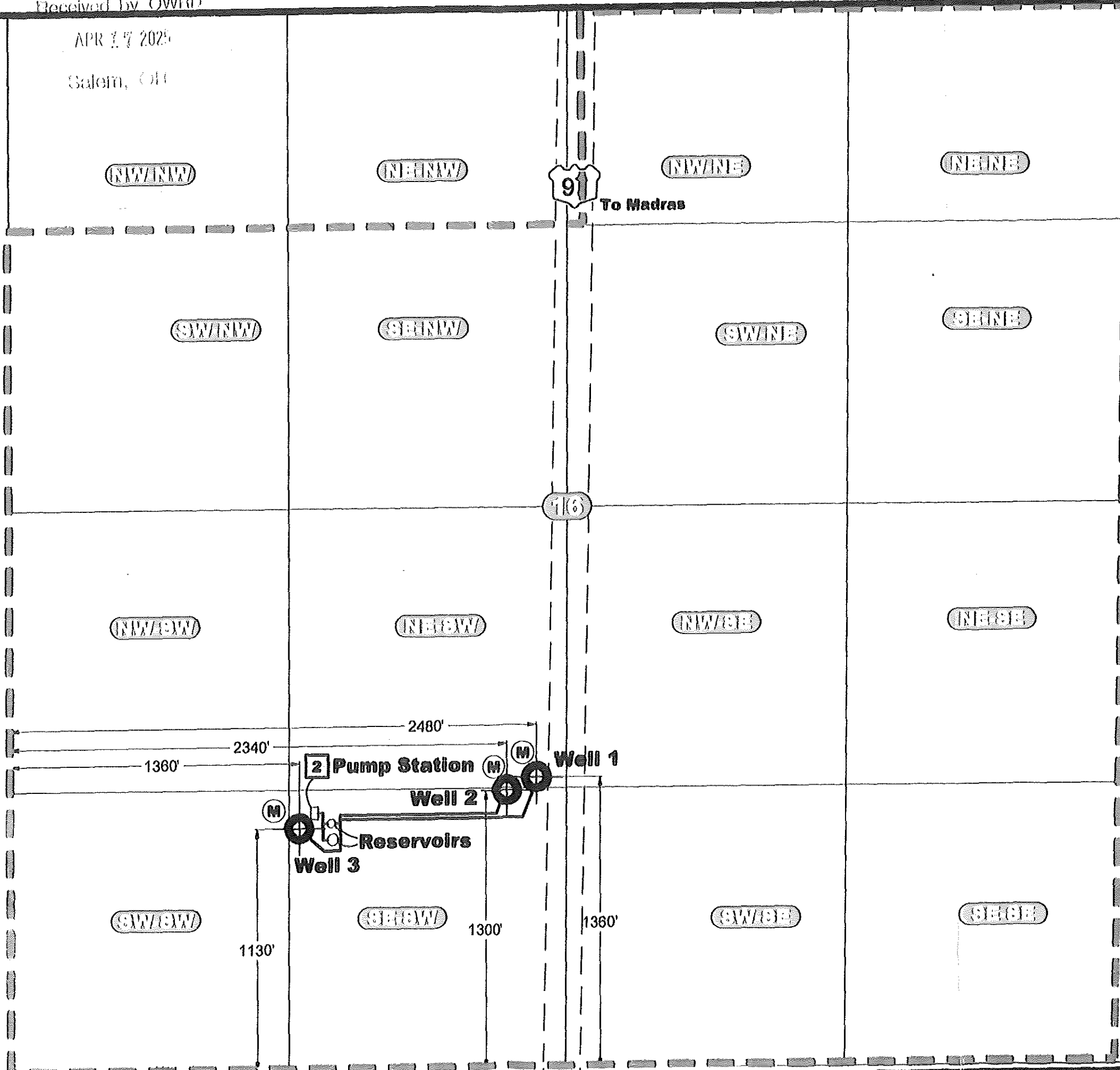
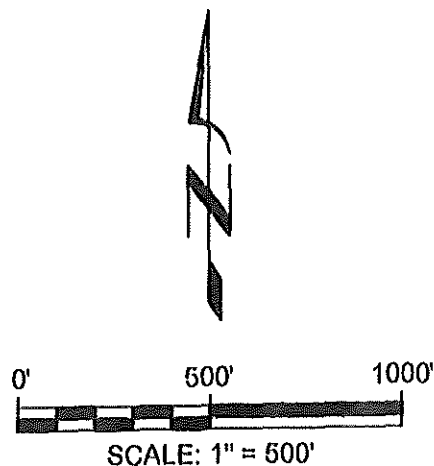
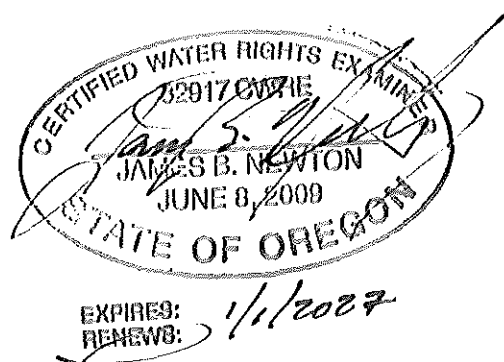
Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 10, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

-  **Well 1**
Well locations as dimensioned
-  Well Meter associated with each well.
-  Approximate location of Reservoirs
-  Water District Boundary



POA Location Map

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY: J. Newton	DRAWN BY: R2D	DATE: APRIL 2025	PROJECT NO.: CG 1031-101	FIGURE 1
---------------------------	------------------	---------------------	-----------------------------	-------------

TDWD Distribution System Map

Located in South Half of NW Qlr and
South Half of NE Qlr and also
Located in SW Qlr and SE Qlr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

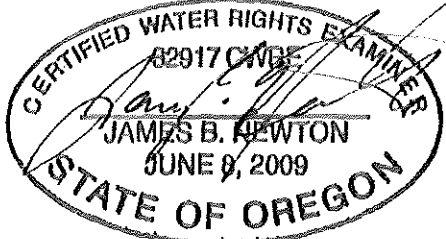
1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
- 2] Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

- Well 1**
Well locations as dimensioned on Figure 1.
- M** Well Meter associated with each well.
- Approximate location of Reservoirs
- Water District Boundary

WATERLINE LEGEND

- 12" WATERLINE
10" WATERLINE
8" WATERLINE
6" WATERLINE
≤ 4" WATERLINE



EXPIRES:
RENEWS:

1/1/2027



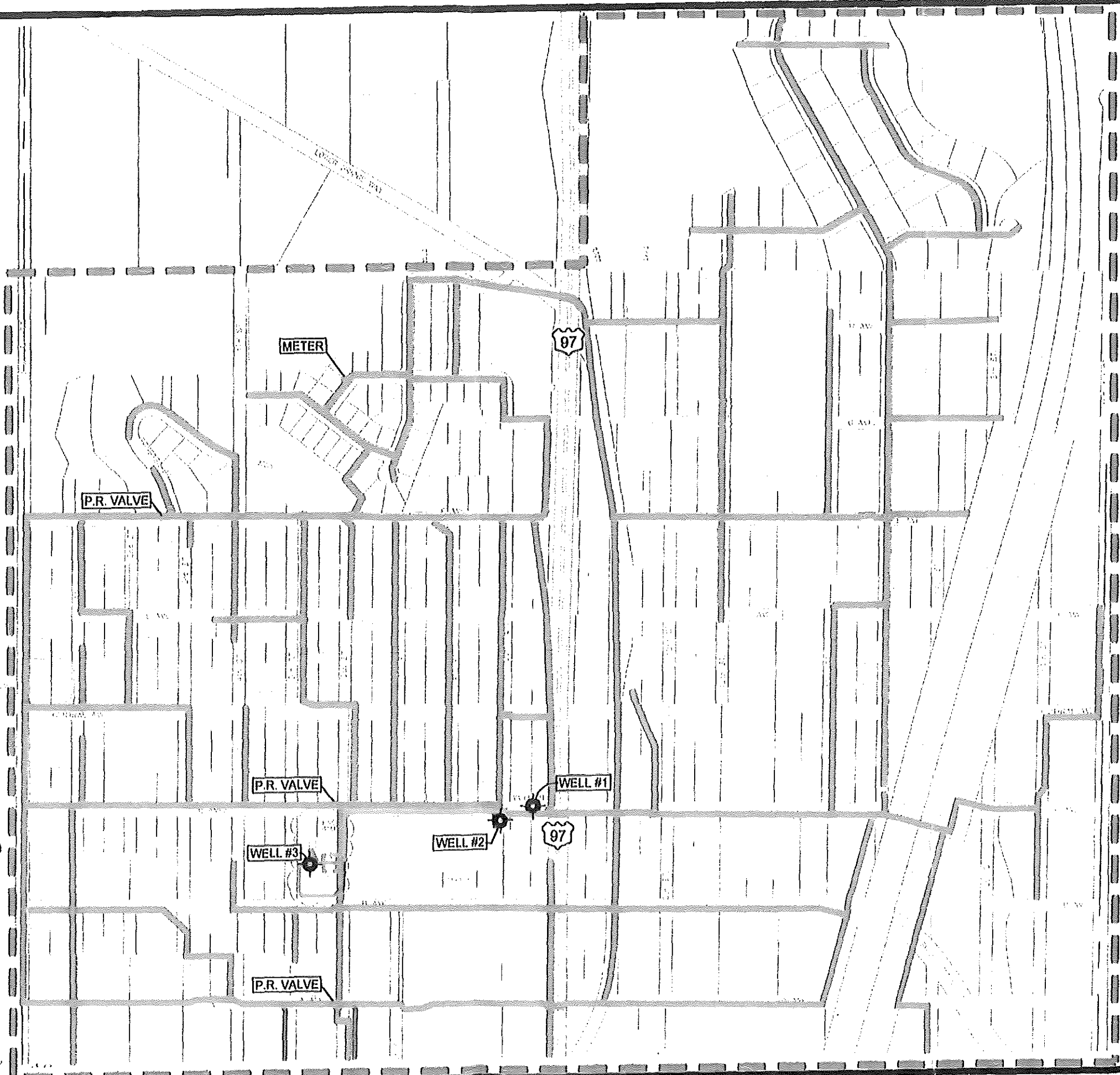
Received by OWRD

APR 17 2025

Salem, OR

0' 500' 1000'

SCALE: 1" = 500'



CASCADE
ENGINEERING
360.907.4162
cascadegengineering.com



TDWD Distribution System

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:
J. Newton

DRAWN BY:
R2D

DATE:
APRIL 2025

PROJECT NO:
CG 1031-101

FIGURE
2

Application # G-9190

Permit # G-8542

Transfer #

Terrebonne Domestic Water
DistrictRA# R13138-25

Reimbursement Authority Process
Itemized FINAL Sheet
for
Certificates

	New Est. Time (hr)	Multiplier	Total Est Hours	Individual	New Hourly Rate	New Est. Cost	Date/Act. Time
1. Review COBU - 3 wells	2.25	32%	2.98	Kerry	\$84.90	\$ 253.08	
2. Conflict Check - n/a - QM	0.00	32%	0.00	Kerry	\$84.90	\$ -	
3. Prep of def. letter - contingency time	0.75	32%	0.99	Kerry	\$84.90	\$ 84.36	
4. Enter pump test data -	0.00	32%	0.00	Kerry	\$84.90	\$ -	
5. Prep of 1 cert	4.50	32%	5.96	Kerry	\$84.90	\$ 506.17	
6a. Peer review - consultation	0.00	32%	0.00	Gerry	\$81.03	\$ -	
6b. Peer review	0.30	32%	0.30	Katie	\$112.50	\$ 33.75	
6c. Peer review	0.50	32%	0.66	Gerry	\$81.03	\$ 53.68	
7. Project Management	1.00	32%	1.32	Kerry	\$83.38	\$ 110.47	
7. Project Management	3.50	32%	4.64	Kerry	\$84.91	\$ 393.73	
8a. Water right data record update	0.75	32%	0.99	Support-Tonya	\$43.31	\$ 43.04	
8b. Water right data record update - 1 cert	1.00	32%	1.32	Data Tech-Michelle	\$58.02	\$ 76.87	
9. Pump Test -n/a - pre-dates pump test requirement	0.00	32%	0.50	Yeh	\$52.65	\$ 26.33	
10. Pump Test -n/a - pre-dates pump test requirement	0.00	32%	1.00	Josh Hackett	\$95.08	\$ 95.08	
Total	14.55		20.68		Sub Total	\$1,677	

10%
Overhead \$167.65
TOTAL \$1,844

\$13 over (estimated cost = \$1831)

Permit G-8542 issued 5-30-1979. A Date = 5-30-1980. B Date = 10-1-1980. C Date = 10-1-1981.

TERRE BONNE DOMESTIC WATER DISTRICT

Completion Checklist for Claims of Beneficial Use for

POST JULY 1, 2004 Claims

PROP CERT
for Permit
from each well
based on system
capacity

Application # <u>4-9190 / 6-8542</u>	WRD Reviewer <u>Kerry Kavanagh</u>
Transfer # <u>Permit Amend T-8599</u>	Claim Logged <u>YES</u> by <u>Corie L.</u>
Date Received <u>4-17-2025</u>	Oversized Map # <u>N/A</u>
CWRE Name <u>James B. Newton</u>	<u>2-11x17 maps - folded</u>

Map Review:

- WRIS: C date = 10-1-2001 Permit 6-8542 issued 5-30-1979.
1.0 cfs from 2 wells for QM
Permit Amend T-8599 issued 2-6-2001
- add 12 well
4-14-2025
2 map never approved by Gary Clark
- ☒ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
 - ☒ Application & permit #; or transfer # (OAR 690-014-0100(1))
 - ☒ Disclaimer (OAR 690-014-0170(5))
 - ☒ North arrow (OAR 690-310-0050(2)(c))
 - ☒ CWRE stamp and signature (OAR 690-014 & 310-0050)
 - ☒ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
 - ☒ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))
 - ☒ Source illustrated if surface water (OAR 690-014-0170(3)) GW
 - ☒ Point(s) of diversion or appropriation (illustrated) (OAR 690-014(4) & 690-310-0050)
 - ☒ Point(s) of diversion or appropriation (coordinates) (OAR 690-014(4) & 690-310-0050)
 - ☒ Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050)
 - ☒ Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-pass devices, and measuring devices required (OAR 690-014-0170(4))
 - ☒ Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

Report Review:

- COBU POA 1 (DESC 2377) - 98.42 AF
POA 2 (DESC 2387) - 26.04 AF QM
POA 3 (DESC 52862/53589) - 12.74 AF
TOTAL = 137.20 AF
- ☒ On form or format provided by the Department (OAR 690-014-0100(1))
 - ☒ Application & permit #; or transfer # (OAR 690-014)
 - ☒ Ownership information (OAR 690-014)
 - ☒ Date of survey (OAR 690-014)
 - ☒ Person interviewed (OAR 690-014)
 - ☒ County (OAR 690-014) DESCHUTES
 - ☒ Description of conveyance system (from POD to POU) (OAR 690-014-0100)
 - ☒ Source(s) of water (OAR 690-014-0100)
 - ☒ Place of use location (OAR 690-014-0100)
 - ☒ Type of use (OAR 690-014-0100)
 - ☒ Extent of use (OAR 690-014-0100)
 - ☒ Rate and Duty (OAR 690-014-0100)
 - ☒ Diversion rate for each use (OAR 690-014-0100)
 - ☒ Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)
 - ☒ System capacity (OAR 690-014-0100)
 - ☒ Calculated capacity of system (required)
 - ☒ Measured amount of use (optional)
 - ☒ Permit/Transfer Final Order Conditions (OAR 690-014-0100)
 - ☒ Time limits
 - ☒ Initial water level measurements
 - ☒ Annual static water level measurements
 - ☒ Measurement, recording, and reporting
 - ☒ Meter/measuring device COBU meters 3 wells
 - ☒ Water use reporting WRIS: WY 1989 - WY 2020 - wells 1 & 2; WY 2001 - WY 2020 for well 3
 - ☒ Fish screening and/or by-pass
 - ☒ Pump test (ground water) pre-dates Pump Test requirement
 - ☒ Other

Conditions from Extension Final Order and/or Water Management Conservation Plan

- ☒ multiple extensions - C date extended to 10-1-1996.
- ☒ WRIS shows C date extended to 10-1-2001.
- ☒ CWRE stamp and signature (OAR 690-014-0100)
- ☒ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

DEF = deficient

N/A = Not Applicable

App G-9190

Certificate Issuance Processing Checklist

Map and COBU reviewed
Conflict check Any Conflicts? QM
Check for ownership QM

Check Area of Interest ☒ YES ☐ NO
Identified Party COID

PROP CERT
- limit a breed
on system capacity
for each well

Staff Recommendations:

Proof to the Satisfaction has been established to the full extent as described in the permit or transfer order.
Proof to the Satisfaction has been not been established to the full extent as described in the permit or transfer order and the right should be limited as follows:
Proof to the Satisfaction has not been established for the following reasons:
Proposed Actions:
Send letter requesting the following items/information:
Send letter recommending extension to cure deficiencies:

Can certificate be processed further?
Yes

If "Yes":
Proposed
Final Certificate #

Mailing list:

Proposed:

Final:

Permit G-8542 issued 5-30-1979 - 2 wells
Permit Amend T-8599 issued 2-6-2001 - Add'l POA
- quantity of water diverted...
- shall install & maintain headgate an in-line flow meter, new or OSMD
- water shall be acquired from same aquifer

COBU Maps - 2 - POA & Distribution
POA - 5 1/2 NW 1/4, S 1/2 NE 1/4, SW 1/4, SE 1/4 Sec 16, T14S R213E, W.M.

COBU Report - Sec 3 Item 6. Claim Summary

	Max rate	Calc rate	Measured	Rate Allowed
Well 1		0.34 cfs	0.27 cfs	0.27 cfs
Well 2	1.0 cfs	0.36 cfs	N/A	0.36 cfs
Well 3		1.94 cfs	1.04 cfs	1.00 cfs

> not to exceed
cumulative total
of 1.0 cfs

0.61 cfs on pg 8 of 16

Water Use Report Based on Water

Permit: G 8542 *

TERREBONNE DOMESTIC WATER DISTRICT PO BOX 31 TERREBONNE, OR 97760

Records per page: [View All](#)

Acre-feet (AF) of Water Used

<u>Water Year*</u>	<u>Report ID</u>	<u>Facility</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Tot W: U:</u>
2020	<u>13200</u>	WELL 1 (DESC 2377)	0.02	0.00	0.01	0.00	0.00	0.02	0.02	0.00	0.02	0.02	0.00	0.00	(
2020	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2020	<u>35227</u>	WELL 3	9.35	7.66	9.03	7.29	7.82	13.91	23.12	27.85	45.37	44.71	34.40	26.40	250
2019	<u>13200</u>	WELL 1 (DESC 2377)	0.02	0.05	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	(
2019	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2019	<u>35227</u>	WELL 3	10.36	8.33	7.42	8.43	7.41	8.54	22.97	29.54	32.55	43.56	29.30	12.24	220
2018	<u>13200</u>	WELL 1 (DESC 2377)	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.00	0.02	0.00	0.00	0.00	(
2018	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2018	<u>35227</u>	WELL 3	8.64	7.59	7.18	8.62	6.68	9.64	20.77	34.78	37.81	38.13	38.24	17.07	230
2017	<u>13200</u>	WELL 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	(

		(DESC 2377)													
		WELL 2													
2017	<u>13201</u>	(DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
		WELL 3													
2017	<u>35227</u>		15.58	8.71	15.98	9.19	7.21	15.91	10.99	33.87	40.78	38.35	37.16	16.23	24'
		WELL 1													
2016	<u>13200</u>	(DESC 2377)	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.09	0.00	(
		WELL 2													
2016	<u>13201</u>	(DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
		WELL 3													
2016	<u>35227</u>		17.41	17.41	1.76	9.81	7.65	8.52	15.79	25.67	31.82	33.27	37.71	36.60	24'
		WELL 1													
2015	<u>13200</u>	(DESC 2377)	0.02	0.00	0.02	0.04	0.00	0.01	17.66	0.02	0.01	0.16	0.02	0.00	1'
		WELL 2													
2015	<u>13201</u>	(DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
		WELL 3													
2015	<u>35227</u>		20.85	9.15	9.49	9.00	7.65	7.41	16.28	22.37	26.88	43.94	37.24	33.67	24'
		WELL 1													
2014	<u>13200</u>	(DESC 2377)	0.05	0.15	0.17	0.15	0.00	0.02	0.02	0.02	0.00	0.35	0.22	0.00	:
		WELL 3													
2014	<u>35227</u>		9.56	10.05	9.47	9.04	8.12	7.56	13.59	19.66	35.02	34.00	30.47	28.40	21'
		WELL 1													
2013	<u>13200</u>	(DESC 2377)	12.03	8.83	8.33	5.65	8.89	5.37	9.95	7.94	4.01	0.00	0.00	0.00	7'
		WELL 2													
2013	<u>13201</u>	(DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
		WELL 3													
2013	<u>35227</u>		6.65	0.00	0.00	2.20	0.00	2.27	0.00	18.11	24.24	43.45	43.45	9.56	14'

2009	<u>13200</u>	WELL 1 (DESC 2377)	15.43	8.63	8.67	4.31	6.74	5.58	8.82	13.11	15.94	17.06	16.10	15.64	13.0
2009	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2009	<u>35227</u>	WELL 3	2.05	0.00	0.20	2.30	0.52	1.09	1.10	0.93	3.84	2.74	5.44	4.09	2.4
2008	<u>13200</u>	WELL 1 (DESC 2377)	9.25	9.33	7.46	6.50	5.47	6.98	10.51	8.46	11.44	8.56	10.33	16.29	11.0
2008	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2008	<u>35227</u>	WELL 3	3.67	0.58	1.11	1.08	3.96	1.67	0.53	11.22	11.37	25.35	26.38	11.59	9.1
2007	<u>13200</u>	WELL 1 (DESC 2377)	1.67	0.15	1.12	9.99	7.03	0.00	0.39	0.00	6.68	8.44	9.43	10.55	5.1
2007	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2007	<u>35227</u>	WELL 3	16.94	10.33	8.37	0.59	0.82	7.95	11.50	18.95	22.81	26.05	24.85	13.46	16.1
2006	<u>13200</u>	WELL 1 (DESC 2377)	11.12	6.61	8.31	2.71	5.71	9.12	6.96	7.82	10.22	0.93	5.07	7.05	8.1
2006	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2006	<u>35227</u>	WELL 3	3.27	2.65	12.56	7.79	3.17	0.00	2.58	10.69	9.66	27.81	25.78	21.92	12.1
2005	<u>13200</u>	WELL 1 (DESC 2377)	0.00	16.63	16.85	17.15	5.21	5.18	3.88	6.11	10.61	5.23	7.57	8.45	10.1

2005	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2005	<u>35227</u>	WELL 3	12.40	5.98	5.82	3.94	3.38	4.26	6.22	5.19	8.67	17.19	23.84	18.97	11:
2004	<u>13200</u>	WELL 1 (DESC 2377)	2.34	2.13	2.96	2.19	3.03	1.08	3.96	4.22	3.70	12.96	13.50	0.00	5:
2004	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2004	<u>35227</u>	WELL 3	11.64	6.33	4.49	5.40	4.30	6.46	6.23	10.20	10.10	12.78	12.78	14.27	10:
2003	<u>13200</u>	WELL 1 (DESC 2377)	0.00	0.70	2.08	1.74	2.75	1.54	2.73	2.54	1.59	2.74	6.47	5.06	2:
2003	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2003	<u>35227</u>	WELL 3	1.37	1.02	0.59	0.60	0.68	0.69	0.60	1.02	2.33	2.45	2.73	1.78	1:
2002	<u>13200</u>	WELL 1 (DESC 2377)	10.54	7.01	6.37	6.26	6.37	5.74	7.85	13.64	13.05	7.05	8.28	1.65	9:
2002	<u>13201</u>	WELL 2 (DESC 2387)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(
2002	<u>35227</u>	WELL 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	13.26	14.30	14.28	4:
2001	<u>13200</u>	WELL 1 (DESC 2377)	4.57	4.67	3.37	3.29	0.09	5.36	7.08	10.07	17.15	14.42	14.52	13.85	9:
2001	<u>13201</u>	WELL 2 (DESC 2387)	4.58	4.68	3.38	3.30	7.46	0.95	0.50	0.85	0.34	0.00	0.00	0.00	2:

2001	<u>35227</u>	WELL 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	6.06	2.62	11
2000	<u>13200</u>	WELL 1 (DESC 2377)	5.40	4.28	4.44	4.03	3.89	4.09	3.78	4.71	9.80	9.81	10.16	8.71	71
2000	<u>13201</u>	WELL 2 (DESC 2387)	5.44	4.31	4.48	4.08	3.94	4.14	5.81	4.74	9.92	9.93	10.29	8.78	71
1999	<u>13200</u>	WELL 1 (DESC 2377)	10.07	4.68	2.48	0.44	3.74	3.36	2.49	4.79	7.44	9.44	7.60	8.15	61
1999	<u>13201</u>	WELL 2 (DESC 2387)	5.94	5.04	3.41	5.45	3.81	3.49	5.89	4.83	7.52	9.62	7.71	8.30	71
1998	<u>13200</u>	WELL 1 (DESC 2377)	5.38	4.32	3.70	4.47	3.95	3.79	4.40	5.34	5.35	9.59	18.32	7.05	71
1998	<u>13201</u>	WELL 2 (DESC 2387)	4.21	3.72	3.20	3.88	3.41	3.20	4.02	4.47	4.45	8.01	9.04	8.35	51
1997	<u>13200</u>	WELL 1 (DESC 2377)	6.31	4.05	3.91	4.06	3.73	3.53	4.30	6.75	7.39	8.07	10.72	6.48	61
1997	<u>13201</u>	WELL 2 (DESC 2387)	3.33	3.45	3.42	3.67	3.14	3.15	3.80	5.97	6.43	7.02	9.32	6.03	51
1995	<u>13200</u>	WELL 1 (DESC 2377)	6.05	4.38	4.61	4.40	4.37	3.90	4.57	4.82	7.21	8.28	8.92	9.15	71
1995	<u>13201</u>	WELL 2 (DESC 2387)	3.84	2.54	2.72	2.47	2.51	2.23	2.69	2.90	4.72	5.51	6.73	5.49	41
1994	<u>13200</u>	WELL 1 (DESC 2377)	5.70	4.61	4.83	4.35	4.35	4.24	5.17	6.26	7.42	10.70	10.40	8.19	71

1994	<u>13201</u>	WELL 2 (DESC 2387)	3.56	2.71	2.81	2.50	2.54	2.46	3.63	4.00	4.87	7.50	7.22	5.43	4.9
1993	<u>13200</u>	WELL 1 (DESC 2377)	5.21	4.17	5.19	4.35	4.27	5.26	4.27	5.79	7.25	8.22	8.34	7.10	6.9
1993	<u>13201</u>	WELL 2 (DESC 2387)	2.95	2.38	2.28	2.68	2.68	3.08	2.48	3.85	4.84	5.52	5.58	4.62	4.9
1992	<u>13200</u>	WELL 1 (DESC 2377)	4.75	4.66	4.68	4.39	3.91	4.68	5.04	7.21	9.51	7.72	9.65	6.44	7.9
1992	<u>13201</u>	WELL 2 (DESC 2387)	2.86	2.57	5.14	2.40	2.14	2.60	2.94	4.58	6.14	4.86	6.24	3.92	4.9
1991	<u>13200</u>	WELL 1 (DESC 2377)	3.98	5.15	4.95	4.77	4.35	4.68	4.95	5.41	6.81	9.73	8.10	7.97	7.9
1991	<u>13201</u>	WELL 2 (DESC 2387)	2.46	3.14	3.03	2.83	2.50	2.71	2.92	3.33	4.28	6.33	5.41	4.97	4.9
1990	<u>13200</u>	WELL 1 (DESC 2377)	5.25	4.49	3.99	4.40	3.77	4.17	5.69	6.06	6.98	8.95	8.59	6.03	6.9
1990	<u>13201</u>	WELL 2 (DESC 2387)	3.39	2.48	2.74	3.02	2.59	2.88	4.04	4.21	4.76	6.05	5.59	3.84	4.9
1989	<u>13200</u>	WELL 1 (DESC 2377)		3.87	4.36	3.81	4.20	4.37	4.21	5.51	9.33	9.34	7.39	6.31	6.9
1989	<u>13201</u>	WELL 2 (DESC 2387)		2.58	2.91	2.54	2.79	2.90	2.96	3.70	5.42	5.49	4.51	4.36	4.9

*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 responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send email 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 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 amount 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 acre-foot 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 reported, it is assumed that no water was used for that year.

Facility Water Use Report


☒ excel

☐ text

WELL 1 (DESC 2377)
Report ID 13200

WELL 1;

1360 FEET NORTH AND 2480 FEET EAST FROM SW CORNER, SECTION 16

(14S-13E-16-NE SW)

Permit: G 8542 *
TERREBONNE DOM WATER SERVICE DIST

 Records per page:

Acre-feet (AF) of Water Used

<u>Water Year*</u>	<u>Method of Measurement</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Total Water Used</u>
2020	FMT	0.02	0.00	0.01	0.00	0.00	0.02	0.02	0.00	0.02	0.02	0.00	0.00	0.1
2019	FMT	0.02	0.05	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.1
2018	FMT	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.10
2017	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12
2016	FMT	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.09	0.00	0.12
2015	FMT	0.02	0.00	0.02	0.04	0.00	0.01	17.66	0.02	0.01	0.16	0.02	0.00	17.90
2014	FMT	0.05	0.15	0.17	0.15	0.00	0.02	0.02	0.02	0.00	0.35	0.22	0.00	1.10
2013		12.03	8.83	8.33	5.65	8.89	5.37	9.95	7.94	4.01	0.00	0.00	0.00	70.90
2009		15.43	8.63	8.67	4.31	6.74	5.58	8.82	13.11	15.94	17.06	16.10	15.64	136.00
2008		9.25	9.33	7.46	6.50	5.47	6.98	10.51	8.46	11.44	8.56	10.33	16.29	110.50
2007		1.67	0.15	1.12	9.99	7.03	0.00	0.39	0.00	6.68	8.44	9.43	10.55	55.40
2006		11.12	6.61	8.31	2.71	5.71	9.12	6.96	7.82	10.22	0.93	5.07	7.05	81.60
2005		0.00	16.63	16.85	17.15	5.21	5.18	3.88	6.11	10.61	5.23	7.57	8.45	102.80
2004		2.34	2.13	2.96	2.19	3.03	1.08	3.96	4.22	3.70	12.96	13.50	0.00	52.00
2003		0.00	0.70	2.08	1.74	2.75	1.54	2.73	2.54	1.59	2.74	6.47	5.06	29.90
2002		10.54	7.01	6.37	6.26	6.37	5.74	7.85	13.64	13.05	7.05	8.28	1.65	93.80
2001		4.57	4.67	3.37	3.29	0.09	5.36	7.08	10.07	17.15	14.42	14.52	13.85	98.40
2000		5.40	4.28	4.44	4.03	3.89	4.09	3.78	4.71	9.80	9.81	10.16	8.71	73.10
1999		10.07	4.68	2.48	0.44	3.74	3.36	2.49	4.79	7.44	9.44	7.60	8.15	64.60
1998		5.38	4.32	3.70	4.47	3.95	3.79	4.40	5.34	5.35	9.59	18.32	7.05	75.60
1997		6.31	4.05	3.91	4.06	3.73	3.53	4.30	6.75	7.39	8.07	10.72	6.48	69.20

1995	6.05	4.38	4.61	4.40	4.37	3.90	4.57	4.82	7.21	8.28	8.92	9.15	70.61
1994	5.70	4.61	4.83	4.35	4.35	4.24	5.17	6.26	7.42	10.70	10.40	8.19	76.21
1993	5.21	4.17	5.19	4.35	4.27	5.26	4.27	5.79	7.25	8.22	8.34	7.10	69.41
1992	4.75	4.66	4.68	4.39	3.91	4.68	5.04	7.21	9.51	7.72	9.65	6.44	72.61
1991	3.98	5.15	4.95	4.77	4.35	4.68	4.95	5.41	6.81	9.73	8.10	7.97	70.81
1990	5.25	4.49	3.99	4.40	3.77	4.17	5.69	6.06	6.98	8.95	8.59	6.03	68.31
1989		3.87	4.36	3.81	4.20	4.37	4.21	5.51	9.33	9.34	7.39	6.31	62.71

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

Method(s) of Measurement:

FMT Flowmeter (recording monthly readings and then reporting the difference between one month's reading and the next)

- 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 difference between two readings 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 acre-foot 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 reported for that year.

Facility Water Use Report



☒ excel
☐ text

WELL 2 (DESC 2387) Report ID 13201

WELL 2;
1300 FEET NORTH AND 2340 FEET EAST FROM SW CORNER, SECTION 16
(14S-13E-16-SE SW)

Permit: G 8542 *

TERREBONNE DOM WATER SERVICE DIST

Records per page:

Acre-feet (AF) of Water Used

<u>Water Year*</u>	<u>Method of Measurement</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Total Water Used</u>	<u>Irrigated Acres</u>
2020	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2019	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2018	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2017	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2016	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2015	FMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2007		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2006		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2005		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2004		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2003		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2001		4.58	4.68	3.38	3.30	7.46	0.95	0.50	0.85	0.34	0.00	0.00	0.00	26.04	
2000		5.44	4.31	4.48	4.08	3.94	4.14	5.81	4.74	9.92	9.93	10.29	8.78	75.85	
1999		5.94	5.04	3.41	5.45	3.81	3.49	5.89	4.83	7.52	9.62	7.71	8.30	71.01	
1998		4.21	3.72	3.20	3.88	3.41	3.20	4.02	4.47	4.45	8.01	9.04	8.35	59.97	
1997		3.33	3.45	3.42	3.67	3.14	3.15	3.80	5.97	6.43	7.02	9.32	6.03	58.73	
1995		3.84	2.54	2.72	2.47	2.51	2.23	2.69	2.90	4.72	5.51	6.73	5.49	44.35	

1994	3.56	2.71	2.81	2.50	2.54	2.46	3.63	4.00	4.87	7.50	7.22	5.43	49.22
1993	2.95	2.38	2.28	2.68	2.68	3.08	2.48	3.85	4.84	5.52	5.58	4.62	42.96
1992	2.86	2.57	5.14	2.40	2.14	2.60	2.94	4.58	6.14	4.86	6.24	3.92	46.39
1991	2.46	3.14	3.03	2.83	2.50	2.71	2.92	3.33	4.28	6.33	5.41	4.97	43.89
1990	3.39	2.48	2.74	3.02	2.59	2.88	4.04	4.21	4.76	6.05	5.59	3.84	45.59
1989	2.58	2.91	2.54	2.79	2.90	2.96	3.70	5.42	5.49	4.51	4.36	40.16	

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

Method(s) of Measurement:

FMT Flowmeter (recording monthly readings and then reporting the difference between one month's reading and the next)

- 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 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 re 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 received for that year.

Facility Water Use Report



☒ excel
☐ text

WELL 3 Report ID 35227

WELL 3;
1130 FEET NORTH AND 1360 FEET EAST FROM SW CORNER, SECTION 16
(14S-13E-16-SE SW)

Permit: G 8542 *

TERREBONNE DOM WATER SERVICE DIST

Records per page:

Acre-feet (AF) of Water Used

<u>Water Year*</u>	<u>Method of Measurement</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Total Water Used</u>
2020	FMT	9.35	7.66	9.03	7.29	7.82	13.91	23.12	27.85	45.37	44.71	34.40	26.40	256.85
2019	FMT	10.36	8.33	7.42	8.43	7.41	8.54	22.97	29.54	32.55	43.56	29.30	12.24	220.65
2018	FMT	8.64	7.59	7.18	8.62	6.68	9.64	20.77	34.78	37.81	38.13	38.24	17.07	235.16
2017	FMT	15.58	8.71	15.98	9.19	7.21	15.91	10.99	33.87	40.78	38.35	37.16	16.23	249.95
2016	FMT	17.41	17.41	1.76	9.81	7.65	8.52	15.79	25.67	31.82	33.27	37.71	36.60	243.42
2015	FMT	20.85	9.15	9.49	9.00	7.65	7.41	16.28	22.37	26.88	43.94	37.24	33.67	243.95
2014	FMT	9.56	10.05	9.47	9.04	8.12	7.56	13.59	19.66	35.02	34.00	30.47	28.40	214.96
2013		6.65	0.00	0.00	2.20	0.00	2.27	0.00	18.11	24.24	43.45	43.45	9.56	149.94
2009		2.05	0.00	0.20	2.30	0.52	1.09	1.10	0.93	3.84	2.74	5.44	4.09	24.30
2008		3.67	0.58	1.11	1.08	3.96	1.67	0.53	11.22	11.37	25.35	26.38	11.59	98.55
2007		16.94	10.33	8.37	0.59	0.82	7.95	11.50	18.95	22.81	26.05	24.85	13.46	162.62
2006		3.27	2.65	12.56	7.79	3.17	0.00	2.58	10.69	9.66	27.81	25.78	21.92	127.86
2005		12.40	5.98	5.82	3.94	3.38	4.26	6.22	5.19	8.67	17.19	23.84	18.97	115.85
2004		11.64	6.33	4.49	5.40	4.30	6.46	6.23	10.20	10.10	12.78	12.78	14.27	104.98
2003		1.37	1.02	0.59	0.60	0.68	0.69	0.60	1.02	2.33	2.45	2.73	1.78	15.87
2002		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	13.26	14.30	14.28	43.60
2001		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	6.06	2.62	12.74

*The water year is named for the calendar year in which it ends. Example: the 2014 water year begins Oct. 1, 2013 and ends Sep. 30, 2014.

Method(s) of Measurement:

FMT Flowmeter (recording monthly readings and then reporting the difference between one month's reading and the next)

- 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 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; 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 received for that year.

Oregon Water Resources Department
Groundwater Information System

Groundwater Site: DESC 2377

[Main](#) [Help](#)
[Return](#) [Contact Us](#)

Site Identification (Click to Collapse...)

GW LogID: DESC 2377 [Well Log Database](#)
GW Well Tag Number:
Tag Verified on Well: No
Site Type: WELL
Primary Use:
Unused Status:
Site Source Organization:
Site Source OWRD:
Established By: bouchiac
Established Date: 12/30/2016
Bonded Company: CRAWFORD WELL DRILLING INC.
Stage: COMPLETE

Location (Click to Collapse...)

Latitude/Longitude
Latitude: 44.35239230 Horiz. Error: 1000.00
Longitude: -121.17901974 Datum: WGS1984
Lat/Long Source: WR UNKNOWN SOURCE
Location
TRSQQ: WM 14.00S13.00E16SESW
Tax Map:
Taxlot:
24 Quad: REDMOND
Basin: 5 - Deschutes
County: Deschutes
WM District: 11
WM Region: C
LSD Elev: 2869.00 Accy: 15.00 Datum: NAVD1988
Elev Source: UGAR
[Groundwater Mapping Tool](#)



Oregon Water Resources Department and Bureau ... Powered by Esri

Water Rights (Click to Expand...)

Well Construction History (Click to Collapse...)

Well Construction History

Well Log Id	Well Log	Work Type	Startcard	Well Tag	Owner Name	First Water	Max Case Diam.	Max Case Depth	Max Seal Depth	Max Depth	Completed Depth	Complete Date
DESC 2377	LOG				TERREBONNE WATER DISTRICT	258.00					378.00	1/22/1981

Well Log	Aquifer	Aq at Max Depth	System Aquifer	Regional USGS Aquifer	Local USGS Aquifer
DESC 2377					

Well Test

No data matches search criteria.

Lithology (Click to Expand...)

Measured Water Level (Click to Collapse...)

Records/Page: 20 Find

Measured Water Level

Date	Time	Water Level (BUSD)	WL Elev (ft AMSL)	Organization	OWRD	Method	Status	MP Height
1/22/1981		256.00	2613.00	DRILLER	WELL LOG	REPORTED	UNKNOWN	

Available Data (Click to Expand...)

Other Documents/Images (Click to Expand...)

Oregon Water Resources Department
Groundwater Information System

Groundwater Site: DESC 2387

[Main](#) [Help](#)
[Return](#) [Contact Us](#)

Site Identification (Click to Collapse...)

GW LogID: DESC 2387 [Well Log Database](#)
GW Well Tag Number:
Tag Verified on Well: No
Site Type: WELL
Primary Use: PUBLIC SUPPLY
Unused Status:
Site Source Organization:
Site Source OWRD:
Established By: Karl Wozniak
Established Date: 12/26/2007
Bonded Company: DALE CRAWFORD WELL DRILLING
CONSULTANT
Stage: COMPLETE

Location (Click to Collapse...)

Latitude/Longitude
Latitude: 44.35239000 Horiz. Error: 50.00
Longitude: -121.17983000 Datum: WGS1984
Lat/Long Source: OTHER
Location
TRSQQ: WM 14.00S13.00E16SESW
Tax Map:
Taxlot:
24 Quad: REDMOND
Basin: 5 - Deschutes
County: Deschutes
WM District: 11
WM Region: C
LSD Elev: 2874.00 Accy: 10.00 Datum: NGVD1929
Elev Source: 7.5-MINUTE MAP
[Groundwater Mapping Tool](#)



Oregon Water Resources Department and Bureau ... Powered by Esri

Water Rights (Click to Expand...)

Well Construction History (Click to Collapse...)

Well Construction History

Well Log Id	Well Log	Work Type	Startcard	Well Tag	Owner Name	First Water	Max Case Diam.	Max Case Depth	Max Seal Depth	Max Depth	Completed Depth	Complete Date
DESC 2387	Log	NEW			TERREBONNE DOMESTIC WATER DISTRICT						381.00	4/8/1968

Well Log	Aquifer	Aquit Max Depth	System Aquifer	Regional USGS Aquifer	Local USGS Aquifer
DESC 2387	Quaternary-Late Tertiary Vol & Volcaniclastic Aq	Quaternary-Late Tertiary Vol & Volcaniclastic Aq	Quaternary-Late Tertiary Volcanic and Volcaniclastic Rock Aquifers		

Well Test

No data matches search criteria.

Lithology (Click to Expand...)

Measured Water Level (Click to Collapse...)

Records/Page: 20 Find

Measured Water Level

Date	Time	Water Level (BLSD)	WL Elev (ft AMSL)	Organization	OWRD	Method	Status	MP Height
4/8/1968		240.00	2634.00	DRILLER	WELL LOG	REPORTED	UNKNOWN	

Available Data (Click to Expand...)

Other Documents/Images (Click to Expand...)

Other Identifiers (Click to Expand...)

**Oregon Water Resources Department
Water Right Research Query**[Main](#) [Help](#)
[Return](#) [Contact Us](#)*Well 3*

Permit: G 8542 *

POD DescriptionTERREBONNE DOMESTIC WATER
DISTRICT
PO BOX 31
TERREBONNE, OR 97760Name: POD 3 - WELL 3 > DESCHUTES RIVER
T-R-S-QQ: 14.00S-13.00E-16-SE SW
Location 1130 FEET NORTH AND 1360 FEET EAST FROM SW
Description: CORNER, SECTION 16

POD Uses (Click to Collapse...)

QUASI-MUNICIPAL USES (Primary)

Priority Date	Max Rate (cfs)	Rate (cfs)	Max Volume (af)	Volume (af)	Rate/Acre	Duty	Start Date	End Date	Remarks
4/4/1979	1.0	0.0(est)					1/1	12/31	DIVERSION LIMITED TO QUANTITY AVAILABLE AT ORIGINAL POD

Search CriteriaType of Water Right: ☒ Ground Water
☒ Surface Water
☒ StorageDistance from
Stream(ft.): Include Supplemental ☐Day in Year Month: 6 Day: 1 Priority Date 4/4/1979 Comparison Type Junior Direction Upstream Use Category (select All /None):

- | | |
|---|--|
| ☒ Agriculture | ☒ Domestic |
| ☒ Fish | ☒ Industrial |
| ☒ Irrigation | ☒ Instream |
| ☒ Livestock | ☒ Mining |
| ☒ Miscellaneous | ☒ Municipal |
| ☒ Power | ☒ Recreational |
| ☒ Storage | ☒ Wildlife |

Oregon Water Resources Department Groundwater Information System

Groundwater Site: DESC 2377

[Main](#)
[Return](#)

Site Identification

(Click to Collapse...)

GW LogID: DESC 2377 [Well Log Database](#)

GW Well Tag Number:

Tag Verified on Well: No

Site Type: WELL

Primary Use:

Unused Status:

Site Source Organization:

Site Source OWRD:

Established By: bouchiac

Established Date: 12/30/2016

Bonded Company: CRAWFORD WELL DRILLING INC.

Stage: COMPLETE

Location

(Click

Latitude: 44.35239230

Longitude: -121.1790197

Lat/Long Source: WR UNKNOW

TRSQQ: WM 14.00S13.1

Tax Map:

Taxlot:

24 Quad: REDMOND

Basin: 5 - Deschutes

County: Deschutes

WM District: 11

WM Region: C

LSD Elev: 2869.00 Accy:

Elev Source: LIDAR

[Groundwater Map](#)

Water Rights

(Click to Expand...)

Well Construction History

(Click to Collapse...)

Well Construc

<u>Well Log id</u>	<u>Well Log</u>	<u>Work Type</u>	<u>Startcard</u>	<u>Well Tag</u>	<u>Owner Name</u>	<u>First Water</u>	<u>M</u>
DESC 2377	Log				TERREBONNE WATER DISTRICT	258.00	

<u>Well Log</u>	<u>Aquifer</u>	<u>Aq at Max Depth</u>	<u>System Aquifer</u>
DESC 2377			

Well

No data matches search criteria.

Lithology

(Click to Expand...)

Measured Water Level

(Click to Collapse...)

Records/Page:

Measured Water Level

Oregon Water Resources Department
Groundwater Information System

Groundwater Site: DESC 2387

[Main](#)
[Return](#)

Site Identification

(Click to Collapse...)

GW LogID: DESC 2387 [Well Log Database](#)
GW Well Tag Number:
Tag Verified on Well: No
Site Type: WELL
Primary Use: PUBLIC SUPPLY
Unused Status:
Site Source Organization:
Site Source OWRD:
Established By: Karl Wozniak
Established Date: 12/26/2007
Bonded Company: DALE CRAWFORD WELL DRILLING
CONSULTANT
Stage: COMPLETE

Location

(Click

Latitude: 44.35239000
Longitude: -121.1798300
Lat/Long Source: OTHER
TRSQQ: WM 14.00S13.0
Tax Map:
Taxlot:
24 Quad: REDMOND
Basin: 5 - Deschutes
County: Deschutes
WM District: 11
WM Region: C
LSD Elev: 2874.00 Accy:
Elev Source: 7.5-MINUTE M.
[Groundwater Map](#)

Water Rights

(Click to Expand...)

Well Construction History

(Click to Collapse...)

Well Construction History

Well Log id	Well Log	Work Type	Startcard	Well Tag	Owner Name	First Water
DESC 2387	Log	NEW			TERREBONNE DOMESTIC WATER DISTRICT	

Well Log	Aquifer	Aq at Max Depth
DESC 2387	Quaternary-Late Tertiary Vol & Volcaniclastic Aq	Quaternary-Late Tertiary Vol & Volcaniclastic Aq

Well Construction History

No data matches search criteria.

Lithology

(Click to Expand...)

Measured Water Level

(Click to Collapse...)

POA LOCATION MAP

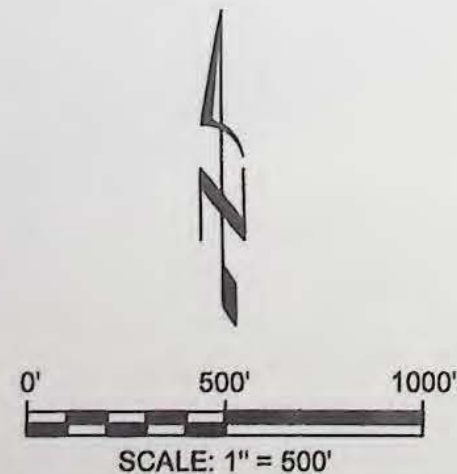
Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

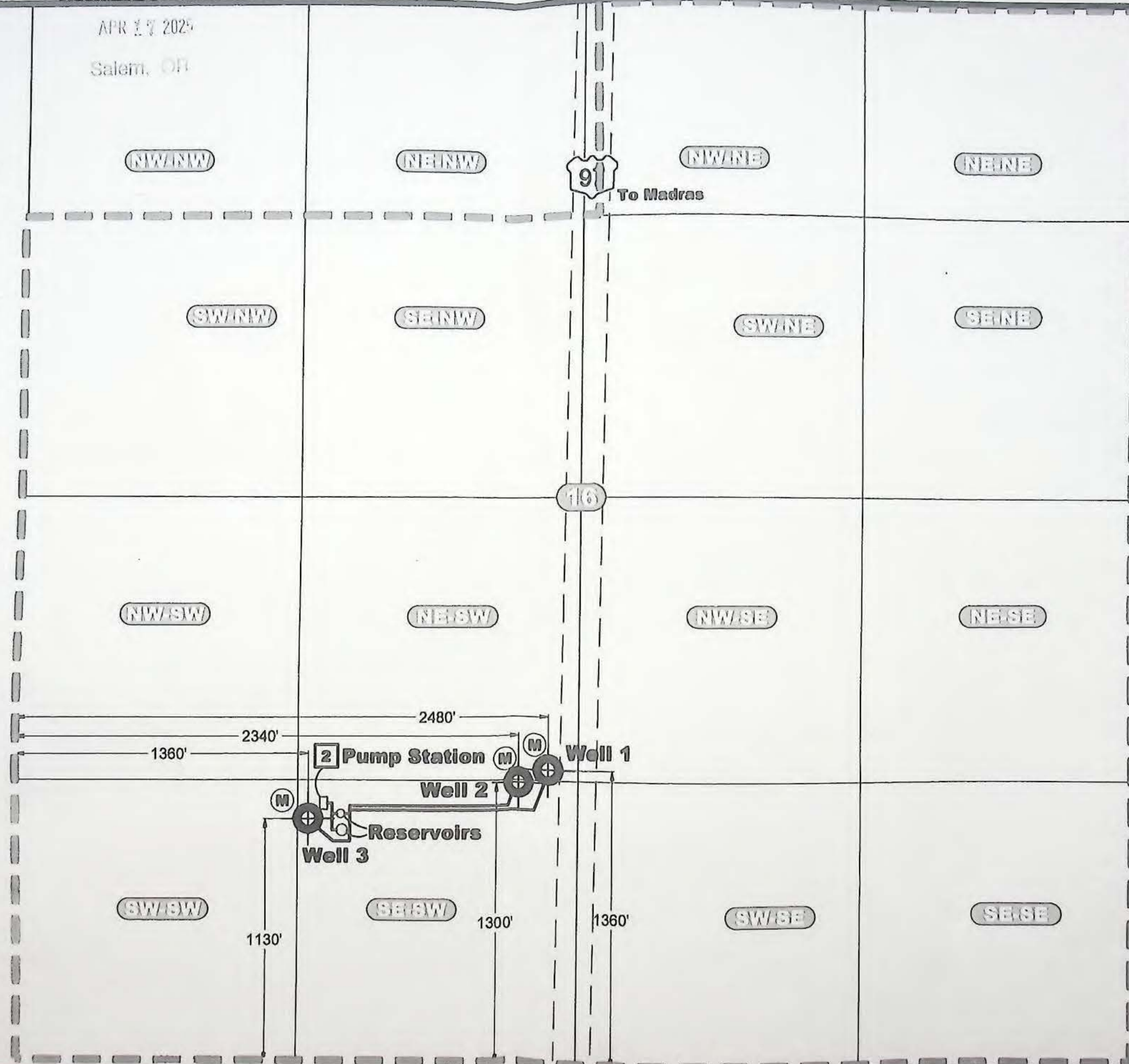
1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

- Well 1**
Well locations as dimensioned
- (M)** Well Meter associated with each well.
- Approximate location of Reservoirs
- Water District Boundary



APR 17 2025
Salem, OR

**POA Location Map**

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY: J. Newton

DRAWN BY: R2D

DATE: APRIL 2025

PROJECT NO. CG 1031-101

FIGURE 1

TDWD Distribution System Map

Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

-  **Well 1**
Well locations as dimensioned on Figure 1.
-  Well Meter associated with each well.
-  Approximate location of Reservoirs
-  Water District Boundary

WATERLINE LEGEND

- 12" WATERLINE
- 10" WATERLINE
- 8" WATERLINE
- 6" WATERLINE
- ≤ 4" WATERLINE



EXPIRES: 1/1/2027
RENEWS:

Received by OWRD

APR 17 2025

Salem, OR

0' 500' 1000'
SCALE: 1" = 500'



CASCADE
GEOTECHNICAL ENGINEERING
360.907.4162
cascadegeoengineering.com

TDWD Distribution System

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:

J. Newton

DRAWN BY:

R2D

DATE

APRIL 2025

PROJECT NO.

CG 1031-101

FIGURE

2

STATE OF OREGON

COUNTY OF DESCHUTES

ORDER APPROVING AN ADDITIONAL POINT OF APPROPRIATION

Pursuant to ORS 537.211, after notice was given and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT T-8599 submitted by

TERREBONNE DOMESTIC WATER DISTRICT
P.O. BOX 31
TERREBONNE, OREGON 97760.

The permit to be modified is Permit G-8542 with a date of priority of APRIL 4, 1979. The permit allows the use of TWO WELLS, in the DESCHUTES RIVER BASIN, for QUASI-MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 1.0 cubic foot per second, if available at the original wells; NE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 16, T 14 S, R 13 E, W.M.; WELL 1 - 1360 FEET NORTH AND 2480 FEET EAST; WELL 2 - 1300 FEET NORTH AND 2340 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 16, or its equivalent in case of rotation, measured at the wells.

The use shall conform to any reasonable rotation system ordered by the proper state officer.

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2).

Pursuant to ORS 536.075 and OAR 137-004-080 and OAR 690-01-005 you may either petition for judicial review or petition the Director for reconsideration of this order.

T-8599.PKS

Page 1 of 3 Special Order Volume 55, Page / 28 .

The authorized place of use is as follows:

SW¼ NE¼
SE¼ NE¼
SW¼ NW¼
SE¼ NW¼
SW¼
SE¼
SECTION 16

TOWNSHIP 14 SOUTH, RANGE 13 EAST, W.M.

This use may be regulated if analysis of data available discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of this right or as those quantities may be reduced.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

The applicant proposes an additional point of appropriation located:

SE¼ SW¼, SECTION 16, T 14 S, R 13 E, W.M.; 1130 FEET NORTH AND 1360 FEET EAST FROM THE SW CORNER OF SECTION 16.

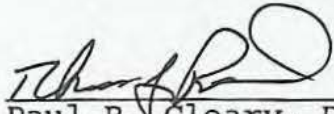
THIS CHANGE TO AN EXISTING WATER PERMIT MAY BE MADE PROVIDED THE FOLLOWING CONDITIONS ARE MET BY THE WATER USER:

1. The quantity of water diverted at the new point of appropriation (well), together with that diverted at the old points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation.
2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same aquifer as the original points of appropriation.
4. All other terms and conditions of the permit remain the same.

Permit G-8542, in the name of TERREBONNE DOMESTIC WATER DISTRICT is amended as described herein.

WITNESS the signature of the Water Resources
Director, affixed FEB 08 2001.


for Paul R. Cleary, Director

Application No. G-9190T-8599
Permit No. G 8542

STATE OF OREGON WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Ground Water APR 4 1979

WATER RESOURCES DE

I, Terrebonne Domestic Water District, Glenn Williams, Chairman
(Name of Applicant)of P.O. Box 31, Terrebonne
(Mailing Address) (City)State of Oregon, 97760 Phone No. 548-2248 do hereby
(Zip Code)

make application for a permit to appropriate the following described ground waters of the State of Oregon:

1. The development will consist of 2 wells, constructed 1936 and 1968
(Give number of wells, tile lines, infiltration galleries, etc.)
having a diameter of 8 inches and an estimated depth of 380 to 400 feet.
#1 1360 North 2480 East
2. The well or other source is to be located 2 1300 ft. North and 2340 ft. East
(N. or S.) (E. or W.)
from the Southwest corner of Section 16, T. 14 S., R. 13 E., W. M.
(Public Land Survey Corner)

(See attached map)

(If there is more than one well, each must be described)

being within the Northeast Southwest
Southwest 1/4 of the Southwest 1/4 of
Sec. 16 Tp. 14S R. 13E, W. M., in the county of Deschutes

3. Location of area to be irrigated, or place of use if use other than irrigation.

Township	Range	Section	List 1/4 1/4 of Section	List use and/or number of acres to be irrigated
14S	13E	16	SW 1/4 & SE 1/4 of NW 1/4 SW 1/4 & SE 1/4 of NE 1/4 SW 1/4 & SE 1/4	Serves 280 existing water services with a population of approx. 750 people. Ultimate population estimated at 2880 people. Total acreage within TDWD is 480 acres

4. It is estimated that 380 to 400 feet of the well will require steel casing.
(Kind)5. Depth to water table is estimated 320 Well drilled by Crawford Well Drilling
(Feet)

6. The amount of water which the applicant intends to apply to beneficial use is1.0..... cubic feet per second or450..... gallons per minute.

7. The use to which the water is to be applied is1050 water services including single-family & commercial building "Quasi-Municipal".....

8. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

N/A

9. If the location of the well, or other development work is less than one-fourth mile from a natural stream channel, give the distance to the channel and the difference in elevation between the stream bed and the ground surface at the source of development.

N/A

10.

DESCRIPTION OF WORKS

Include length and dimensions of supply ditch or pipeline, size and type of pump and motor, type of irrigation system to adequately describe the proposed distribution system.

The existing system is described in the attached report entitled "Terrebonne Domestic Water District" dated January 1978 and includes 4" & 6" pipelines, 30,000 gallon steel reservoir, small diameter distribution and service pipe, water meters, pressure tank and system, valves and accessories.

We have attached a copy of a water study prepared for the District entitled "Water System Plan" dated January 1979 for your review.

11. Construction work will begin on or before.....#1 1936
#2 1968.....

12. Construction work will be completed on or before.....#1 1936
#2 1968.....

13. The water will be completely applied to the proposed use on or before.....2020.....
Total 400 GPM by

14. If the ground water supply is supplemental to an existing supply, identify the supply and existing water right.....N/A.....

Application No. G-9190

Permit No. G 8542

A. _____ 53. _____

RECEIVED BY 2/20/196
Remarks: Water used for household purposes including irrigation.

Approximately 280 existing water connections serving 750 people in single-family and commercial structures. Anticipated service to 1050 water services or 2880 people.

Glenn Williams
Signature of Applicant
Terrebonne Domestic Water District
Glenn Williams, Chairman

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

In order to retain its priority, this application must be returned to the Water Resources Director with corrections on or before _____, 19

WITNESS my hand this _____ day of _____, 19
Water Resources Director

By _____

This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the 4th day of April, 1979, at 11:00 o'clock A.M.

Application No. G-9190

Permit No. G 8542

Permit to Appropriate the Public Waters of the State of Oregon

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

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 1.0 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from two wells..

The use to which this water is to be applied is quasi-municipal.

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed acre feet per acre for each acre irrigated during the irrigation season of each year;

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is April 4, 1979.....

Actual construction work shall begin on or before May 30, 1980..... and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19...80.....

Extended to Oct. 7, 1986

Extended to October 1, 1991, 10-1-96

EXT BCOI

Complete application of the water to the proposed use shall be made on or before October 1, 19...81.....

Extended to Oct. 7, 1986

Extended to October 1, 1991, 10-1-96

WITNESS my hand this 30th day of May 19...79.....

AMENDED by special order

v. 55

pg. 128

James E. Saxon
Water Resources Director



OREGON WATER RESOURCES DEPARTMENT
CERTIFICATE REIMBURSEMENT AUTHORITY
APPLICANT'S AGREEMENT
Contract Number: **R13138-25**

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **Terrebonne Domestic Water District**, hereafter Applicant, hereafter known together as the parties.

OWRD Information

Project Contact: Kerry Kavanagh
Reimbursement Authority
Oregon Water Resources Department

725 Summer Street NE
Salem OR 97301-1271
Phone: 503-979-3208

Email: Kerry.L.Kavanagh@water.oregon.gov

Applicant's Information

Name: Dan Bruce
Title: District Manager
Company: Terrebonne Domestic Water District

Address: PO Box 31
Terrebonne OR 97760
Phone: 541-548-2727

Email*: tdwd@bendbroadband.com

Applicant's Representative

Name: Jim Newton
Title: Representative

Address: 21145 Scottsdale Dr
Bend OR 97701
Phone: 360-907-4162

Email*: newtonjim@hotmail.com

*By providing an Email address, consent is given to receive all correspondence electronically. (Paper copies of the certificate and final order documents will also be mailed.)

- Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use**. (Application Number: **G-9190**)
- Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.
- Restrictions.** Terrebonne Domestic Water District and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.
- Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.
- Consideration.** Terrebonne Domestic Water District shall pay OWRD in advance for actual costs incurred by OWRD. Terrebonne Domestic Water District agrees to pay the full amount of **\$1831** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost. The costs stated in this Agreement do not include the statutory application processing and filing fees.
- Confidentiality.** Terrebonne Domestic Water District agrees that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.
- Indemnity.** Applicant shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47123

Received by OWRD

APR 25 2025

Salem, OR

8. **Termination.** Applicant may request to terminate this agreement only in writing at any time during the process. The Applicant agrees to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.
9. **Funds Authorized and Available.** By its execution of this Agreement, Applicants certifies that sufficient funds are authorized and available to cover the expenditures contemplated by this Agreement.
10. **Duration of Estimate.** The Estimate of Time to complete the work is no later than one hundred and twenty days (120) days once this Agreement has been fully executed and payment of the estimated cost deposited. However, this estimate is contingent on the Applicant's expeditious resolution of any deficiency and may be affected by the Department's work load. This Estimate of Time may become null and void after thirty (30) days from the date the Applicant's Agreement is mailed. If the Applicant's Agreement is not received by the Department within thirty (30) days of mailing the Agreement, the Applicant may need to re-apply for a new estimate.
11. **Completion Date.** OWRD, by the execution of this Agreement does not guarantee the completion date indicated in this Agreement. Completion date is only an estimate and may be affected by the Department's workload, issues arising from the processing of the requested services and Applicant's timely response to requests for additional information.
12. **Captions.** The captions or headings in this Agreement are for the convenience only and in no way define limit or describe the scope or intent of any provision of this Agreement.
13. **Amendment and Merger.** The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, except by written instrument signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements or representations, oral or written, not specified herein regarding this Agreement.
14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: D. Bruce
Name: Dan Bruce
Title: District Manager
Company: Terrebonne Domestic Water District
Date: 4-23-2025

For OWRD: K. Kavanagh
Name: Kerry Kavanagh
Water Right Services Division
Date: 5-2-2024

Mail signed Agreement to:

Kerry Kavanagh
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

PCA 47123

Received by OWRD

APR 25 2025

Salem, OR

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **145087**

25 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Cascade Geosengineering LLC
BY: _____

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # X 1502 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 1,831.⁰⁰

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47123 R 13138-25 \$
0413 OTHER: (IDENTIFY) Certif. copy R.A. \$ 1,831.⁰⁰

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

WELL CONSTRUCTION

0218	WELL DRILL CONSTRUCTOR	EXAM FEE \$	0219	LICENSE FEE \$
	LANDOWNER'S PERMIT		0220	\$

OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$	CARD#	
0210	MONITORING WELLS	\$	CARD#	
	OTHER (IDENTIFY) _____			

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

TREASURY

OTHER / RDX

RECEIVED

FUND _____ TITLE _____ **OVER THE COUNTER**

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ \$ _____

RECEIPT:

145087

DATED: 4-25-25 BY: Les-D Miller

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **145087**

25 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Cascade Gas Company
BY: LLC

APPLICATION	9-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # X 1502 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 1,831.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47123 R 13138-LS \$ _____
0413 OTHER: (IDENTIFY) Cascade Gas Co. R.A. \$ 1,831.00

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

WELL CONSTRUCTION

0218	WELL DRILL CONSTRUCTOR	EXAM FEE	0219	LICENSE FEE
	LANDOWNER'S PERMIT	\$	0220	\$

OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$	CARD#
0210	MONITORING WELLS	\$	CARD#
	OTHER (IDENTIFY) _____		

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

TREASURY OTHER / RDX

FUND _____ TITLE _____
OBJ. CODE _____ VENDOR # _____
DESCRIPTION _____ \$ _____

**RECEIVED
OVER THE COUNTER**

RECEIPT:

145087

DATED: 4-25-25 BY: L.D. Miller

KAVANAGH Kerry L * WRD

From: KAVANAGH Kerry L * WRD
Sent: Wednesday, April 23, 2025 12:00 PM
To: tdwd@bendbroadband.com; jim newton
Cc: KAVANAGH Kerry L * WRD
Subject: Certificate RA Estimate R13138-25 for Terrebonne Domestic Water District involving Application G-9190
Attachments: RA contract_G-9190.pdf; estimate request_G-9190.pdf; estimate receipt_G-9190.pdf

Hello,

Please find the attached estimate and agreement to review the claim of beneficial use (Claim). If the proposed agreement is acceptable to you, please return a signed copy to our office along with the payment of the estimated cost to review the claim of beneficial use.

If you have any questions, please send me an email at kerry.l.kavanagh@water.oregon.gov.

Thanks,
Kerry

Kerry Kavanagh

Certificate Reimbursement Authority Program Coordinator
Certificate Section, Water Rights Services Division
725 Summer St NE Suite A | Salem OR 97301 | Direct 503.979.3208
kerry.l.kavanagh@water.oregon.gov | <https://www.oregon.gov/OWRD>



OREGON
WATER
RESOURCES
DEPARTMENT

Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **145039**
 6 Summer St. N.E. Ste. A
 SALEM, OR 97301-4172
 (503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Cascade Geos Engineering LLC
 BY: _____

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # X 1500 OTHER: (IDENTIFY) _____

TOTAL REC'D \$ 125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47123 R13138-25 \$ _____
0413 OTHER: (IDENTIFY) Certificate RA \$ 125.00
 0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

WELL CONSTRUCTION

0218	WELL DRILL CONSTRUCTOR	EXAM FEE \$ _____	0219	LICENSE FEE \$ _____
	LANDOWNER'S PERMIT		0220	\$ _____

OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$ _____	CARD#	_____
0210	MONITORING WELLS	\$ _____	CARD#	_____

OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)	\$ _____
0231	HYDRO LICENSE FEE (FW/WRD)	\$ _____
	HYDRO APPLICATION	\$ _____

TREASURY OTHER / RDX

FUND _____ TITLE _____
 OBJ. CODE _____ VENDOR # _____
 DESCRIPTION _____ \$ _____

RECEIPT: **145039** DATED: 4-17-2025 BY: m m ill

STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIPT #

145039

5 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE #

RECEIVED FROM:

BY:

CASH:

CHECK: #

OTHER: (IDENTIFY)

☐☒

1580

☐

APPLICATION

PERMIT

TRANSFER

TOTAL REC'D

\$125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES

47123 R13138-25

\$

OTHER:

(IDENTIFY)

\$

0243 I/S Lease

0244 Muni Water Mgmt. Plan

0245 Cons. Water

4270 WRD OPERATING ACCT

MISCELLANEOUS

0407

COPY & TAPE FEES

\$

0410

RESEARCH FEES

\$

0408

MISC REVENUE: (IDENTIFY)

\$

TC162

DEPOSIT LIAB. (IDENTIFY)

\$

0240

EXTENSION OF TIME

\$

WATER RIGHTS:

EXAM FEE

RECORD FEE

0201

SURFACE WATER

\$

0202

\$

0203

GROUND WATER

\$

0204

\$

0205

TRANSFER

\$

WELL CONSTRUCTION

EXAM FEE

LICENSE FEE

0218

WELL DRILL CONSTRUCTOR

\$

0219

\$

LANDOWNER'S PERMIT

0220

\$

OTHER

(IDENTIFY)

0536 TREASURY 0437 WELL CONST. START FEE

0211

WELL CONST START FEE

\$

CARD#

0210

MONITORING WELLS

\$

CARD#

OTHER

(IDENTIFY)

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233

POWER LICENSE FEE (FW/WRD)

\$

0231

HYDRO LICENSE FEE (FW/WRD)

\$

HYDRO APPLICATION

\$

TREASURY

OTHER / RDX

RECEIVED

FUND

TITLE

OVER THE COUNTER

OBJ. CODE

VENDOR #

DESCRIPTION

\$

RECEIPT:

145039

DATED:

4-17-2025

BY:

011401100



OREGON WATER RESOURCES DEPARTMENT
CERTIFICATE REIMBURSEMENT AUTHORITY
ESTIMATE APPLICATION

ORS 536.055 authorizes the Oregon Water Resources Department to expedite or enhance regulatory processes voluntarily requested under the agreement.

The purpose of this application is to obtain estimates of the cost and time required to process a Certificate Request. A separate estimate application is required for each application and/or transfer number. There is a non-refundable application fee of \$125.00 per request.

REQUEST	TYPE	FILE NUMBER
☒	Certificate Request	Application Number G-9190 Permit Number G-8542 Transfer Number/Permit Amendment (if applicable) T-8599

	Applicant Information	Applicant's Representative/Contact
Name:	Terrebonne Domestic Water District	Jim Newton, CWRE
Address:	P.O. Box 31 Terrebonne, Oregon 97760	21145 Scottsdale DR Bend, Oregon 97701
Phone:	541-548-2727	360-907-4162
Fax:		
E-Mail Address:	tdwd@bendbroadband.com	newtonjim@hotmail.com

I certify that I (check one):

- ☒ have previously filed a Claim of Beneficial Use
☐ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of \$ 125.00, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- For a groundwater permit, a pump test or exemption request must be submitted to OWRD prior to this request.
- The fee covers reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to enter into a formal contract to pay the estimated cost in advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may delay the process and increase the cost to process my request.
- Expedited processing does not guarantee a favorable review of my request.
- Send completed Application and payment to:
Oregon Water Resources Department
Certificate Reimbursement Authority Program
725 Summer St. NE, Suite A
Salem, OR 97301-1271

I certify that I am the (check one):

Applicant ☒ Applicant's Representative ☐ Other (Please specify) _____

Name: Jim Newton, CWRE

Signature: 

OWRD USE ONLY: Reimbursement Authority Number: R13138 25



Received by OWRD

APR 25 2025

Salem, OR

Date Received (Date Stamp Here)

OWRD Over-the-Counter Submission Receipt

Applicant Name(s) & Address: Dan Bruce

PO Box 31 Terrebonne, OR 97760

Transaction Type: RA

Fees Received: \$ 1831.00

☐ Cash, ☒ Check; Check No. 1502

Name(s) on Check: Cascade Geoenengineering LLC

Thank you for your submission. Oregon Water Resources Department (Department) staff will review your submittal as soon as possible.

If your submission is determined to be complete, you will receive a receipt for the fees paid and an acknowledgement letter stating your submittal is complete.

If determined to be incomplete, your submission and the accompanying fees will be returned with an explanation of deficiencies that must be addressed in order for the submittal to be accepted.

If you have any questions, please feel free to contact the Department's Customer Service staff at 503-986-0801 or 503-986-0810.

Sincerely,

OWRD Customer Service Staff

Submission received by: Sarah Benham
(Name of OWRD staff)

Instructions for OWRD staff:

- Complete this Submission Receipt and make two (2) copies. Place one copy with the check/cash; and place the other copy with the submission (i.e., the application or other document).
- Date-stamp all pages. (NOTE: Do not stamp check.)
- Give this original Submission Receipt to the applicant.
- Record Submission Receipt information on the "RECEIVED OVER THE COUNTER" log sheet.
- Fold and put one copy of the Submission Receipt with check/cash into the Safe slot. Place the other copy of the Submission Receipt with submission (application/other document) in the top drawer of filing cabinet.

RA Mailing List for Certificate

Scheduled Mailing Date:

Application: G-9190

Permit: G-8542

Certificate: 98831

Water Right Holder:

Copies Mailed	
by:	<u>TM</u> (STAFF)
on:	<u>11.25.2025</u> (DATE)

TERREBONNE DOMESTIC WATER DISTRICT
ATTENTION: DAN BRUCE, DISTRICT MANAGER
PO BOX 31
TERREBONNE OR 97760

Copies of Final Certificate to be sent to:

1. Watermaster District 11 (include copy of map)
2. Water Availability
3. Vault
4. File

Is the Permit Holder(s) of record currently identified as a landowner of any tax lots involved as confirmed by the County records?

N/A – Quasi-municipal use

DESCHUTES County

Other persons to receive copies: (include map):

1. James B. Newton, CWRE, 21145 Scottsdale Dr, Bend OR 97701
2. Central Oregon Irrigation District, 1055 SW Lake Ct, Redmond OR 97756



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

DATE MAILED: NOV 25 2025

NOTICE OF CERTIFICATE ISSUANCE

The attached certificate confirms the water right established under the terms of a permit issued by this Department: The water right is now appurtenant to the specific place where the use was established as described by the certificate. The water right is limited to a specific amount of water, but not more than can be beneficially used for the purposes stated within the certificate.

The certificate is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

Oregon law does not allow the Director to reissue a certificate because of a change in the ownership of the appurtenant place of use. The water must be controlled and not wasted. To change the location of the point of diversion, the character of use, or the location of use requires the advance approval of the Water Resources Director.

If any portion of this water right is not used for five or more consecutive years that portion of the right may be subject to forfeiture according to ORS 540.610. Land enrolled in-a Federal Reserve Program is not subject to forfeiture during the period of enrollment. Other exceptions to forfeiture are explained in ORS 540.610.

If you have any questions, please contact Kerry Kavanagh at 503-979-3208.

STATE OF OREGON
COUNTY OF DESCHUTES
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

TERREBONNE DOMESTIC WATER DISTRICT
PO BOX 31
TERREBONNE OR 97760

confirms the right to the use of water perfected under the terms of Permit G-8542. The amount of water used to which this right is entitled is limited to the amount used beneficially, and shall not exceed the amount specified, or its equivalent in the case of rotation, measured at the point of diversion from the source. The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-9190

SOURCE OF WATER: WELL 1, WELL 2, AND WELL 3 IN DESCHUTES RIVER BASIN

PURPOSE or USE: QUASI-MUNICIPAL USE

MAXIMUM RATE: 1.0 CUBIC FOOT PER SECOND (CFS), FURTHER LIMITED TO 0.27 CFS FROM WELL 1, 0.61 CFS FROM WELL 2, AND 1.0 CFS FROM WELL 3 NOT TO EXCEED A CUMULATIVE TOTAL OF 1.0 CFS FROM THE WELLS IN ANY COMBINATION

DATE OF PRIORITY: APRIL 4, 1979

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
14 S	13 E	WM	16	NE SW	WELL 1 (ORIGINAL) - 1360 FEET NORTH AND 2480 FEET EAST FROM SW CORNER, SECTION 16
14 S	13 E	WM	16	SE SW	WELL 2 (ORIGINAL) - 1300 FEET NORTH AND 2340 FEET EAST FROM SW CORNER, SECTION 16
14 S	13 E	WM	16	SE SW	WELL 3 (ADDITIONAL) - 1130 FEET NORTH AND 1360 FEET EAST FROM SW CORNER, SECTION 16

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484 and ORS 536.075. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 183.484, ORS 536.075 and OAR 137-004-0080, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate within three months after issuance of the certificate.

A description of the place of use is as follows:

QUASI-MUNICIPAL USE				
Twp	Rng	Mer	Sec	Q-Q
14 S	13 E	WM	16	SW NE
14 S	13 E	WM	16	SE NE
14 S	13 E	WM	16	SW NW
14 S	13 E	WM	16	SE NW
14 S	13 E	WM	16	NE SW
14 S	13 E	WM	16	NW SW
14 S	13 E	WM	16	SW SW
14 S	13 E	WM	16	SE SW
14 S	13 E	WM	16	NE SE
14 S	13 E	WM	16	NW SE
14 S	13 E	WM	16	SW SE
14 S	13 E	WM	16	SE SE

The quantity of water diverted at the new point of appropriation (Well 3), together with that diverted at the old points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation.

The water user shall maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted and shall keep a complete record of the amount of ground water withdrawn.

Water shall be acquired from the same aquifer as the original points of appropriation.

The well shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

Water may be applied to lands which are not specifically described above, provide the holder of this right complies with ORS 540.510(3).

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

Issued NOV 25 2025.



Katherine Ratcliffe
Water Right Services Division Administrator, for
Ivan Gall, Director
Oregon Water Resources Department

POA LOCATION MAP

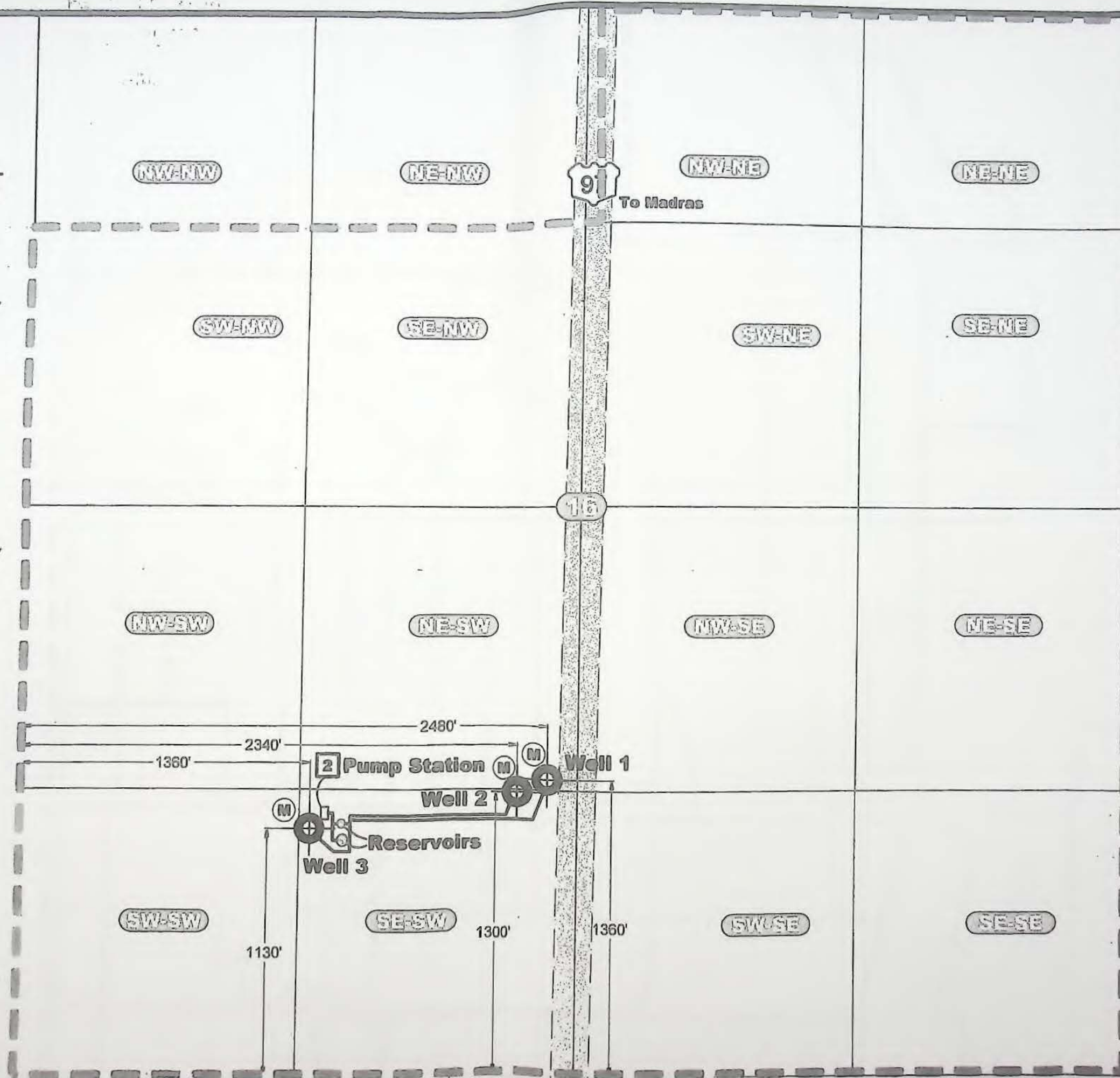
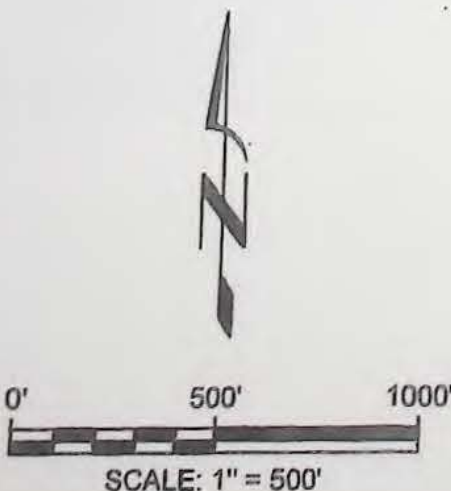
Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

-  **Well 1**
Well locations as dimensioned
-  Well Meter associated with each well.
-  Approximate location of Reservoirs
-  Water District Boundary



POA Location Map

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:
J. Newton

DRAWN BY:
R2D

DATE:
APRIL 2025

PROJECT NO.
CG 1031-101

FIGURE
1

TDWD Distribution System Map

Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

-  **Well 1**
Well locations as dimensioned on Figure 1.
-  Well Meter associated with each well.
-  Approximate location of Reservoirs
-  Water District Boundary

WATERLINE LEGEND

-  12" WATERLINE
-  10" WATERLINE
-  8" WATERLINE
-  6" WATERLINE
-  <= 4" WATERLINE



DATE: 1/1/2027
REVIEWED:

Received by: ONRD

APR 17 2025

Salem, OR

0' 500' 1000'
SCALE: 1" = 500'



TDWD Distribution System

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

CASCADE
GEOTECHNICAL ENGINEERING
360.907.4162
cascadengeotech.com

DESIGNED BY:
J. Newton

DRAWN BY:
R2D

DATE:
APRIL 2025

PROJECT NO.
CG 1031-101

FIGURE
2

POA LOCATION MAP

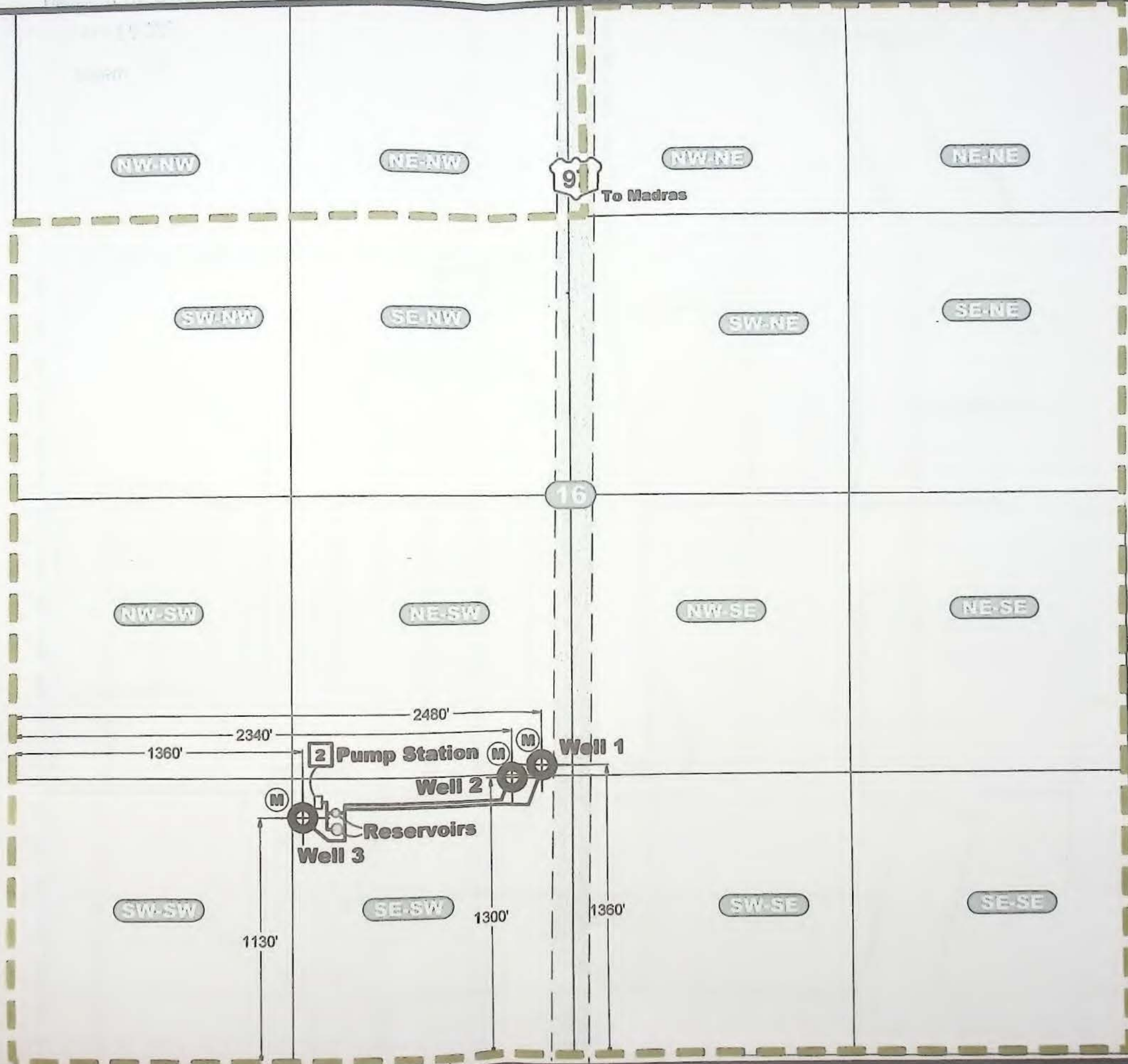
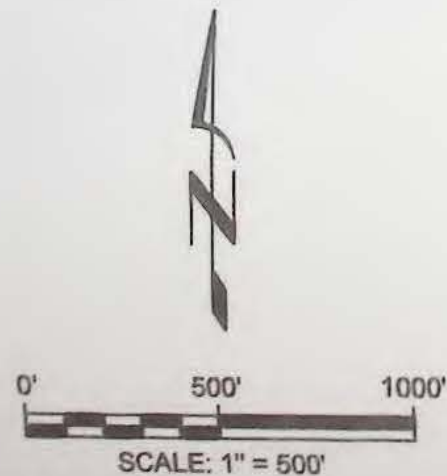
Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

- Well 1**
Well locations as dimensioned
- Well Meter associated with each well.
- Approximate location of Reservoirs
- Water District Boundary



POA Location Map

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:
J. Newton

DRAWN BY:
R2D

DATE:
APRIL 2025

PROJECT NO.
CG 1031-101

FIGURE
1

TDWD Distribution System Map

Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

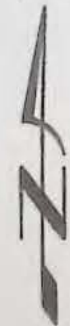
- Well 1**
Well locations as dimensioned on Figure 1.
- M** Well Meter associated with each well.
- Approximate location of Reservoirs
- Water District Boundary

WATERLINE LEGEND

- 12" WATERLINE
- 10" WATERLINE
- 8" WATERLINE
- 6" WATERLINE
- <= 4" WATERLINE



EXPIRES: 1/1/2027



Received by OWRD

APR 17 2025

Salem, OR



SCALE: 1" = 500'



360.907.1162
cascadengeotech.com

TDWD Distribution System

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:
J. Newton

DRAWN BY:

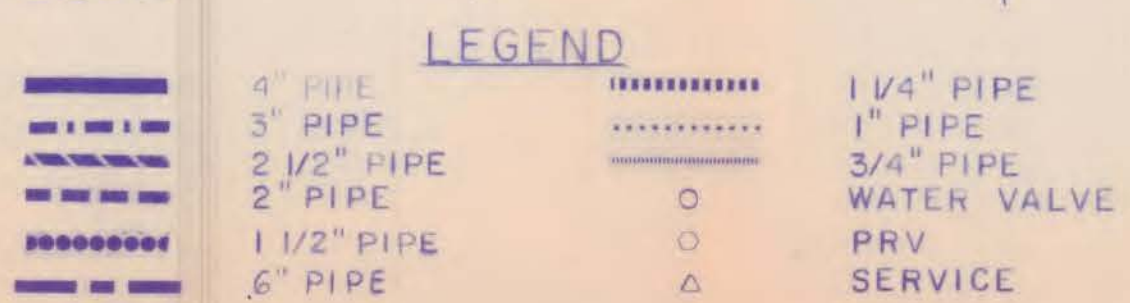
R2D

DATE: APRIL 2025

PROJECT NO. CG 1031-101

FIGURE 2

RECEIVED
APR 4 1979
WATER RESOURCES DEPT.
SALEM, OREGON



SCALE 1" = 200	DATE REVISED FEBRUARY, 1979	JOB 77-18.0
DSN	CONSULTANTS NORTHWEST	SHEET NO
DRN MDH	PO BOX 759, 907 W. HIGHLAND	
	REDMOND, OREGON 97756	
CKD AHK	PHONE 548-6136	OF 1

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #:G-9190	WRD Reviewer:Corie
Transfer #:	
Date Received:4/17/25	
CWRE Name:James Newton	
Priority Date (s):4/4/1979	

Fees Required:

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

☐ YES ☐ NO A fee of \$230 must accompany this form for any transfers including a water right with a priority date of July 9, 1987, or later.

Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Fill in App
or Transfer
Number

Map Review:

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

Report Review:

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

MONEY SLIP	
DATE:	RECEIPT #:
RECEIVED FROM:	APPLICATION ACCOUNT TRANSFER
CASH ☐ CHECK # ☐ OTHER (IDENTIFY) ☐	TOTAL RECEIVED \$
1003 TREASURY 4170 SSCC CASH ACCT.	
0407 COMES OTHER (IDENTIFY)	\$
0243 Instream Lease 0244 Multi-User Right Prop. 0245 Cons. Water	
1003 TREASURY 4270 WIND OPERATING ACCT.	
MISCELLANEOUS 4611	\$
0407 COPY & TIME FEES	\$
0408 RESEARCH FEES	\$
0408 SSCC REVENUE (IDENTIFY)	\$
TC103 DEPOSIT LNS (IDENTIFY)	\$
0246 EXTENSION OF TIME	\$
WATER RIGHTS EXAM FEE	RECORD FEE
0201 SURFACE WATER \$	0202 \$
0203 GROUND WATER \$	0204 \$
0205 TRANSFER \$	
WELL CONSTRUCTION EXAM FEE	RECORD FEE
0210 WELL DRILL CONSTRUCTION \$	0210 \$
LANDOWNERS PERMIT \$	0220 \$
0202 OTHER (IDENTIFY) COBU	\$222.00
1003 TREASURY 0407 HYDROELECTRIC	
0220 POWER LICENSE FEE (HYDRO) \$	0221 \$
0221 HYDRO LICENSE FEE (HYDRO) \$	
HYDRO APPLICATION \$	
SPECIAL INSTRUCTIONS:	

☐ RETURN TO APPLICANT – LETTER ATTACHED

Groundwater File Review:

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



Oregon

Tina Kotek, Governor

Water Resources Department

725 Summer St NE, Suite A

Salem, OR 97301

(503) 986-0900

www.oregon.gov/owrd

April 17, 2025

Terrebonne Domestic Water District

PO Box 31

Terrebonne, OR 97760

On April 17, 2025, the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file:

Application G-9190

Permit G-8542

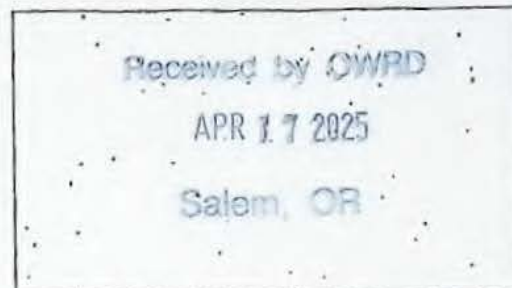
The COBU included a report and map. In the future the Department will review your submittal. At that time we will review these items and provide a final certificate, proposed certificate, or a request for additional information.

If you are interested in having your COBU reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at: <https://www.oregon.gov/owrd/programs/WaterRights/RA/Pages/default.aspx>

Customer Service phone: (503) 986-0900

If you sell the property, please contact the Department, or have the new owners contact the Department about the need to file an assignment.

Cc: file G-9190



Date Received (Date Stamp Here)

OWRD Over-the-Counter Submission Receipt

Applicant Name(s) & Address: Terrebonne Domestic Water District
P.O. Box 31, Terrebonne, OR 97760

Transaction Type: RA 3 Claim (no fee for claim)

Fees Received: \$ 125.00

☐ Cash

☒ Check

Check No.

1500

Name(s) on Check:

Cascade Engineering LLC

Thank you for your submission. Oregon Water Resources Department (Department) staff will review your submittal as soon as possible.

If your submission is determined to be complete, you will receive a receipt for the fees paid and an acknowledgement letter stating your submittal is complete.

If determined to be incomplete, your submission and the accompanying fees will be returned with an explanation of deficiencies that must be addressed in order for the submittal to be accepted.

If you have any questions, please feel free to contact the Department's Customer Service staff at 503-986-0801 or 503-986-0810.

Sincerely,

OWRD Customer Service Staff

Submission received by:

Cone Larrien

(Name of OWRD staff)

Instructions for OWRD staff:

- Complete this Submission Receipt and make two (2) copies. Place one copy with the check/cash; and place the other copy with the submission (i.e., the application or other document).
- Date-stamp all pages. (NOTE: Do not stamp check.)
- Give this original Submission Receipt to the applicant.
- Record Submission Receipt information on the "RECEIVED OVER THE COUNTER" log sheet.
- Fold and put one copy of the Submission Receipt with check/cash into the Safe slot. Place the other copy of the Submission Receipt with submission (application/other document) in the top drawer of filing cabinet.

**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

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

A separate form shall be completed for each permit.

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

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

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>

Received by OWRD

APR 17 2025

Salem, OR

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
G-9190	G-8542	T-8599

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Terrebonne Domestic Water District		PHONE NO. 541 548-2727	ADDITIONAL CONTACT NO.
ADDRESS PO Box 31			
CITY Terrebonne	STATE OR	ZIP 97760	E-MAIL tdwd@bendbroadband.com

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

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

PERMIT HOLDER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

ADDITIONAL PERMIT HOLDER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection:

April 1, 2021

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Dan Bruce	April 1, 2021	TDWD District Manager

6. County:

Deschutes

7. If any property described in the place of use of the permit 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

Received by OWRD

APR 17 2025

Salem, OR

WR

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.



Received by OWRD
APR 17 2025
Salem, OR

CWRE NAME <i>James B. Newton</i>		PHONE NO. <i>360-907-4162</i>	ADDITIONAL CONTACT NO.
ADDRESS <i>21145 Scottsdale Dr</i>			
CITY <i>Bend</i>	STATE <i>OR</i>	ZIP <i>97701</i>	E-MAIL <i>newtonjim@hotmail.com</i>

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
<i>D.B.</i>	<i>Dan Bruce</i>	<i>Dist. Manager</i>	<i>4-15-2025</i>

SECTION 3
CLAIM DESCRIPTION

Received by OWRD

APR 17 2025

Salem, OR

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 WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
POA 1	DESC 2377	N/A
POA 2	DESC 2387	N/A
POA 3	DESC 52862 & DESC 53589	L-32860

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	TRIBUTARY
POA 1 & POA 2	Deschutes River Basin (in T-8599 FO)	
POA 3	Deschutes River Basin (implied in T-8599 FO)	

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)
POA 1	Quasi Muni	N/A	2001 Water Year	98.42 AF
POA 2	Quasi Muni	N/A	2001 Water Year	26.04 AF
POA 3	Quasi Muni	N/A	2001 Water Year	12.74 AF
Total Quantity of Water Used				137.20 AF

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:

Water was pumped from each of the three wells into the existing reservoirs, and then into the water 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. **NO**

(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.")

N/A

6. Claim Summary:

POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
POA 1	1.0 cfs total for all 3 wells	0.34 cfs	0.27 cfs	Quasi Muni	N/A	N/A
POA 2		0.36 cfs	N/A	Quasi Muni	N/A	N/A
POA 3		1.54 cfs	1.04 cfs	Quasi Muni	N/A	N/A

APR 17 2025

Salem, OR

SECTION 4 SYSTEM DESCRIPTION

Are there multiple POAs?

YES

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

POA 1

A. Place of Use

1. Is the right for municipal use?

Quasi Muni Use

YES

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES

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

Well #1 has a small (3/4") access port on the south side of the line-shaft turbine sole plate to access with a well probe.
--

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

See Well Log DESC 2377

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

C. Groundwater Source Information (Sump)

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

NO

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 and apply the water from the point of appropriation to the place of use.

1. Is a pump used?

YES

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Unknown	Unknown	Unknown	Line Shaft Turbine	Unknown	Unknown

3. Motor Information:

MANUFACTURER	HORSEPOWER
Not Known	15

4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
15	20	256 ft	0 ft	0.34 cfs

5. Provide pump calculations:

WRD Calculator: (hp)(efficiency) / (lift + head) = capacity in cfs

Efficiency of Turbine = 7.04; HP = 15; Lift = 256 ft; PSI = 20

Calculated Results:

(hp)(efficiency) = 105.6

Head based on psi = 50.8

Total dynamic head (head + lift) = 306.8

Pump Capacity = 0.34 cfs

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)
N/A	N/A	14 minutes	0.27

Note: The pump capacity was measured in August of 2011, and was reported in a memo found in TDWD files. Pumps and other well features had reportedly not changed since the well was reconditioned in 1981, therefore, this measurement data should be acceptable to use in this COBU report.

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

7. Is the distribution system piped?

YES

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Varies from 12" to less than 4"	See attached Fig 2		Buried

9. Lateral or Handline Information: N/A**10. Sprinkler Information: N/A****11. Drip Emitter Information: N/A****12. Drip Tape Information: N/A****13. Pivot Information: N/A**

Received by OWRD

APR 17 2025

Salem, OR

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

YES

If "YES" is it a:

Storage Tank

Bulge in System / Reservoir

YES

NO

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Bolted Steel	250,000	Above-ground
Welded Steel	500,000	Above-ground

F. Gravity Flow Pipe

1. Does the system involve a gravity flow pipe?

NO

G. 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

H. Additional notes or comments related to the system:

SECTION 4

SYSTEM DESCRIPTION

Are there multiple POAs?

YES

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

POA 2

A. Place of Use

1. Is the right for municipal use?

Quasi Muni Use

YES

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES

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

Small (~3/4") access port in the top of the well head to allow access with manual well probe.

3. If well logs are not available, provide as much of the following information as possible:
See Well Log Desc 2387

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

C. Groundwater Source Information (Sump)

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

NO

D. Diversion and Delivery System Information

Received by OWRD

APR 17 2025

Salem, OR

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 appropriation to the place of use.

1. Is a pump used?

YES

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Unknown	Unknown	Unknown	Submersible Turbine Pump	Unknown	Unknown

3. Motor Information:

MANUFACTURER	HORSEPOWER
Unknown	25 Hp based on notes in TDWD files

4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level during pumping	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
25	20	240 ft	0 ft	0.61 cfs

5. Provide pump calculations:

WRD Calculator: $(hp)(\text{efficiency}) / (\text{lift} + \text{head}) = \text{capacity in cfs}$

Efficiency of Turbine = 7.04; HP = 25; Lift = 240 ft; PSI = 20

Calculated Results:

$(hp)(\text{efficiency}) = 176$

Head based on psi = 50.8

Total dynamic head (head + lift) = 290.8

Pump Capacity = 0.61 cfs

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)
N/A	N/A	N/A	N/A

Note: The pump in Well 2 failed sometime in late 2001; Well 2 is now listed as an emergency backup as needed. Pump capacity measurements for 2000 and 2001 were not found in TDWD files. However, based on water use reports filed yearly with WRD, Well 2 was used regularly prior to pump failure, and produced a larger volume of water than Well 1 (TDWD files note Well 2 had a 25 Hp motor/pump).

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

7. Is the distribution system piped?

YES

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Varies from 12" to less than 4"	See attached Fig 2	C-900 & PVC	Buried

9. Lateral or Handline Information: N/A

10. Sprinkler Information: N/A

11. Drip Emitter Information: N/A

Received by OWRD

APR 17 2025

Salem, OR

APR 17 2025

Salem, OR

12. Drip Tape Information: N/A

13. Pivot Information: N/A

E. Storage

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

YES

If "YES" is it a:

Storage Tank

YES

Bulge in System / Reservoir

NO

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Bolted Steel	250,000	Above-ground
Welded Steel	500,000	Above-ground

F. Gravity Flow Pipe

1. Does the system involve a gravity flow pipe?

NO

G. 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

H. Additional notes or comments related to the system:**SECTION 4****SYSTEM DESCRIPTION**

Are there multiple POAs?

YES

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

POA 3

A. Place of Use

1. Is the right for municipal use?

Quasi Muni Use

YES

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES

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

Well head cap has a 1" access port with PVC tubes for access with a well probe.

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

See Well Logs DESC 52862 & DESC 53589

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

C. Groundwater Source Information (Sump)

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

NO

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 and apply the water from the point of appropriation to the place of use.

1. Is a pump used?

YES

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Crown	8M-700	N/A	Submersible	Unknown	Unknown

3. Motor Information:

MANUFACTURER	HORSEPOWER
Unknown	75

4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
75	15	304 ft	0 ft	1.54 cfs

5. Provide pump calculations:

WRD Calculator: $(hp)(\text{efficiency}) / (\text{lift} + \text{head}) = \text{capacity in cfs}$

Efficiency of Submersible = 7.04; HP = 75; Lift = 304 ft; PSI = 15

Calculated Results:

$(hp)(\text{efficiency}) = 528$

Head based on psi = 38.1

Total dynamic head (head + lift) = 342.1

Pump Capacity = 1.54 cfs

Received by OWRD

APR 17 2025

Salem, OR

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 recorded	Not recorded	15 minutes	1.04 (VFD in use to throttle well flow rate)

Note: The pump capacity was measured in August of 2011, and was reported in a memo found in TDWD files. Pumps and other well features had reportedly not changed since the well was installed in 2000, therefore, this measurement data should be acceptable to use in this COBU report.

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

7. Is the distribution system piped? YES

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Varies from 12" to less than 4"	See attached Fig 2	C-900 & PVC	Buried

9. Lateral or Handline Information: N/A

10. Sprinkler Information: N/A

11. Drip Emitter Information: N/A

12. Drip Tape Information: N/A

13. Pivot Information: N/A

E. Storage

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

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

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Bolted Steel	250,000	Above-ground
Welded Steel	500,000	Above-ground

F. Gravity Flow Pipe

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

Received by OWRD
APR 17 2025
Salem, OR

G. 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

H. Additional notes or comments related to the system:

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 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	May 30, 1979		
BEGIN CONSTRUCTION (A)	May 30, 1980	March 9, 1968	POA 2 (DESC 2387) was begun on Marc 9, 1968.
COMPLETE CONSTRUCTION (B)	Oct 1, 1980, extended to Oct 1, 2001	July 2001	Well #1 was originally constructed in 1937 and reconditioned in 1981 (DESC 2377). Well #3 (DESC 52862/53589) was connected to the district's system and was pumping water in July 2001 (see attached Water Use Report from WRD's website)
COMPLETE APPLICATION OF WATER (C)	Oct 1, 1980, extended to Oct 1, 2001	July 2001	All 3 wells (#1, #2, and #3) were connected to the district's system and pumping water in 2001 (see attached Water Use Report from WRDs website)

* 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)?

Received by OWRD
APR 17 2025
Salem, OR
YES

a. Did the Extension Final Order require the submittal of Progress Reports? NO

3. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? NO

4. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? NO

5. Pump Test:

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

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

b. Has a meter been installed? YES

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
POA 1	Sonus	1616160 (stamped on meter)	working	57080000 gallons	Prior to 2001
POA 2	Sparling	130431 (stamped on meter)	Working when in use	471282 cubic feet	Prior to 2001
POA 3	Sensus	Not visible	Working	Not recorded at time of site visit	2000

7. Recording and reporting conditions:

a. Is the water user required to report the water use to the Department? NO

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

a. Were there special well construction standards? NO

b. Was submittal of a ground water monitoring plan required? NO

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

d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? NO

e. Other conditions? YES

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

e. For POA #3 "The quantity of water diverted at the new point of appropriation (well), together with that diverted at the oil points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation." TDWD periodically reviews the metered usage at each of the permitted POAs in order to comply with this condition.

Received by OWRD

APR 17 2025

SECTION 6

ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Well Logs	DESC 2377, DESC 2387, DESC 52862, & DESC 53589
Water Use Report	From WRD website, showing water years 1995 through 2001
WRIS Cover Page Screen Shot	From WRD WRIS site, showing C date for permit
POA Location Map – Figure 1	Provides Permitted Well Locations and TDWD Boundary
TDWD Distribution System – Fig 2	Provides TDWD Boundary and Distribution System Map
Map Scale Variance Approval	Email with Gerald Clark (OWRD Certificate Section) 4/14/2025
Meter Approval Notice	Email with Jeremy Giffin (OWRD Watermaster) 4/11/2025

SECTION 7

CLAIM OF BENEFICIAL USE MAP

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

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

The COBU maps were taken from the TDWD system and water distribution service area, with the wells located by handheld GPS, map locations included in the WMCP/distribution system map and aerial photos; since Wells 1 and 2 were long established well locations, these sites were also accurate to the original permit map. Source for aerial photos are Google Earth Pro with suitable resolution dating as far back as 2013; prior years back to 2000 were too grainy for suitable comparison of detailed well locations, however, the storage tanks, office and pump station were clearly visible.

The TDWD wells pump from the wells directly in the two storage tanks then from the tanks water is circulated throughout the TDWD quasi-municipal water distribution system shown on the attached Figure 2.

Received by OWRD
APR 17 2025
Salem, OR

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) **Received Approval of a Map Scale Variance Request**
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☐ N/A 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
- ☒ 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)
- ☐ N/A Tax lot boundaries and numbers
- ☐ N/A 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

Received by OWRD

APR 17 2025

Salem, OR

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. 14s-13e-16cd

State Permit No. Reconditioned

(1) OWNER:

Name Terrebonne Water District
Address Terrebonne, Ore. 97760

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☒ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
☐ Jetted ☐
☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
10" Diam. from 2 ft. to -25 ft. Gage .250
8" Diam. from 1 ft. to -377 ft. Gage .188
" Diam. from " ft. to " ft. Gage "

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used factory

Size of perforations 1/4 in. by 4 in.
160 perforations from -317 ft. to -337 ft.
160 perforations from -357 ft. to -377 ft.
perforations from " ft. to " ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "
" " " " " "
Pump test 15 gal./min. with NO ft. drawdown after 1 hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used cement
Well sealed from land surface to -25 ft.
Diameter of well bore to bottom of seal 15 in.
Diameter of well bore below seal 10 in.
Number of sacks of cement used in well seal 12 sacks
How was cement grout placed? pressure grout

Was a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Deschutes Driller's well number _____
SE 1/4 SW 1/4 Section 16 T. 14S R. 13E W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 258 ft.
Static level 256 ft. below land surface. Date 1-22-81
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 0

Depth drilled 378 ft. Depth of completed well 378 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
brown sandy soil	0	2	
brown coarse sandstone	2	8	
hard grey rock	8	60	
soft brown sandstone	60	170	
hard broken rock	170	258	256
med. sand & gravel W.B.	258	269	
brown soft sandstone	269	318	
coarse brown sand & gravel	318	378	
WB			

RECEIVED

JAN 28 1981

WATER RESOURCES DEPT
SALEM, OREGON

Work started 1-16 1981 Completed 1-22 1981

Date well drilling machine moved off of well 1-22 1981

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] Dele Davis Date 1-26 1981
(Drilling Machine Operator)

Drilling Machine Operator's License No. 934

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name Crawford Well Drilling, Inc.
(Person, firm or corporation) (Type or print)

Address 1245 Lower Bridge Terrebonne, Ore.

[Signed] Tony K. Crawford
(Water Well Contractor)

Contractor's License No. 570 Date 1-26 1981

NOTICE TO WATER WELL CONTRACTOR

The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

DESC 2387

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No.

14/13-16 L

State Permit No.

STATE ENGINEER

(1) OWNER:

Name Terrebonne Domestic Water District
Address Terrebonne Ore

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
" Diam. from 2 ft. to 381 ft. Gage 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Torch

Size of perforations 1/4 in. by 15 in.
196 perforations from 239 ft. to 381 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WATER LEVEL: Completed well.

Static level 240 ft. below land surface Date 4-8-68
Artesian pressure _____ lbs. per square inch Date _____

(9) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " " " "

" " " " " "

" " " " " "

Approximately 30 gal./min. with 0 ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water 59 Was a chemical analysis made? ☐ Yes ☒ No

(10) CONSTRUCTION:

Well seal—Material used Cement-bentonite drill cuttings

Depth of seal 40 feet _____ ft.

Diameter of well bore to bottom of seal _____ in.

Were any loose strata cemented off? ☐ Yes ☒ No Depth _____

Was a drive shoe used? ☐ Yes ☒ No

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(11) LOCATION OF WELL:

County Deschutes Driller's well number
NE 1/4 SW 1/4 Section 16 T.14.5 R.13 E W.M.

Bearing and distance from section or subdivision corner
Between block 75 and 88
in Terrebonne

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled 381 ft. Depth of completed well 381 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change
in position of Static Water Level as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
BROWN SANDY SOIL	0	1	
GREY LAVA (HARD)	1	27	
BROWN SANDSTONE (HARD)	27	46	
HARD TAN ROCK	46	52	
BROWN SOFT SANDSTONE	52	95	
GREY SANDSTONE (COARSE)	95	160	
GREY HARD ROCK	160	210	
GREY HARD SANDSTONE	210	240	
COURSE SAND & GRAVEL	240	250	
FINE SAND & GRAVEL	250	257	250
(WATER BEARING)			
GREY HARD ROCK	257	275	
BROWN HARD SANDSTONE	275	305	
TAN SOFT SANDSTONE	305	317	
COURSE BROWN SAND	317	375	240
(WATER BEARING)			
BROWN SANDSTONE	375	381	

APR 17 2025

Salem, OR

Work started 3-9 1968 Completed 4-8 1968

Date well drilling machine moved off of well 4-8 1968

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Dale Crawford Date 4-8, 1968
(Drilling Machine Operator)

Drilling Machine Operator's License No. 440

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME GRAVEFORD WELL DRILLING
(Person, firm or corporation) (Type or print)

Address Box 17 TERREBONNE ORE

[Signed] Dale Crawford
(Water Well Contractor)

Contractor's License No. 451 Date 4-8, 1968

14/13-16 L.

NWKB

~~Jefferson G. Deschutes G.~~

OREGON STATE BOARD OF HEALTH

RECEIVED
NOV 26 1965Mineral Content of Water**STATE ENGINEER**
SALEM OREGON

Name of Water Supply Terrebonne
 Source City Well
 Sampling Point Well
 Collected By Bartholomew Date 6-15-65
 Analysis By A. W. Hase Date 11-12-65
 Laboratory Number 0952

	<u>Mg/L</u>		<u>Mg/L</u>
Color	<u>2</u>	Conductance (mc mho/cm)	<u>335</u>
Turbidity	<u>5.5</u>	Chlorides	<u>8.04</u>
Solids, Total	<u>227</u>	Sodium	<u>23.8</u>
Solids, Volatile	<u>110</u>	Potassium	<u>3.5</u>
Carbon Dioxide	<u>3.0</u>	Fluoride	<u>0.17</u>
pH	<u>8.0</u>	Phosphates	<u>0.120</u>
Alkalinity, Total as CaCO ₃	<u>150</u>	Sulfates	<u>15.0</u>
Hardness as CaCO ₃	<u>107</u>	Silicon	<u>40</u>
Calcium	<u>18.7</u>	Aluminum	<u>< 0.02</u>
Magnesium	<u>14.6</u>	Nitrogen, Ammonia	<u>0.14</u>
Iron	<u>0.01</u>	Nitrogen, Nitrite	<u>0.02</u>
Manganese	<u>< 0.05</u>	Nitrogen, Nitrate	<u>1.56</u>
Arsenic			

REMARKS

Received by OWRD

APR 17 2025

WSSP-10, 6/62

Salem, OR

**Oregon State Board of Health
SANITARY ENGINEERING LABORATORY**

REPORT OF MINERAL ANALYSIS OF WATER

Location of source Terrebonne WD Description of source Deep well
Analysis by MHP Date 5/23/55 Collected by HWM Date 2/11/55

No well record
in our files

RESULTS

	Parts per million
Turbidity	1
Color: Apparent	2
Odor: Hot	Cold
Total Solids	230
Loss on Ignition	120
Silicon (SiO ₂)	47
Chloride (Cl)	9.6
Sulfate (SO ₄)	22
Calcium (Ca)	13
Magnesium (Mg)	0
Aluminum (Al)	0
Orthophosphates (PO ₄)	0.2
Metaphosphates (PO ₃) ₆	0
Alkalinity (as CaCO ₃): Carbonate	0
Bicarbonate	137
Hardness (as CaCO ₃)	120
Sodium and Potassium (as Na)	28
Iron (Fe)	.05
Manganese (Mn)	0
Fluoride (F)	.1
Carbon Dioxide (CO ₂)	4.0
pH	7.8
Remarks	Potassium 2.5

U.S.S. WSP 637-D
306
14/13-16
Basehats G
392 ft Deep
302 W
Elev. 2800 ft

RECEIVED
JUN 28 1965
STATE ENGINEER
SALEM, OREGON

Received by CWRP
APR 1 2021

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 637.785)
Instructions for completing this report are on the last page of this form

RECEIVED
DESC 53589
JAN 09 2001

WELL ID # 32860
(START CARD) # 126689

(1) OWNER:

Name **Terebonne Domestic Water District**
Address **P.O. Box 31**
City **Terebonne** State **OR** Zip **97760**

(2) TYPE OF WORK:

☐ New Well ☐ Deepening ☒ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:

☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☒ Yes ☐ No Depth of Completed Well **590** ft
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Amount	
Diameter	From	To	Material	From	To	sacks or pounds	
15.5	0	326	Cement	0	326	308 sacks	
12.25	326	590					

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☐ Other

Backfill placed from _____ ft to _____ ft Material _____
Gravel placed from _____ ft to _____ ft Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	14in	+1	294	.250	☒	☐	☒	☐
	10in	+1	415	.250	☒	☐	☒	☐
	10in	475	545	.250	☒	☐	☒	☐
Liner:					☐	☐	☐	☐

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

		Method		Material				
		Type						
		☐ Perforations						
		☒ Screens	Type 304		Stainless			
From	To	Slot size	Number	Diameter	Telc/pipe size	Casing	Liner	
415	475	.060		10in	pipe	☒	☐	
545	590	.060		10in	pipe	☒	☐	

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min **500** Drawdown **4.5** Drill stem at **368** Time **54 hr.**

Temperature of Water **56** Depth Artesian Flow found _____

Was a water analysis done? ☒ Yes By whom **Coffey Labs**

Did any strata contain water not suitable for intended use? ☒ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata: **294-301**

LOCATION OF WELL by legal description:

County **Deschutes** Latitude _____ Longitude _____
Township **14S** N or S. Range **13E** E or W. of WM. _____
Section **16CD** SE 1/4 SW 1/4
Tax lot **800** Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) **8300 SW 5th St., Terebonne, OR**

(10) STATIC WATER LEVEL:

ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL
294	301	10-20	243
352	428	75-100	304
428	590	1000+	304

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
Sandy Top Soil & Broken Rock	0	2	
Brown Lava	2	6	
Blue Gray Basalt	6	39	
Red Cinder Rock	39	56	
Brown & Red Cinders	56	78	
Tan Tufted Ash	78	90	
Brown & Red Cinders	90	110	
Black Cinders & Tufted Ash	110	171	
Blue Gray Basalt	171	220	
Hard Black & Gray Basalt	220	294	
Large Red Cinders & Black Sand WB	294	301	243
Broken Gray Lava	301	319	243
Hard Gray Basalt	319	352	243
Brown Cinder Rock & Black Sand WB	352	377	304
Broken Gray Lava	377	402	304
Gray & Brown Lava	402	428	304
Brown & Red Cinders, Brn. Sand WB	428	453	304
Black & Brown Lava Rock WB	453	468	304
Red Cinders & Ash WB	468	474	304
Brown Cinders & Ash	474	494	304
Brown Lava	494	528	304
Red Cinder & Pumice Chunks WB	528	545	304

Continued on next page

Date started **3/23/00** Completed **11/1/00**

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ WWC Number _____
Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed **Robert Buckner** WWC Number **1385**
Date **1/3/01**

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

Received by OWRD

APR 17 2025

Salem, OR

(1) OWNER: Well Number: 3
Name Terebonne Domestic Water District
Address P.O. Box 31
City Terebonne State OR Zip 97760

(2) TYPE OF WORK:
☐ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well _____ ft.
Explosives used ☐ Yes ☐ No Type _____ Amount _____

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks or pounds	

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:
Casing: Diameter From To Gauge Steel Plastic Welded Threaded
Liner: _____
Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
☐ Perforations Method _____
☐ Screens Type _____ Material _____
From To Slot size Number Diameter Tele/pipa size Casing Liner

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

Temperature of Water _____ Depth Artesian Flow found _____
Was a water analysis done? ☐ Yes By whom _____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Deschutes Latitude _____ Longitude _____
Township 14S N or S. Range 13E E or W. of WM
Section 16CD SE 1/4 SW 1/4
Tax lot 900 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 8300 SW 5th St.
Terebonne, OR

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG: Ground elevation _____

Material	From	To	SWL
Cinder & Pumice Ash & Blk.	545		
Cinders WB		582	304
Cinder & Pumice w brkn. basalt WB	582	590	304

RECEIVED

JAN 09 2001

WATER RESOURCES DEPT.
SALEM, OREGON

WESTERN WATER DEVELOPMENT
P.O. Box 1670
Redmond, OR 97756

Date started 3/23/00 Completed 11/1/00

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ WWC Number _____
Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed _____ WWC Number 1385
Date 1/3/01

Robert Buckner

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

Received by OWRD

APR 17 2025

Salem, OR

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form

DESC 52862

WELL ID # L 32860
(START CARD) # 126683

(1) OWNER: Well Number: #3
Name Terrebonne Domestic Water District
Address P.O. Box 31
City Terrebonne State OR Zip 97760

(2) TYPE OF WORK:
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Other

(4) PROPOSED USE: **MAR 1 2000**
☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 590 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks or pounds	
12in	0 19	Granular	0		
8in	19 395	Bentonite	19	14 sacks	
6in	395 590				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other Poured Dry
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:					✓				
	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded	
Casing:	8-in	+1	19	.250	☒	☐	☒	☐	
					☐	☐	☐	☐	
					☐	☐	☐	☐	
					☐	☐	☐	☐	
Liner:	6-in	+2	395	.188	☒	☐	☒	☐	
					☐	☐	☐	☐	

Final location of shoe(s) _____

From To		Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
315 395		3/16	960	6-in		☐	☒

(8) WELL TESTS: Minimum testing time is 1 hour
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
45	112'	357	.25 hr.
145	2	420	4.25 hr

Temperature of Water 56 Depth Artesian Flow found _____
Was a water analysis done? ☒ Yes By whom Coffey Labs
Did any strata contain water not suitable for intended use? ☒ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____
Depth of strata: 294-301 & 352-377

(9) LOCATION OF WELL by legal description:
County Deschutes Latitude _____ Longitude _____
Township 14S N or S. Range 13E E or W. of W.M.
Section 16CD SE 1/4 SW 1/4
Tax lot 800 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 8300 5th Street
Terrebonne, OR 97760

(10) STATIC WATER LEVEL:
304 ft. below land surface. Date 2/16/2000
Artesian pressure _____ lb. per square inch. Date _____

From To		Estimated Flow Rate	SWL
294 301		15-20	243
352 377		25-30	243
468 474		150-200	304
474 494		150-200	304

(12) WELL LOG: Ground elevation 2876'

Material	From	To	SWL
Sandy Top Soil & Broken Lava	0	2	
Brown Lava	2	6	
Blue Gray Basalt	6	39	
Red Cinder Rock	39	56	
Brown & Red Cinders	56	78	
Tan Tufted Ash	78	90	
Brown & Red Cinders & Brown Lava	90	110	
Black Cinders & Tufted Ash	110	171	
Blue Gray Basalt	171	220	
Hard Black & Gray Basalt - Broken	220	294	
Large Red Cinders - WB	294	301	243
Broken Gray Lava	301	319	243
Hard Gray Basalt	319	352	243
Brown Cinder Rock & Blk Sand WB	352	377	243
Broken Gray Lava	377	395	243
Gray Broken Lava	395	402	243
Gray & Brown Lava	402	428	243
Brown & Red Cinders, Brn Sand WB	428	453	304
Black & Brown Lava Rock WB	453	468	304
Red Cinders & Ash WB	468	474	304
Brown Cinders & Ash WB	474	494	304
Brown Lava	494	528	304
Red Cinder & Pumice Chunks - firm	528	545	304
Cinder & Pumice Ash w blk cinders	545	582	304

Continued on next page
Date started 2/16/2000 Completed 2/16/2000

(unbonded) Water Well Constructor Certification:
I have performed on the construction, alteration, or abandonment of this well in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.
APR 05 2000

WWC Number _____
Date _____
Signed Robert D. Buckner
WATER RESOURCES DEPT. SALEM, OREGON

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Robert D. Buckner WWC Number 1385
Date 2/25/01

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

APR 17 2025

Salem, OR

STATE OF OREGON
WATER SUPPLY WELL REPORT
(required by ORS 537.765)

DESC 52862

WELL ID # L 32860

(START CARD) # 126683

Page 2

(1) OWNER:

Well Number: #3

Name Terrebonne Domestic Water District
Address P.O. Box 31
City Terrebonne State OR Zip 97760

(2) TYPE OF WORK:

☐ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☐ No Depth of Completed Well _____ ft.
Explosives used ☐ Yes ☐ No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tel./pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

Temperature of Water _____ Depth Artesian Flow found _____

Was a water analysis done? ☐ Yes By whom _____

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County Deschutes Latitude _____ Longitude _____
Township 14S N or S. Range 13E E or W. of W.M.
Section 16CD SE 1/4 SW 1/4
Tax lot 800 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 8300 5th Street
Terrebonne, OR 97760

(10) STATIC WATER LEVEL:

_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL
545	580	200+	304
580	590	1,000+	304

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
Cinder & Pumice w brkn. basalt WB	582	590	304

Hammer downout and clean water encountered in
above formation. Well will be enlarged upon
results of water analysis

RECEIVED

APR 05 2000

RECEIVED

WATER RESOURCES DEPT.
SALEM, OREGON

MAR 1 2000

WATER RESOURCES DEPT.
SALEM, OREGON

Date started 2/25/2000 2/16/00 Completed 2/16/2000 2/25/00

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ WWC Number _____
Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed _____ WWC Number 1385
Date 2/25/01

Robert D. Buckner

ORIGINAL - WATER RESOURCES DEPARTMENT

FIRST COPY - CONSTRUCTOR

SECOND COPY - CUSTOMER

APR 17 2025

Salem, OR

TERREBONNE DOMESTIC WATER DISTRICT TEST WELL DIAGRAM

RECEIVED

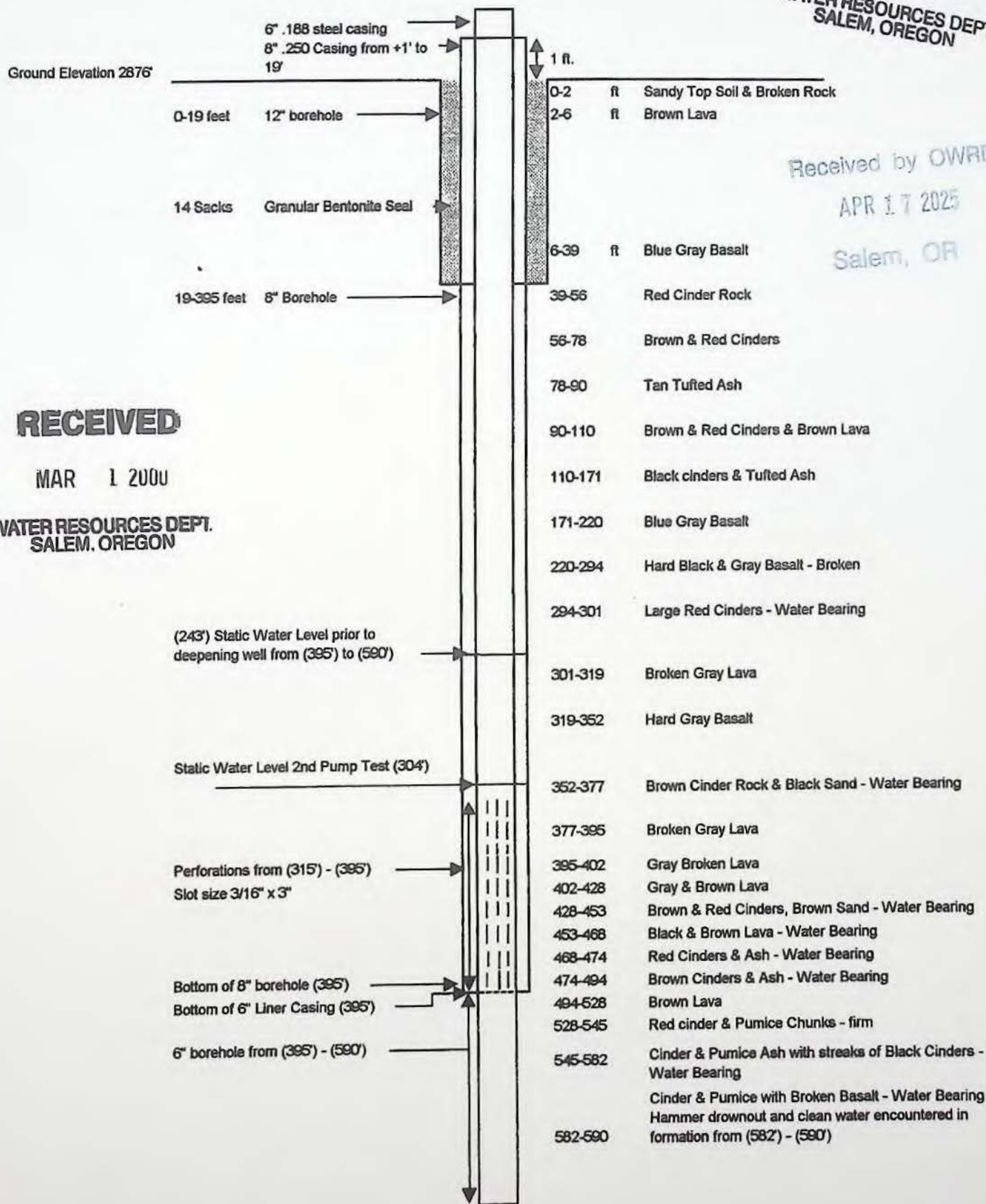
APR 05 2000

WATER RESOURCES DEPT.
SALEM, OREGON

Received by OWRD

APR 17 2025

Salem, OR



RECEIVED

MAR 1 2000

WATER RESOURCES DEPT.
SALEM, OREGON

Received by OWRD

APR 17 2025

Water Use Report Based on Water Right


☒ excel

☐ text

Permit: G 8542 *

TERREBONNE DOMESTIC WATER DISTRICT PO BOX 31 TERREBONNE, OR 97760

Records per page: [View All](#)

Water Year*	Report ID	Facility	Acre-feet (AF) of Water Used												Total Water Used	Irrigated Acres
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
2001	13200	WELL 1 (DESC 2377)	4.57	4.67	3.37	3.29	0.09	5.36	7.08	10.07	17.15	14.42	14.52	13.85	98.42	
2001	13201	WELL 2 (DESC 2387)	4.58	4.68	3.38	3.30	7.46	0.95	0.50	0.85	0.34	0.00	0.00	0.00	26.04	
2001	35227	WELL 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	6.06	2.62	12.74	
2000	13200	WELL 1 (DESC 2377)	5.40	4.28	4.44	4.03	3.89	4.09	3.78	4.71	9.80	9.81	10.16	8.71	73.10	
2000	13201	WELL 2 (DESC 2387)	5.44	4.31	4.48	4.08	3.94	4.14	5.81	4.74	9.92	9.93	10.29	8.78	75.85	
1999	13200	WELL 1 (DESC 2377)	10.07	4.68	2.48	0.44	3.74	3.36	2.49	4.79	7.44	9.44	7.60	8.15	64.68	
1999	13201	WELL 2 (DESC 2387)	5.94	5.04	3.41	5.45	3.81	3.49	5.89	4.83	7.52	9.62	7.71	8.30	71.01	
1998	13200	WELL 1 (DESC 2377)	5.38	4.32	3.70	4.47	3.95	3.79	4.40	5.34	5.35	9.59	18.32	7.05	75.67	
1998	13201	WELL 2 (DESC 2387)	4.21	3.72	3.20	3.88	3.41	3.20	4.02	4.47	4.45	8.01	9.04	8.35	59.97	
1997	13200		6.31	4.05	3.91	4.06	3.73	3.53	4.30	6.75	7.39	8.07	10.72	6.48	69.28	

		WELL 1 (DESC 2377)													
1997	<u>13201</u>	WELL 2 (DESC 2387)	3.33	3.45	3.42	3.67	3.14	3.15	3.80	5.97	6.43	7.02	9.32	6.03	58.73
1995	<u>13200</u>	WELL 1 (DESC 2377)	6.05	4.38	4.61	4.40	4.37	3.90	4.57	4.82	7.21	8.28	8.92	9.15	70.66

123456

*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 wateruse@wr.d.state.or.us or call (503) 986-0905.
- 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.

Received by OWRD
APR 17 2025
Salem, OR



Contact Information (Click to Collapse...)

▼ Current contact information

OWNER:
TERREBONNE DOMESTIC WATER DISTRICT
PO BOX 31
TERREBONNE, OR 97760

Water Right Information (Click to Collapse...)

Status: Non-Cancelled
County: Deschutes
File Folder Location: Salem
Watermaster District: 11

Processing History (Click to Collapse...)

▶ Application: G 9190

▼ Permit: G 8542 document

▶ Signature: 2/8/2001

Process Step	Date Completed	Result	Completed By
Completion Date [C Date]	10/1/2001		

▼ Order(s)

Order Origin	Volume-Page	Signature	Description
Special	36-176	5/12/1982	AUTHORIZES EXTENSIONS OF TIME FOR CERTAIN PERMITS
Special	41-144	3/25/1987	EXTENDS 212 PERMITS
Special	46-31	1/22/1992	EXTENSION OF TIME FOR VARIOUS PERMITS/TRANSFERS

▼ Transfer(s)

Transfer	Transfer type	Status
T8599 ()	Permit Amendment	Approved

▶ [View right with Web Mapping](#)

▶ [View Places of Use from Water Rights in the Same Area](#)

▶ [View Reported Water Use](#)

Scanned Documents (Click to Expand...)

Point(s) of Diversion (Click to Collapse...)

▶ [POD 1 - WELL 1 > DESCHUTES RIVER](#) ([View Groundwater Site DESC0002377](#))

▶ [POD 2 - WELL 2 > DESCHUTES RIVER](#) ([View Groundwater Site DESC0002387](#))

▶ [POD 3 - WELL 3 > DESCHUTES RIVER](#)

Place(s) of Use (Click to Collapse...)

[Add TRS grouping](#)

▶ Use - QUASI-MUNICIPAL USES
(Primary); Priority Date: 4/4/1979

Water Right Genealogy (Click to Collapse...)

─ Inchoate: T 8599 (AMN)

└─ Permit: G 8542 *

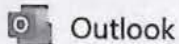
[View Water Rights in same Family](#)

[Report Errors with Water Right Data](#)

Received by OWRD

APR 17 2025

Salem, OR



RE: COBU for Permit G-8542 (TDWD); Map Waiver Request

From CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Date Mon 4/14/2025 1:59 PM
To jim newton <newtonjim@hotmail.com>

Jim,

Your request is approved as requested.

Have a great day!

Gerry

Gerry Clark

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

From: jim newton <newtonjim@hotmail.com>
Sent: Monday, April 14, 2025 1:08 PM
To: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Subject: Re: COBU for Permit G-8542 (TDWD); Map Waiver Request

Thanks Gerry for your email.

In addition to the map scale, I would also like to request a waiver from requiring the taxlots be identified-as TDWD is a quasi-municipal water supplier with a large service area and the tax lots would be extensive and not particularly beneficial to the COBU maps for the water right.

If you have further questions, please feel free to contact me at your earliest convenience.

Best,
~Jim

Jim Newton, PE, RG, CWRE

Principal - Engineer-Geologist

Cascade Geoengineering, LLC

21145 Scottsdale DR

Bend, Oregon 97701

360-907-4162

www.cascadegeoengineering.com

Received by OWRD

APR 17 2025

Salem, OR

From: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Sent: Monday, April 14, 2025 7:54 AM
To: jim newton <newtonjim@hotmail.com>
Subject: RE: COBU for Permit G-8542 (TDWD); Map Waiver Request

Jim,

Your request for a waiver regarding map scale is approved as accepted.

In the past, you have also asked for a waiver from identifying the tax lots (footprint and numbers). I cannot remember if we discussed this type of waiver for this permit in the past.

Let me know if an additional waiver will be requested.

Have a great day!

Gerry

Gerry Clark

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

From: jim newton <newtonjim@hotmail.com>

Sent: Friday, April 11, 2025 4:38 PM

To: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>

Subject: COBU for Permit G-8542 (TDWD); Map Waiver Request

Hi Gerry,

I am contacting you to request a map waiver for the COBU map for permit G-8542. Since the COBU is for a quasi-municipal water district so it doesn't fit on the 1:400 and would not show sufficient detail on 1:1320 scale. I have prepared maps that are 1:500 scale, if that is amenable to the department.

If you have any questions regarding this request, please feel free to contact me at your convenience.

Best,

~Jim

Jim Newton, PE, RG, CWRE

Principal - Engineer-Geologist

Cascade Geoengineering, LLC

21145 Scottsdale DR

Bend, Oregon 97701

360-907-4162

www.cascadegeoengineering.com

Received by OWRD

APR 17 2025

Salem, OR

RE: Meter Approval; permit G-8542, Terrebonne Domestic Water District

From GIFFIN Jeremy T * WRD <Jeremy.T.Giffin@water.oregon.gov>
Date Fri 4/11/2025 9:45 AM
To jim newton <newtonjim@hotmail.com>; VANLANINGHAM Sam J * WRD
<Sam.J.VANLANINGHAM@water.oregon.gov>

Hi Jim, As long as they are calibrated and reading correctly they meet my needs.

Thanks and enjoy your weekend,

Jeremy

From: jim newton <newtonjim@hotmail.com>
Sent: Thursday, April 10, 2025 3:37 PM
To: VANLANINGHAM Sam J * WRD <Sam.J.VANLANINGHAM@water.oregon.gov>; GIFFIN Jeremy T * WRD <Jeremy.T.Giffin@water.oregon.gov>
Subject: Meter Approval; permit G-8542, Terrebonne Domestic Water District

Hi Jeremy & Sam,

I am finalizing the COBU for a groundwater permit for Terrebonne Domestic Water District, permit G-8542, and am requesting meter approval for the three wells authorized on the permit, Wells 1, 2, 3. Attached are pictures of each meter.

The meters respectively are; Well #1 a Sonus W-350 totalizing flow meter (gallons); Well #2 a Sparling totalizing flow meter (cubic feet); Well #3 is a Sensus W-1000 totalizing flow meter (gallons); all analog meters with integral displays and remote output capabilities that are utilized.

If you have any questions, please let me know if you have any questions or additional needs.

Best,
~Jim

Jim Newton, PE, RG, CWRE

Principal - Engineer-Geologist

Cascade Geoengineering, LLC

21145 Scottsdale DR

Bend, Oregon 97701

360-907-4162

www.cascadegeoengineering.com

Received by OWRD

APR 17 2025

Salem, OR

G-9190

CLARK Gerald E * WRD

From: CLARK Gerald E * WRD
Sent: Monday, April 14, 2025 1:59 PM
To: jim newton
Subject: RE: COBU for Permit G-8542 (TDWD); Map Waiver Request

Jim,

Your request is approved as requested.

Have a great day!

Gerry

Gerry Clark

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

From: jim newton <newtonjim@hotmail.com>
Sent: Monday, April 14, 2025 1:08 PM
To: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Subject: Re: COBU for Permit G-8542 (TDWD); Map Waiver Request

Thanks Gerry for your email.

In addition to the map scale, I would also like to request a waiver from requiring the taxlots be identified-as TDWD is a quasi-municipal water supplier with a large service area and the tax lots would be extensive and not particularly beneficial to the COBU maps for the water right.

If you have further questions, please feel free to contact me at your earliest convenience.

Best,
~Jim

Jim Newton, PE, RG, CWRE

Principal - Engineer-Geologist

Cascade Geoengineering, LLC

21145 Scottsdale DR

Bend, Oregon 97701

360-907-4162

www.cascadegeoengineering.com

From: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Sent: Monday, April 14, 2025 7:54 AM
To: jim newton <newtonjim@hotmail.com>
Subject: RE: COBU for Permit G-8542 (TDWD); Map Waiver Request

Jim,

Your request for a waiver regarding map scale is approved as accepted.

In the past, you have also asked for a waiver from identifying the tax lots (footprint and numbers). I cannot remember if we discussed this type of waiver for this permit in the past.

Let me know if an additional waiver will be requested.

Have a great day!

Gerry

Gerry Clark

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

From: jim newton <newtonjim@hotmail.com>
Sent: Friday, April 11, 2025 4:38 PM
To: CLARK Gerald E * WRD <Gerald.E.CLARK@water.oregon.gov>
Subject: COBU for Permit G-8542 (TDWD); Map Waiver Request

Hi Gerry,

I am contacting you to request a map waiver for the COBU map for permit G-8542. Since the COBU is for a quasi-municipal water district so it doesn't fit on the 1:400 and would not show sufficient detail on 1:1320 scale.

I have prepared maps that are 1:500 scale, if that is amenable to the department.

If you have any questions regarding this request, please feel free to contact me at your convenience.

Best,
~Jim

Jim Newton, PE, RG, CWRE

Principal - Engineer-Geologist

RECEIVED

MAR 18 2005

Form C (890-9-77)

WATER RESOURCES DEPT
SALEM, OREGON

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make final proof to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the final proof inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when all of the water has been applied.

Application No. G-9190

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, Terrebonne Domestic Water District, the holder of Permit No. T-8599 G-8542

to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the 10th day of August, 2001.

Remarks: The Water District began pumping continuously into their expanded water system in August 2001. At that time production utilized the full capacity of this permit.

IN WITNESS WHEREOF, I have hereunto set my hand this 17th day of March, 2005

District Engineer

P.O. Box 31, Terrebonne, Oregon 97760

(Signature of Applicant)

(Address)

Form B (890-9-77)

Application No. G-9190

NOTICE OF COMPLETION OF CONSTRUCTION

I, Terrebonne Domestic Water District, the holder of Permit No. T-8599 G-8542

to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the 10th day of August, 2001.

Remarks: The District is using the full capacity of this permit.

If the works have less capacity than described in the permit, or you have definitely abandoned part of the proposed development, you should so state in order that our records may not be unnecessarily encumbered.

IN WITNESS WHEREOF, I have hereunto set my hand this 17th day of March, 2005

District Engineer

P.O. Box 31, Terrebonne, Oregon 97760

(Signature of Applicant)

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is completed.

Form A (890-9-77)

Application No.

NOTICE OF BEGINNING OF CONSTRUCTION

I,, the holder of Permit No.

to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the day of, 19.....

Remarks:

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment acquired for the water system up to the date of this statement, and any additional information which shows a substantial beginning of construction as authorized by your permit.

IN WITNESS WHEREOF, I have hereunto set my hand this day of, 19.....

(Signature of Applicant)

(Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is begun.



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

December 20, 2002

TERREBONNE DOMESTIC WATER DISTRICT
PO BOX 31
TERREBONNE OR 97760

REFERENCE: Permit #G8542 (App File #G9190) and the Adoption of New Administrative Rules for Municipal and Quasi-Municipal Water Use Permit Extensions

Dear Municipal and/or Quasi-Municipal Water Use Permit Holder:

The Water Resources Commission has adopted new administrative rules that govern the processing of Municipal and Quasi-Municipal permit extension requests. The new rules are contained in the Oregon Administrative Rules Chapter 690, Division 315 (OAR 690-315-0070 through 690-315-0100). If you wish to view a copy of the new Chapter 690, Division 315 Extension Rules, you may access the document from the Department's web page at:

http://www.wrd.state.or.us/cgi-bin/notices.pl?new_oars

The new rules implement many changes to the extension process for municipal and quasi-municipal permit holders. One of the most significant changes is that an extension is linked to the requirement to develop a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

In preparation for implementing the new extension rules, the Department has reviewed its records and determined that the authorized date for completion of development for your water use permit has passed and that neither a permit extension of time application, nor a claim of beneficial use and final proof survey map, have been received.

As a result of this review, your water use permit falls into one of the three following categories:

1. Development is Not Complete

If development of your water use permit is not finished, you must submit an application for extension of time to complete construction of the water system and/or complete beneficial use of water to the full extent of the permit. You may access the "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" on the Department's website at:

<http://www.wrd.state.or.us/publication/forms/index.shtml>

December 20, 2002
page two

2. Development is Complete and Final Proof Must be Submitted

If your water use permit was issued *after* July 9, 1987, and development of the permit is complete, you are required by law (ORS 537.230 and/or 537.630) to hire a certified water rights examiner to prepare and submit a claim of beneficial use and final proof survey map.

3. Development is Complete and Waiting for WRD to Conduct Final Proof Survey

If you applied for or received a permit *on or before July 9, 1987*, and development of the permit is complete, you must notify the Department that the work has been completed and choose to either: (a) hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; *or* (b) continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and the commission issues a water right certificate under ORS 537.250 or 537.625.

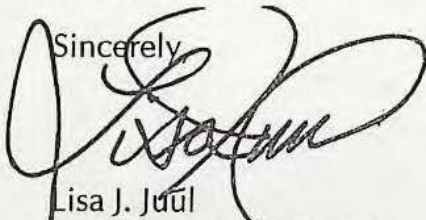
4. Permit is Not Needed and Wish to Authorize Cancellation

If you have determined that this permit is no longer needed and/or you have chosen not to pursue development of the permit, you may choose to authorize its cancellation. If you are interested in this option, please contact Jerry Sauter of our Department at extension 274 for the appropriate cancellation form.

Once you have determined which development category applies to your water use permit, please complete the enclosed "Quasi-Municipal/Municipal Water Use Permit Development Questionnaire" form and return it to my attention at the Water Resources Department by March 20, 2003.

If you would like the new rules or extension application forms sent to you by mail, or if have any questions, please feel free to contact me by telephone at 503-378-8455, extension 272.

Sincerely,



Lisa J. Juul
Water Rights Specialist
Water Rights Section

enclosure

cc: App File #G9190 (Permit #G8542)

Oregon Water Resources Department
Quasi-Municipal/Municipal Water Use Permit Development Questionnaire

Permit Holder: TERREBONNE DOMESTIC WATER DISTRICT
Permit #G8542 Application File #G9190

Please indicate which of the following applies to the above referenced Quasi-Municipal or Municipal water use permit by checking the appropriate box:

1. The Permit is Ready for Final Proof and...

- ☐ a Claim of Beneficial Use and Final Proof Survey map will be prepared and submitted by a Certified Water Rights Examiner;

- OR -

- ☐ the Water Resources Department (WRD) has been notified that development of the permit is complete, and the permit holder is waiting for WRD to conduct the final proof survey.

2. Development of the Permit is Not Complete and...

- ☐ the permit holder will submit a permit extension of time application to WRD no later than 90 days from the date of this letter (March 20, 2003).

3. The Permit is Not Needed and Wish to Authorize Cancellation...

- ☐ the permit holder has determined that this permit is no longer needed and/or has chosen not to pursue development of the permit, and wishes to authorize its cancellation.

Signature of Authorized Personnel

Date

Please return completed form by March 20, 2003 to:
Water Resources Department
Attention: Lisa Juul
158 - 12th Street NE
Salem OR 97301-4172



ARCHITECTS
ENGINEERS
SURVEYORS
PLANNERS

375 PARK AVE
COOS BAY
OREGON
97420

541.269.1166
FAX 541.269.1833
CELL 541.404.3791
rnored@hge1.com

Richard D. Nored, P.E.
Joseph A. Slack, A.I.A.
Russ Dodge, PLS
Stephen R. Cox

March 17, 2005

Oregon Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271

REFERENCE FILE: G 8542
T-8599

Attn: Steve Brown
Water Rights Caseworker

Re: Terrebonne Domestic Water District
Project No. 9743

Dear Steve:

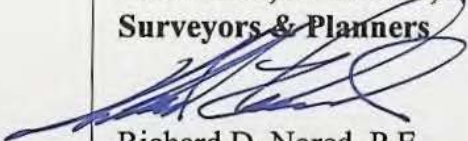
Enclosed in accordance with our conversation of this date is a completed application of water to a beneficial use, and a notice of completion of construction for the referenced groundwater permit in Terrebonne, Oregon. It is my understanding for this permit that site reports, mapping, etc. will be provided by the Oregon Water Resources Department.

It is also my understanding that there is no fee associated with completion of construction and application to beneficial usage, and that a certificate will be issued by the Oregon Water Resources Department when final reporting and mapping is complete. If these assumptions are incorrect, please notify me and we will forward appropriate fees to complete the certification process.

If you have any questions or modifications which need to be incorporated, please contact me at 541.269.1166, or via e-mail at rnored@hge1.com.

Very truly yours,

**HGE INC., Architects, Engineers,
Surveyors & Planners**


Richard D. Nored, P.E.
President

c. Doug McLaughlin
Chuck Forward
Russ Dodge, CWRE

RECEIVED

MAR 18 2005

**WATER RESOURCES DEPT
SALEM, OREGON**

STATE OF OREGON

COUNTY OF DESCHUTES

ORDER APPROVING AN ADDITIONAL POINT OF APPROPRIATION

Pursuant to ORS 537.211, after notice was given and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT T-8599 submitted by

TERREBONNE DOMESTIC WATER DISTRICT
P.O. BOX 31
TERREBONNE, OREGON 97760.

The permit to be modified is Permit G-8542 with a date of priority of APRIL 4, 1979. The permit allows the use of TWO WELLS, in the DESCHUTES RIVER BASIN, for QUASI-MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 1.0 cubic foot per second, if available at the original wells; NE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 16, T 14 S, R 13 E, W.M.; WELL 1 - 1360 FEET NORTH AND 2480 FEET EAST; WELL 2 - 1300 FEET NORTH AND 2340 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 16, or its equivalent in case of rotation, measured at the wells.

The use shall conform to any reasonable rotation system ordered by the proper state officer.

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2).

Pursuant to ORS 536.075 and OAR 137-004-080 and OAR 690-01-005 you may either petition for judicial review or petition the Director for reconsideration of this order.

The authorized place of use is as follows:

SW $\frac{1}{4}$ NE $\frac{1}{4}$
SE $\frac{1}{4}$ NE $\frac{1}{4}$
SW $\frac{1}{4}$ NW $\frac{1}{4}$
SE $\frac{1}{4}$ NW $\frac{1}{4}$
SW $\frac{1}{4}$
SE $\frac{1}{4}$
SECTION 16

TOWNSHIP 14 SOUTH, RANGE 13 EAST, W.M.

This use may be regulated if analysis of data available discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of this right or as those quantities may be reduced.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

The applicant proposes an additional point of appropriation located:

SE $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 16, T 14 S, R 13 E, W.M.; 1130 FEET NORTH AND 1360 FEET EAST FROM THE SW CORNER OF SECTION 16.

THIS CHANGE TO AN EXISTING WATER PERMIT MAY BE MADE PROVIDED THE FOLLOWING CONDITIONS ARE MET BY THE WATER USER:

1. The quantity of water diverted at the new point of appropriation (well), together with that diverted at the old points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation.
2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same aquifer as the original points of appropriation.
4. All other terms and conditions of the permit remain the same.

Permit G-8542, in the name of TERREBONNE DOMESTIC WATER DISTRICT is amended as described herein.

WITNESS the signature of the Water Resources

Director, affixed _____.

Paul R. Cleary, Director

February 26, 1997

TERREBONNE DOMESTIC WATER DISTRICT
PO BOX 31
TERREBONNE OR 97760

REFERENCE: File G-9190

We have received your application for extension of time to complete work under Permit Number G-8542.

Your request is approved by Special Order Volume 51, Page 109. The time limit for complete application of water is extended to October 1, 2001.

Certain water right holders that serve as water suppliers may be required to submit water management and conservation plans at some point in the future. You should be advised that the Water Resources Commission may adopt administrative rules that will require you to prepare and submit such plans in the future.

If you are interested in receiving periodic information concerning the conservation program or the development and adoption of management and conservation rules, please contact the Water Conservation staff at the Salem office of the Water Resources Department.

If you have questions concerning this extension please contact me at extension 272 at 1-800-624-3199 (toll-free) or 1-503-378-3739.

Sincerely,

Dallas S. Miller
Water Rights Specialist

DSM:jh



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

EXTENSION CHECKLIST

FILE DOCUMENT - FOR OFFICE USE ONLY

APPLICATION NO: G 9190

PERMIT NO: G 8542

DATE: December 11, 1996

1. Has the applicant requested any previous extensions? How many?
3
2. What water right development steps has the permittee completed within the past year?
Install 400' 6" main, 600' 8" main, and 100' service pipe. Purchased additional property for storage system.
3. What water right development steps has the permittee completed prior to this past year?
2 wells in, pumps in, water system in.
4. Is the permittee currently meeting all conditions of the permit?
YES. No special conditions.
5. What is the current use of water under the permit?
Quasi-municipal.
6. What percent of the total allowable use under the permit does the current use represent?
13 %
7. Have there been any unforeseen events (over which the permittee has no control) which could reasonably have delayed development under the permit?
NO.
8. Has there been any change in the market for either water or power since the permit was granted which could have affected the development program under the permit?
NO.
9. Has there been any change in demand for water or power since the permit was granted?
NO.
10. If the extension request is denied, is the current level of water use under the permit economically feasible?
NO.
11. Is there an alternate source of water available at this time?
NO.
12. Has use of water under the permit caused an adverse impact on the surface/groundwater resource in the area?
NO.
13. Have there been claims of injury to other water right holders or water users in the area?
NO.
14. Any conditions on previous orders?
NO.

REMARKS:

Requesting extend B-C from 10/1/96 to 10/1/2001. Diligence shown, water system in and functioning. Recommend extend B-C to 10/1/2001.

Application for Extension of Time**RECEIVED**

TO THE WATER RESOURCES DIRECTOR OF OREGON

OCT 11 1996

WATER RESOURCES DEPT.
SALEM, OREGONI, Terrehonne Domestic Water District

Name

P.O. Box 31

Mailing Address

Terrehonne

City

Oregon

State

97760

Zip

record owner of water permit No. G- 8542, do hereby request that the time in which to:

- ☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1996, be extended to October 1, 2001 and/or the time in which to
- ☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1996 be extended to October 1, 2001

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

- (1) within the past year we have installed 400' of 6", 600' of 8", and 100' of service pipe. We have purchased 1 1/2 acres of property to locate new pumping and water storage facility.
- (2) prior to this past year we installed 7 new service connections, 4 5/8 x 3/4, 2 1", and 1 2". 1000' of 8", 315' of 4" and 200' of service pipe.
- (3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) _____

(If additional space is required, attach separate sheet)

Bill Tittle, Chairman

(If signing for a corporation please identify your title)

Dated September 27, 1996MAIL COMPLETED APPLICATION AND STATUTORY FEE
OF \$100.00 FOR EACH PERMIT TO:Water Resources Department
3850 Portland Road N.E.
Salem, Oregon 97310OK B-c 10-1-2001
DSM

Terrebonne Domestic Water District

1110 C. Avenue • P.O. Box 31 • Terrebonne, Oregon 97760 • Phone: 548-2727

September 27, 1996

Water Resources Department
3850 Portland Road N.E.
Salem, Oregon 97310

To: Dallas Miller

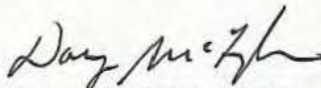
RECEIVED

OCT 11 1996

WATER RESOURCES DEPT.
SALEM, OREGON

Dear Sir,

We are requesting additional time to complete construction of necessary facilities to allow complete use of water as permitted. We have an CDBG grant in the works that will fund the construction of a 250,000 gallon reservoir, new pumping facility and approximately 1500' of distribution pipe. Unfortunately this grant process is very slow, therefore we thought it best to apply for plenty of time in which to have these works completed. If you have any Questions, do not hesitate to call me.



Doug McLaughlin,
System Operator/Manager

Terrebonne Domestic Water District

1110 C. Avenue • P.O. Box 31 • Terrebonne, Oregon 97760 • Phone: 548-2727

11/29/96

Dallas S. Miller
Oregon Water Resources Department
158 12th Street NE.
Salem, OR 97310-0210

RECEIVED
DEC - 6 1996
WATER RESOURCES DEPT.
SALEM, OREGON

RE: File G 9190

Dear Mr Miller,

In order to process our request for extension of time, you indicated the need to know the number of residences served by our Water District. Currently we are serving water to 375 customers, 2 new connections have been installed recently and should be active within several weeks.

If you need any other information to complete processing our application, do not hesitate to contact me.

Sincerely,

Doug McLaughlin
System Operator/Manager

October 22, 1996

BILL TITTLE
TERREBONE DOMESTIC WATER DISTRICT
PO BOX 31
TERREBONE, OR 97760

REFERENCE: File G 9190

Dear Mr Tittle,

We received your request for extension of the time limits on permit G 8542. We need some more information. How many residences do you serve ?

Please send us this information so we can finish processing your request.

If you have any questions please call me at 503-378-3739 ext 272.

Sincerely,



DALLAS S. MILLER
Water Rights Specialist

DSM:



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

69190

STATE OF OREGON

COUNTY OF DESCHUTES

ORDER APPROVING AN ADDITIONAL POINT OF APPROPRIATION

Pursuant to ORS 537.211, after notice was given and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT T-8599 submitted by

TERREBONNE DOMESTIC WATER DISTRICT
P.O. BOX 31
TERREBONNE, OREGON 97760.

The permit to be modified is Permit G-8542 with a date of priority of APRIL 4, 1979. The permit allows the use of TWO WELLS, in the DESCHUTES RIVER BASIN, for QUASI-MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 1.0 cubic foot per second, if available at the original wells; NE¼ SW¼, SE¼ SW¼, SECTION 16, T 14 S, R 13 E, W.M.; WELL 1 - 1360 FEET NORTH AND 2480 FEET EAST; WELL 2 - 1300 FEET NORTH AND 2340 FEET EAST, BOTH FROM THE SW CORNER OF SECTION 16, or its equivalent in case of rotation, measured at the wells.

The use shall conform to any reasonable rotation system ordered by the proper state officer.

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2).

Pursuant to ORS 536.075 and OAR 137-004-080 and OAR 690-01-005 you may either petition for judicial review or petition the Director for reconsideration of this order.

The authorized place of use is as follows:

SW¼ NE¼
SE¼ NE¼
SW¼ NW¼
SE¼ NW¼
SW¼
SE¼
SECTION 16

TOWNSHIP 14 SOUTH, RANGE 13 EAST, W.M.

This use may be regulated if analysis of data available discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of this right or as those quantities may be reduced.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

The applicant proposes an additional point of appropriation located:

SE¼ SW¼, SECTION 16, T 14 S, R 13 E, W.M.; 1130 FEET NORTH AND 1360 FEET EAST FROM THE SW CORNER OF SECTION 16.

THIS CHANGE TO AN EXISTING WATER PERMIT MAY BE MADE PROVIDED THE FOLLOWING CONDITIONS ARE MET BY THE WATER USER:

1. The quantity of water diverted at the new point of appropriation (well), together with that diverted at the old points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation.
2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same aquifer as the original points of appropriation.
4. All other terms and conditions of the permit remain the same.

Permit G-8542, in the name of TERREBONNE DOMESTIC WATER DISTRICT is amended as described herein.

WITNESS the signature of the Water Resources
Director, affixed FEB 08 2001.


for Paul R. Cleary, Director

G 8542

STATE OF OREGON WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Ground Water **APK 41979**

WATER RESOURCES DEPT.

SALEM, OREGON

I, Terrebonne Domestic Water District, Glenn Williams, Chairman
(Name of Applicant)

of P.O. Box 31 Terrebonne
(Mailing Address) (City)
548-2727

State of Oregon, 97760 Phone No. 548-2248 do hereby
(Zip Code)

make application for a permit to appropriate the following described ground waters of the State of Oregon:

1. The development will consist of 2 wells, constructed 1936 and 1968
(Give number of wells, tile lines, infiltration galleries, etc.)

having a diameter of 8 inches and an estimated depth of 380 to 400 feet.

2. The well or other source is to be located 2 1300 ft. North and 2340 ft. East
(N. or S.) (E. or W.)

from the Southwest corner of Section 16, T. 14 S., R13 E., W.M.
(Public Land Survey Corner)

(See attached map)

(If there is more than one well, each must be described)

(If there is more than one well, each must be described)

.....	Northeast	Southwest
.....	being within the Southeast.....	$\frac{1}{4}$ of the Southwest... $\frac{1}{4}$ of

Sec. 16 Tp. 14S R. 13E, W. M., in the county of Deschutes

3. Location of area to be irrigated, or place of use if use other than irrigation.

[illegible]

4. It is estimated that 380 to 400 feet of the well will require steel casing.
(Kind)

5. Depth to water table is estimated 320 Well drilled by Crawford Well Drilling
(Feet)

Application No. G-9190

Permit No. G 8542

Permit to Appropriate the Public Waters of the State of Oregon

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

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 1.0 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from two wells.

The use to which this water is to be applied is quasi-municipal.

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed acre feet per acre for each acre irrigated during the irrigation season of each year;

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

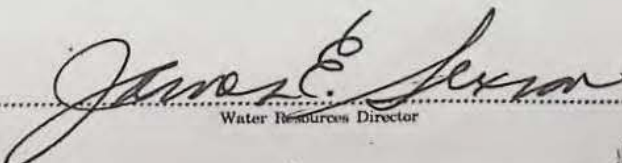
The priority date of this permit is April 4, 1979.

Actual construction work shall begin on or before May 30, 1980 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19...80.....

Complete application of the water to the proposed use shall be made on or before October 1, 19...81.....

WITNESS my hand this 30th day of May, 19...79.....

B+C ext to 10-1-01


Water Resources Director

DUR



Water Resources Department

1507 EAST FIRST STREET, BEND, OREGON 97701 PHONE 388-6669

January 21, 1982

Terrebonne Domestic Water District
Glenn Williams, Chairman
P.O. Box 31
Terrebone, Or 97760

Reference: File G-9190

I talked with Hank Bruffett about your water permit G-8542. This permit allows for the diversion of up to 1.0 cfs of water from two wells for quasi-municipal use. The date for the complete application of water was October 1, 1981.

Mr. Bruffett estimated that your wells were pumping about 127 gpm for possibly four hours a day. He also estimated that you have approximately 300 meters and are adding up to ten more each year.

That is quite a bit less than allowed by your permit. The time for complete application of water may be extended by showing reasonable diligence in completing the project.

I am sending the necessary form, on which I have penciled the proper numbers. You need to enter the necessary information to show due diligence toward the completion of the project.

I will hold off on the final proof survey to allow you time to submit this application. If you do not wish to apply for the extension of time, please call me and I will complete the survey as soon as convenient.

Sincerely,

Larry H. Nunn
Water Rights Examiner

LN

~~#~~ 6-9190 6-8542

Terrebonne Domestic Water District

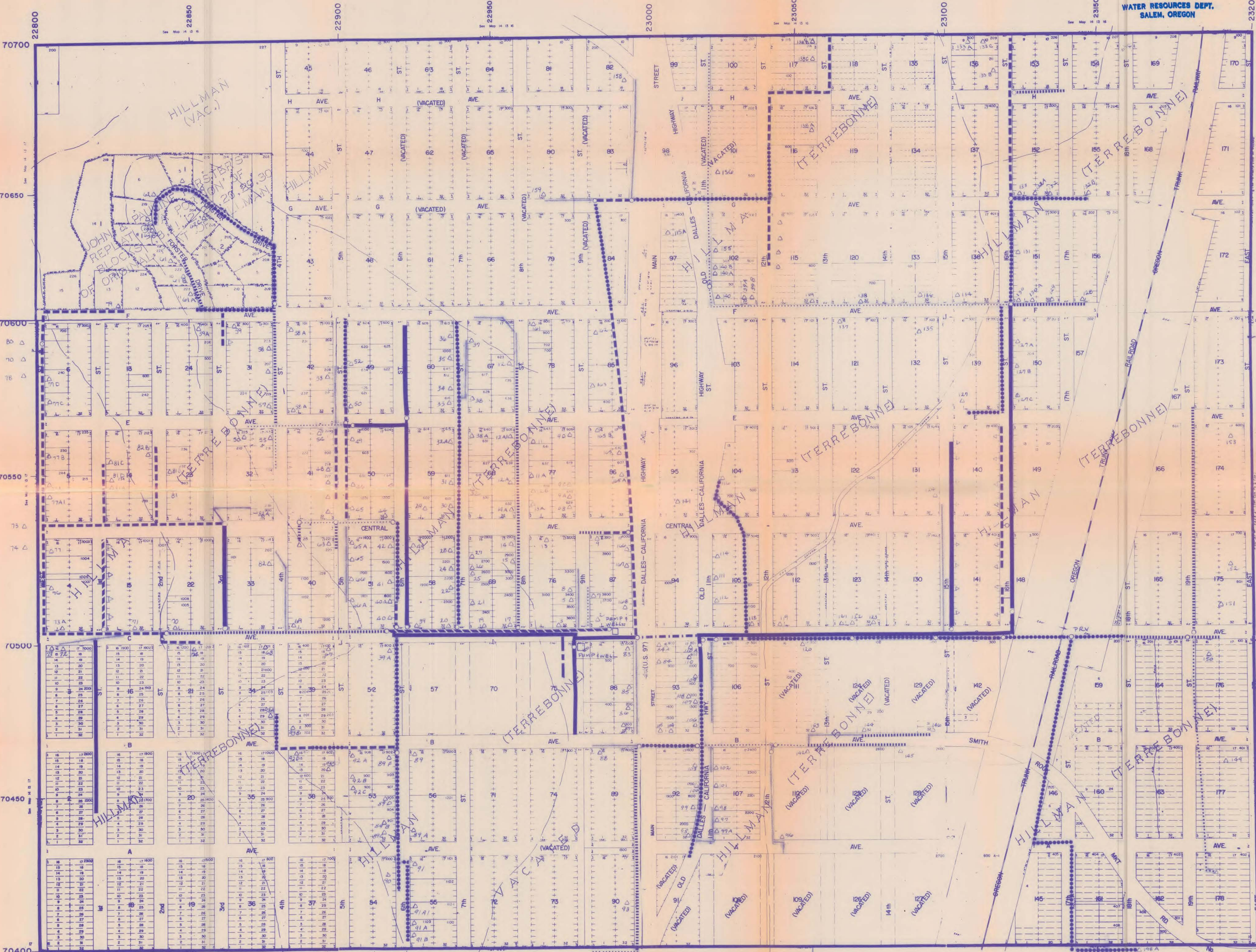
Info Hank Bruffett, maintenance, by phone

Remarks: Mr. Bruffett estimates that now the district is pumping about 127 gpm. He said they have about 300 meters.

Mr. Bruffett said the district is still ~~expanding~~ expanding by about 3 to 10 meters per year.

I said I would hold off final proof until they could file an extension application

1-20-82 *[Signature]*
WRE



LEGEND

4" PIPE	1 1/4" PIPE
3" PIPE	1" PIPE
2 1/2" PIPE	3/4" PIPE
2" PIPE	WATER VALVE
1 1/2" PIPE	PRV
6" PIPE	SERVICE

TERREBONNE WATER SYSTEM		
SCALE 1" = 200'	DATE REVISED FEBRUARY, 1979	JOB 77-18.0
DSN	CONSULTANTS NORTHWEST	SHEET NO.
MDH	PO BOX 759, 907 W. HIGHLAND	1
CKD	REDMOND, OREGON 97756	OF 1
AHK	PHONE 548-6136	

December 11, 1991

Terrebonne Domestic Water District
PO Box 31
Terrebonne, OR 97760

REFERENCE: File G-9190

We received your application for extension of the time limits to complete construction and make complete application of water under Permit G-8452. We also have your check for \$100 for which our receipt number 81729 is enclosed.

The application indicates reasonable diligence toward completion of the proposed project. Therefore, the time limits to complete construction and make complete application of water are extended to October 1, 1996.

If you have any questions, please contact the Water Rights Section at 378-3739.

TES:tcb

Enclosure



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
FAX (503) 378-8130

Application for Extension of Time

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, Terrebonne Domestic Water District

Name

P.O. Box 31

Mailing Address

Terrebonne

City

Oregon

State

97760

Zip

record owner of water permit No. G- 8542, do hereby request that the time in which to:

- ☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1991, be extended to October 1, 1996; and/or the time in which to
- ☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1991, be extended to October 1, 1996.

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

(1) within the past year (s) We have installed 2 new pressure pumps, 10hp & 15hp- 300' of 8", 240' of 6", 260' of 4", 260' of 2" water mains- 14 new water service connections & 335' of 3/4", 1", & 1 1/4" service line.

(2) prior to this past year See previous application for extention dated 15 November 1986.

(3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) _____

(If additional space is required, attach separate sheet)

Bill Tittle, Chairman

(If signing for a corporation please identify your title)

Dated November 22, 1991

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF \$100.00 FOR EACH PERMIT TO:

Water Resources Department
3850 Portland Road N.E.
Salem, Oregon 97310

12-10-91

\$10000

81729

OK
10-1-96
JES

378-8508

January 20, 1987

Terrebonne Domestic Water District
PO Box 31
Terrebonne, OR 97760

Attention: Glen R. Williams

REFERENCE: File G-9190

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your Permit G-8542 was received. We also have your check in the amount of \$100.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1991.

Sincerely,

BRUCE A. ESTES
Survey/Certificate Section

BAE:jw

Enclosures

5520D

G 9190

Application for Extension of Time

RECEIVED

TO THE WATER RESOURCES DIRECTOR OF OREGON

NOV 18 1986

I, Terrebonne Domestic Water District

Name

WATER RESOURCES DEPT.
SALEM, OREGONP.O. Box 31

Mailing Address

TerrebonneOregon97760

City

State

Zip

record owner of water permit No. G 8542, do hereby request that the time in which to:

☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 19⁸⁶, be extended to October 1, 19⁹¹, and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 19⁸⁶ be extended to October 1, 19⁹¹.

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

(1) within the past year We have installed 400' of 4" water line and 300' of 2" water line so there is water available for new services. We also have installed 5 new meter services.

(2) prior to this past year We have installed 560' of 4" water lines and added 15 new meter services.

(3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) _____

(If additional space is required, attach separate sheet)

Glen Williams, Chairman

(If signing for a corporation please identify your title)

Dated November 15, 1986MAIL COMPLETED APPLICATION AND STATUTORY FEE
OF \$100.00 FOR EACH PERMIT TO:Water Resources Department
3850 Portland Road N.E.
Salem, Oregon 97310B C
10-1-91
B A 911-18-86
100.00
50795

378-8508

November 13, 1986

TERREBONNE DOMESTIC WATER DISTRICT
GLENN WILLIAMS
PO BOX 31
Terrebonne, OR 97760

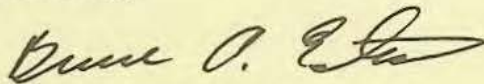
REFERENCE: File Number G-9190

I am enclosing a form for use in making application for an extension of time limits under Permit Number G-8542

The Water Resources Director is permitted by law to extend the time for completion of a project only upon a showing of reasonable diligence by the permittee. Therefore, you should fill out this application carefully and completely describing what has been accomplished.

The application must be submitted to this office with the statutory filing fee in the amount of \$100 for each permit.

Sincerely,



BRUCE A. ESTES, Supervisor
Survey/Certificate Section

BAE:wpc

690-10-115
6164A

RECEIVED

FEB 8 1982

WATER RESOURCES DEPT
SALEM, OREGON

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit: within the past year TDWD has installed 2,100 ft. of 4" line with anticipated service for 15 new services and approximately 40 people.

Prior to this past year TDWD is now serving 300 services with approximately 850 people. TDWD has 2 wells which are pumping 254 GPM.

Planned construction for the next five years are approximately 1,500 to 1,800 ft. of 4" line a year which will serve approximately 12 or 14 new services a year.

We have 2 wells with the capacity to pump 400 GPM.

Ultimate population estimated at 2880 people. Total acreage within TDWD is 480 acres.



Water Resources Department

1507 EAST FIRST STREET, BEND, OREGON 97701 PHONE 388-6669

January 21, 1982

Terrebonne Domestic Water District
Glenn Williams, Chairman
P.O. Box 31
Terrebonne, Or 97760

RECEIVED
JAN 25 1982
WATER RESOURCES DEPT
SALMON, OREGON

Reference: File G-9190

I talked with Hank Bruffett about your water permit G-8542. This permit allows for the diversion of up to 1.0 cfs of water from two wells for quasi-municipal use. The date for the complete application of water was October 1, 1981.

Mr. Bruffett estimated that your wells were pumping about 127 gpm for possibly four hours a day. He also estimated that you have approximately 300 meters and are adding up to ten more each year.

That is quite a bit less than allowed by your permit. The time for complete application of water may be extended by showing reasonable diligence in completing the project.

I am sending the necessary form, on which I have penciled the proper numbers. You need to enter the necessary information to show due diligence toward the completion of the project.

I will hold off on the final proof survey to allow you time to submit this application. If you do not wish to apply for the extension of time, please call me and I will complete the survey as soon as convenient.

Sincerely,

Larry H. Nunn
Water Rights Examiner

LN

CONSULTANTS NORTHWEST

907 W. HIGHLAND • P.O. BOX 759 • REDMOND, OR 97756

RECEIVED

JUL 16 1979

WATER RESOURCES DEPT
SALEM, OREGON

July 13, 1979

Water Resource Department
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

Attention: James E. Sexson
Director

Gentlemen:

SUBJECT: Terrebonne Domestic Water District
Permit No. G-8542

Please find attached an executed copy of Form C for Appropriation of Groundwater in accordance with your letter of June 11, 1979.

We would like to point out, that the original well and application of water for beneficial use began in 1936, with a subsequent well placed on line in 1968. The original application provided supplemental information regarding the Terrebonne Domestic Water District system for your review.

If you have any questions regarding this matter, please feel free to contact us.

Sincerely,



Anthony H. Krutsch, P.E.
Consultant

AHK/js
Enclosure
cc: Terrebonne Domestic Water District



Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE

June 11, 1979

Terrebonne Domestic Water District
Glenn Williams, Chairman
P. O. Box 31
Terrebonne, OR 97760

G-9190

G-8542



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-3066

G-9190

May 7, 1979

Terrebonne Domestic Water Dist.
Glenn Williams, Chairman
P.O. Box 31
Terrebonne, OR 97760

Dear Mr. Williams:

The application for a permit to use 1.0 cubic foot of water per second from 2 wells for quasi-municipal use has been filed and numbered G-9190. We have also received maps and fees of \$35.00.

The application is satisfactory and will be considered for approval by issuance of a permit.

Sincerely,

VESTAL GARNER
Water Rights Engineer

VG:tld
enc: Receipt No. 10061
cc: Consultants Northwest
907 W. Highland
P.O. Box 759
Redmond, OR 97756

COPY

RECEIVED

APR 4 1979

CONSULTANTS NORTHWEST

907 W. HIGHLAND • P.O. BOX 759 • REDMOND, OR 97756
WATER RESOURCES DEPT.
SALEM, OREGON

March 28, 1979
77-18.2

Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

Application No. G-9190
Permit No.

Attention: Vestal R. Garner
Water Rights Engineer

Gentlemen:

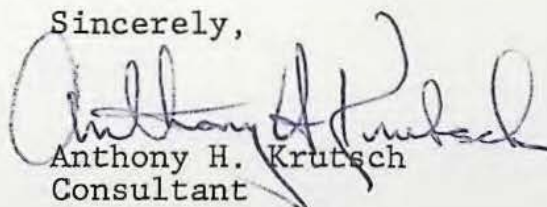
SUBJECT: Ground Water Application
Terrebonne Domestic Water District

Attached is the following material in support of the application of the Terrebonne Domestic Water District for the appropriation of ground water to provide domestic water, irrigation and fire protection to the unincorporated community of Terrebonne in Deschutes County, Oregon.

1. Application for a Permit to Appropriate Ground Water.
2. An original drawing and four copies of a map showing the location of the wells, and other information as required.
3. Check in the amount of \$35.00 covering domestic, irrigation and fire protection use.

If you have any questions about this matter, please feel free to contact me at our Redmond Office. Your prompt attention to this matter will be appreciated.

Sincerely,


Anthony H. Krutsch
Consultant

AHK/js

Enclosure

CC: Terrebonne Domestic Water District



WATER RESOURCES DEPARTMENT

1178 CHEMEKETA STREET N.E. • SALEM, OREGON • 97310 • Phone 378-3066

NOTICE OF FILING APPLICATION FOR A PERMIT TO APPROPRIATE WATER

File No. G-9190

GOVERNOR

Name Terrebonne Domestic Water District
Glen Williams, Chairman
Address P. O. Box 31
Terrebonne, OR 97760
Water source Two wells

Use 1050 water services, including single-family and commercial building
"Quasi-Municipal"

Point of diversion #1; 1360 ft N & 2480 ft E, #2; 1300 ft N & 2340 ft E from the SW corner,
Section 16, being within #1; NE $\frac{1}{4}$ SW $\frac{1}{4}$, #2; SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16, T.14 S., R.13 E.,
Amount of water 1.0 c.f.s. or 450 g.p.m. W.M., Deschutes County

DESCRIPTION OF LAND TO BE IRRIGATED OR PLACE OF USE

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$			
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
14	S13 E	16			X	X			X	X	X	X	X	X	X	X	X	X

Any person desiring to protest the approval of this application shall file a written protest in the office of the Director of the Water Resources Department at Salem, Oregon, within thirty days from the date of this notice.

A copy of the Rules for Administrative Procedures in Contested Cases Before the Director of the Water Resources Department of Oregon will be supplied free upon request.

Dated at Salem, Oregon, this 17th day of April, 19 79.

James E. Sexson
Water Resources Director

RECEIVED
APR 4 1979
WATER RESOURCES DEPT.
SALEM, OREGON

TERREBONNE DOMESTIC

WATER DISTRICT

Application No. G-9190
Permit No.

JANUARY 1978

CHAIRMAN: GLEN WILLIAMS
TREASURER: BOB RICKETTS
SECRETARY: HELEN FROST
BOARD MEMBERS: WYLAND LEDBETTER
DEMPSEY FURGASON

CONSULTANTS NORTHWEST
P.O. BOX 759
REDMOND, OREGON 97756
PHONE: 548-1362

TERREBONNE DOMESTIC WATER DISTRICT
APPRAISED VALUE
of
EXISTING SYSTEM

GENERAL

The purpose of this report is to assist the Terrebonne Domestic Water District in determining the present value of the existing water supply system using engineering appraisal methods in conformance with the request from the Office of the Secretary of State, State of Oregon.

The area served by the Terrebonne Domestic Water District includes all of the land within the Southerly three quarters of Township 14 South, Range 13 East, Section 16 of the Willamette Meridian in Deschutes County, Oregon. The District in addition, presently provides water service to approximately 7 customers who reside outside the Water District boundary.

Approximately 250 water services exist at the present time with the majority providing service to single family residential structures.

Climate in the area is characterized as semi-arid, with temperature extremes ranging from near 0 in the winter to over 100 degrees on the hottest summer days. Rainfall averages around 8.5 inches per year with the bulk occurring during the winter months of November-March.

The Terrebonne area is underlain by extensive basaltic lava flows that are believed to have originated in the Newberry Crater area south of Bend. The surface layer of lava in Terrebonne is approximately 200 to 300 feet in depth and contains numerous cracks and joints running through the formation. This lava overlays the Madras formation composed of sandstone and conglomerates. The Madras formation is the primary source of ground water in the middle Deschutes River basin.

Soil depths in the area range from 0 to 6 feet, with the greater soil depths occurring generally to the north, south and in some portions of the City. A major portion of the study area is characterized by basalt rock laying at, or less than two feet below the surface. The presence of this shallow bedrock indicates that a large percentage of trench excavation in Terrebonne must be accomplished by blasting this surface bedrock to the required depths.

Terrebonne has no groundwater zone near the surface. There is a major groundwater aquifer underlying the area in the Madras formation, as previously described, that ranges from 300 to 400 feet in depth.

COST APPROACH

The cost approach consists of estimating a replacement cost of the entire system, including all the assets and appurtenances.

REPLACEMENT COSTS. Considerable difficulty was encountered in establishing a replacement cost. The drawings of the Terrebonne Domestic Water District distribution system are not considered to be adequate. During the course of our investigation, we found situations where the pipes shown on the drawings are no longer in service, several instances where new pipelines had been installed, and some old pipelines which have been replaced with new pipes. It was necessary to inspect the plans and the system with the Water District Board to determine where pipelines were located, what types of pipes were installed, and when they were installed. Many of these questions remain unanswered, resulting in numerous assumptions concerning pipe condition, size, and locations.

The degree of accuracy of pipeline locations on the drawings is limited to an indication upon which side of a street the line may be constructed.

Table 1 shows an estimated replacement cost of the existing supply, storage, and distribution system using quantities of pipe taken from Terrebonne Domestic Water District maps and from observations in the field.

Estimated costs used in Table 1 are based on present day construction prices.

Table 1

ESTIMATED REPLACEMENT COSTS
EXISTING DISTRIBUTION, STORAGE AND SUPPLY SYSTEMS

A. DISTRIBUTION AND STORAGE

1. Piping, including fittings, valves, and accessories		170,500
2. Meters and connections	250	25,000
3. Pressure regulating stations	2	400
4. Storage structure	1	<u>17,500</u>
		\$213,400

B. SUPPLY

1. Piping, including fittings, valves, and accessories		5,200
2. Well House #1		14,000
3. Well House #2		<u>11,300</u>
Total Distribution, Storage, and Supply Replacement Cost		\$243,900

Table 2 lists other items to be considered in establishing the present value of the Terrebonne Domestic Water District.

TABLE 2

EXISTING LAND, OPERATING EQUIPMENT, AND SUPPLIES

A. LAND AND BUILDINGS

1. Reservoir Site and Well No. 1: Located on a 60 by 75 foot lot on the south side of C Avenue at 9th Street adjacent to the Terrebonne Grade school. The property is fenced with a 6 foot high cyclone mesh.
2. Well No. 2: Located approximately 150 feet easterly of Well No. 1 site on the north side of the C Avenue right-of-way.
3. Shop Building: Wood frame structure, concrete floor and is wired. Building is located on the same property with the reservoir and Well No. 1.
4. Easements: The District has numerous locations where pipelines are located on private property. It is assumed that easements do exist on these properties, although we were not able to locate such documents in the District's records.
5. Permits: Numerous road permits have been issued to Terrebonne Domestic Water District by Deschutes County. These permits should be retained in a special file for future reference.
6. Special Agreement: The District has entered into special agreements with property owners in the past as they relate to the extension of water mains. We again suggest that these agreements be maintained in a separate file for future reference.

B. OPERATING EQUIPMENT

1. Vehicles: The District does not presently own vehicles.
2. Tools: Various hand, power, and plumbing tools, including wrenches, shovels, pipe threaders, and cutters.
3. Excavating Equipment: Provided by individual contractors when required.
4. Other: Small miscellaneous equipment (ie. calculator, etc.)

C. SUPPLIES

1. Pipe: Quantities of P.V.C. in 4, 2, and 1½ inch diameters. Galvanized iron pipe in 3 to 4 inch diameter, and corrugated aluminum pipe in 6 and 8 inch sizes.

2. Fittings: Various types and sizes of pipe fittings for $\frac{1}{2}$ - to $\frac{1}{4}$ -inch pipe mentioned previously.
3. Meters: Service meters and meter boxes.
4. Other: Valves, valve boxes, connectors, and miscellaneous hardware such as nails, bolts, etc.

Replacement costs for items listed under OPERATING EQUIPMENT AND SUPPLIES in Table 2 may be accurately estimated after inventory of all items. For purposes of this report, an assumed replacement cost of \$800 for equipment and \$4300 for supplies is used.

Cost to replace the shop building at C Avenue and 9th Street is estimated to be approximately \$3,000.

Determination of replacement costs of land presents several problems. The most significant difficulty is to determine whether or not the specific land upon which the improvements are located is to be considered in a replacement cost. For example, a reservoir located on valuable "view" property could be located a short distance away on land having a fraction of the value.

Appraisal of land value is often determined by considering the "highest and best use" of the property. In this application, a considerable difference of opinion could arise over definition of the term, "highest and best use."

The reservoir, well no. 1, and shop building site are too small to be considered as a building site. It would appear that the value of this property would be determined by how much the adjacent property owners would pay for it.

An experienced real estate appraisor, familiar with local conditions and land values, should be retained to estimate values of the parcels discussed above. Real estate appraisal, and land appraisal in particular, is not generally considered as being within the scope of an engineering evaluation.

For purposes of this report, the values of the reservoir and shop sites have been assumed using "True Cash Value" appraisals of adjacent property as a base. Assumed values of the land are listed in Table 3.

TABLE 3
ASSUMED REPLACEMENT COSTS FOR LAND

<u>Site</u>	<u>Assumed Value</u>
1. Reservoir, Well No. 1 and Shop site	\$1200
2. Well No. 2, North side of C Avenue	0
3. Easements	2,000
4. Permits	800
	\$4000

The summary of replacement costs for the existing system are shown in Table 4.

TABLE 4

REPLACEMENT COST SUMMARY

Distribution & Storage System	213,400
Supply System	30,500
Equipment & Supplies	5,100
Buildings	3,000
Land (assumed values)	<u>4,000</u>
TOTAL REPLACEMENT COST	\$256,000

Neither physical condition nor depreciation has been considered in determining the replacement costs shown above. Both of these items are of primary importance in an evaluation of the Terrebonne Domestic Water District assets. Both items are virtually impossible to accurately determine. Replacement construction costs were estimated on the basis of most of the work being done by contractors.

Physical condition of the whole system is best determined by removal of sections of existing pipe for examination. From the examination and knowing the age of the pipe, a useful life may be assigned to the type of pipe. The age of most of the piping in the system is not known. Therefore, even if a few pipelines of known age were evaluated in this manner, the procedure could not be applied to the majority of the system.

The annual rate of depreciation assumed for the Terrebonne Domestic Water District is 3 percent for pipelines, 2 percent for reservoirs, and 7 percent for pumping equipment. Assuming the rates are valid, the serviceable periods are 33 years for pipelines, 50 years for reservoirs, and 15 years for pumping equipment. At these rates, pipelines installed prior to 1944 and pumping equipment installed before 1962 are now fully depreciated.

The 33-year life expectancy may be valid for some types of piping such as asbestos cement, PVC plastic, or cast iron, but does not appear to be an accurate useful life span for galvanized iron pipe. Even though iron pipe may continue to function beyond a 33-year period, its efficiency and dependability should be considered to last a maximum of about 20 years. Corrosive climatic and soil conditions can shorten the useful life to less than 20 years. Iron pipe accounts for approximately 70 percent of the total length of pipes and about 60 percent of the replacement costs of the systems.

DEPRECIATION. In order to compensate for the loss in value of the existing system due to depreciation, a proportion of the costs is subtracted. Although the validity of this method is questionable, the lack of information concerning the installation of the existing system leaves no better means to determine a depreciated value.

For purposes of this study, we have assumed that 10 percent of the distribution system is fully depreciated, 20 percent is considered to be 75 percent depreciated, 40 percent is 50 percent depreciated, and 30 percent is new or less than 25 percent depreciated. We have deducted the costs of those pipelines constructed between 1974 through 1977, and the well and reservoir costs, and will deal separately with these items later in this report. Table 5 provides a summary of the application of the above referenced percentages to the distribution system.

TABLE 5

DEPRECIATED COSTS
1977 DISTRIBUTION SYSTEM

Item	Replacement Cost	Depreciated Value
10 percent of distribution system	17,600	0
20 percent of distribution system	35,200	8800
40 percent of distribution system	70,500	35,250
30 percent of distribution system	52,900	39,675
	\$176,200	\$83,725

Assuming that the depreciated costs shown in table 5 are representative of the system as it exists, we can begin to assemble the data as required by the Secretary of State.

Table 6 provides data on the depreciation of the wells, reservoir and the pipelines constructed from 1974 to 1977.

TABLE 6

DEPRECIATED COSTS
WELLS, RESERVOIR, PIPELINES (1974-1977)

WELL NO. 1 (Constructed in 1968)	Value: July 1 of			
	1974	1975	1976	1977
Well & Casing (\$7600)(50 yrs.)	6,688	6,536	6,384	6,232
Pump & Electrical (\$3400)(15 yrs.)	1,972	1,734	1,496	1,258
Well House (\$3000)(25 yrs.)	2,280	2,160	2,040	1,920
Misc (\$3200)(25 yrs.)	2,432	2,304	2,176	2,048
	13,372	12,734	12,096	11,458
WELL NO. 2 (Constructed in 1936) (New Pump in 1977)				
Well Casing (\$6800)(50 yrs)	1,632	1,496	1,360	1,224
*Pump & Electrical (\$3500)(15 yr)	600	400	200	3,500
Well House (\$1000)(25 yr)	0	0	0	0
	2,232	1,896	1,560	5,724

RESERVOIR (Constructed in 1975)
Steel Tank (\$17,500)(50 yr)

300	17,500	17,150	16,800
<u>300</u>	<u>17,500</u>	<u>17,150</u>	<u>16,800</u>

PIPELINES

74 pipelines (4,000)	4,000	3,880	3,760	3,640
75 pipelines (4,000)	-	4,000	3,880	3,760
76 pipelines (4,000)	-	-	4,000	3,880
77 pipelines (7,700)	-	-	-	7,700
	<u>4,000</u>	<u>7,880</u>	<u>11,640</u>	<u>18,980</u>

Table 7 summarizes the system value of the Terrebonne Domestic Water District from 1974 through 1977.

TABLE 7

SYSTEM VALUE
TERREBONNE DOMESTIC WATER DISTRICT

ITEM	1974	1975	1976	1977	DEP Rate
DISTRIBUTION SYSTEM					
Prior to 1944	1,584	1,056	528	0	
Average 1953	11,968	10,912	9,856	8,800	(1056)
Average 1961	41,595	39,480	37,365	35,250	(2115)
Average 1969	44,436	42,849	41,262	39,675	(1587)
1974	4,000	3,880	3,760	3,640	(120)
1975	-	4,000	3,880	3,760	(120)
1976	-	-	4,000	3,880	(120)
1977	-	-	-	7,700	(231)
	<u>103,583</u>	<u>102,177</u>	<u>100,651</u>	<u>102,705</u>	
SUPPLY					
WELL NO. 1					
Well Casing	6,688	6,536	6,384	6,232	(152)
Pump & Elect.	1,972	1,734	1,496	1,258	(238)
Well House	2,280	2,160	2,040	1,920	(120)
Misc.	2,432	2,304	2,176	2,048	(128)
	<u>13,372</u>	<u>12,734</u>	<u>12,096</u>	<u>11,458</u>	
WELL NO. 2					
Well Casing	1,632	1,496	1,360	1,224	(136)
Pump & Elect.	600	400	200	3,500	(245)
Well House	0	0	0	0	(0)
Misc	0	0	0	1,000	(40)
	<u>2,232</u>	<u>1,896</u>	<u>1,560</u>	<u>5,724</u>	

STORAGE

RESERVOIR

$$\frac{300}{300}$$

$$\frac{17,500}{17,500}$$

$$\frac{17,150}{17,150}$$

$$\frac{16,800}{16,800}$$

(350)

The District can utilize the depreciation rates given in Table 7 in future years to determine the value of the system. When the line item is fully depreciated, that depreciation rate should be dropped from the calculations of system value. For example, those pipelines constructed prior to 1944 were depreciated at \$519 per year until 1977 when they were fully depreciated. From 1977 forward, this rate will not be used in the calculation. For those pipelines with an average installation date of 1953, they will be depreciated at \$1038 per year for 8 years at which time they will be considered to be fully depreciated and can be dropped from the calculations.

The determination of well values is variable as a result of the different depreciation rates for the components of the well. Table 7 has been set-up to provide you with the information necessary in determining the depreciated value on a year by year basis by applying the depreciation rates shown.

TERREBONNE DOMESTIC WATER DISTRICT
GENERAL CONSIDERATIONS

During the investigation of system valves of the Terrebonne Domestic Water District, we became aware of several areas of concern of the Board of Directors as relates to system operation. In an effort to assist you in finding answers to some of these questions, we have included this chapter on General Considerations.

Item 1

Included in Appendix A is a copy of Chapter 264 of the Oregon Revised Statutes which provides for the incorporation and authority granted to the Water District. The following provides a summary of several sections of ORS 264.

264.210 General powers of district.

The District has been granted broad powers in the administration of the domestic water supply system. These powers include establishing the rate, adopting rules and regulations, levying taxes, condemning property, and "other acts and things which may be requisite, necessary or convenient in carrying out the objects of the district..."

264.250. Power to borrow money and issue general obligation bonds, place of payment.

The District has the right to issue general obligation bonds "not to exceed one-half of one percent of the true cash value" of all taxable property within the district without the approval of the voters. The term of these bonds can extend to 30 years, with an interest rate not to exceed seven percent.

264.300 Tax assessment, levy, and collection.

The District has the right to collect taxes each year in an amount not to exceed "one-fourth of one percent (.0025) of the true cash value of all taxable property" within the district for purposes of carrying out the general operation of the district, and to levy taxes to repay the general obligation bonds discussed in 264.250 above.

264.306 Regulations concerning use of water and district property.

The District has adopted such rules and regulations, and we have included this document in Appendix B.

264.310 Rates for water furnished: contracts to sell surplus water.

The District has the right to "fix and collect the rates" for providing water service for "the type of use and according to the amount of water used."

264.312 Increasing water rates; hearing

This section requires the Board of Commissioners to hold a public hearing prior to increasing the rate for water service. At the hearing, the District must be able to show cause why it is necessary to increase the rate based on actual facts.

264.314 Shutting off water if delinquent in payment of water bill.

The District has the right to discontinue water service if the monthly charge is not promptly paid. The rules and regulations of the District define prompt payment as within thirty (30) days of the date of mailing.

264.320 Refund of cost of water main extension.

This section allows the District to reimburse property owners for the installation of main lines for up to 10 years if other water customers connect onto the extended line between the original location and the extended location.

As set forth in the rules and regulations, the District has adopted a slightly different policy in regards to main extensions which provides for the property owner digging and paying for the cost of trenching and the District paying the costs of furnishing and installing the pipe.

The District has utilized an agreement for such purposes in the past, and we have included a copy within this report in Appendix C.

264.410 thru 264.470 BOARD OF COMMISSIONERS

These sections direct the actions of the Board and set up the special elections terms of office, etc. The District adopted similar procedures in its' Bylaws as shown in Appendix D.

Item 2

Since the Oregon Revised Statutes provide for reimbursement of expenses in the extension of water mains over a 10 year period, we recommend that the District adopt a policy similar to the following to avoid future legal conflicts:

1. Property Owner makes written application for water service.
2. Board reviews request and makes a list of compliance items, ie. type of pipe, size, depth, location, bedding, cover, number of future connections anticipated, etc.
3. The District's Attorney should prepare a letter agreement outlining the compliance items set forth in 2 above.
4. The letter agreement should be delivered to the property owner requesting service for signature and return to the District with any charges or deposits.

5. If the property owner returns the agreement, the District may sign the agreement and notify the property owner by letter to proceed.
6. Upon receipt of application for service by a future property owner connecting to this line, the District would first notify the property owner that he must obtain a written release from the original property owner prior to the District being able to furnish water.

We would suggest that the District not install pipelines of less than 4-inches in diameter. Experience has shown in other water supply systems that pipelines less than 4-inches are often replaced prior to their complete depreciation as the result of demands placed upon the water system by a growing community.

Another matter which may affect your actions in this area has to do with Fire Protection. Hydrants are not considered to be capable for delivering the required water unless they are served by a 6-inch main.

Item 3

We suggest that the City discontinue the practice of installing water mains on both sides of a paved right-of-way. Although the initial costs may appear to be less, the cost of operation and maintenance is twice as great. Water services should be made individually and directly to a single main located in the right-of-way. The property owner requesting a hook-up to the water system should be made responsible for the actual cost of the District in installing the service, or if the District provides the service in their hook-up fees, these fees should be raised to cover the costs of installing services directly to the main line.

Item 4

The Terrebonne Domestic Water District should discontinue the practice of supplying water service to customers outside the District boundary. If property owners wish to be served by the District, we would suggest that they petition for annexation. This action will provide for an increase in tax evaluation for the District and will obligate these property owners to pay their fair share of future General Obligation Bonds that may be required.

Item 5

Unless a water line extends across the full length of an owners property who is requesting service, the District should request a main line extension as set forth in item 2 above.

All water services should be installed at right angles from the main-line to the property line. Minimum size of water service should be 3/4 inch for single-family residences. The size of the service line and meter will increase as the property owners demand for water increases. The development charges of the District should also increase with meter size.

TERREBONNE DOMESTIC
WATER DISTRICT

WATER SYSTEM PLAN

JANUARY 1979

Application No. G-9190

CHAIRMAN: GLEN WILLIAMS
SECRETARY: HELEN FROST
TREASURER: DEMPSEY FURGASON
BOARD MEMBER: ALEXANDER MORALES
BOARD MEMBER: WYLAND LEDBETTER

CONSULTANTS NORTHWEST

P.O. BOX 759 • REDMOND, OREGON 97755 • 548-1362
103 WEST 14TH • McMinnville, Oregon 97128 • 472-7926

TERREBONNE DOMESTIC
WATER DISTRICT

TABLE OF CONTENTS

<u>CHAPTER</u>	<u>TITLE</u>
CHAPTER 1:	INTRODUCTION
CHAPTER 2:	STUDY AREA CHARACTERISTICS
CHAPTER 3:	EXISTING CONDITIONS
CHAPTER 4:	FUTURE CONSIDERATIONS
CHAPTER 5:	RECOMMENDATIONS AND COST ESTIMATES
CHAPTER 6:	FINANCIAL BUDGETING AND SOURCES OF REVENUE
CHAPTER 7:	ADMINISTRATION

RECEIVED
APR 4 1979
WATER RESOURCES DEPT.
SALEM, OREGON

CHAPTER 1

INTRODUCTION

CHAPTER 1 INTRODUCTION

INTRODUCTION

The goal of any water system is to provide a constant supply of potable water at adequate pressure to the consumer. A secondary goal is to furnish necessary fire flows. In order to accomplish these goals, the system must grow and evolve with the community. The system must take in a reasonable amount of revenue to cover expenses and to finance capital improvements each year. In this report, every attempt has been made to balance these goals with realistic economy. The water report recommends a series of water facilities serving future developed portions of the community. These facilities can be built as the need arises and thereby avoid excessive immediate expenditures.

In compiling any kind of long-term study a certain degree of flexibility must be built into the final plan. This flexibility is important in Terrebonne's case because of the fluctuation in growth rate which has occurred in the past. This study should be looked at periodically in terms of the relationship between actual growth rate and the predicted growth rate.

ACKNOWLEDGEMENT

In the preparation of this report, many people helped play an integral part in putting together the final plan. We would like to give special thanks to the Terrebonne Domestic Water District Board of Directors and to Henry Bruffett, Bob Ricketts and Edith Potter for their time and effort in reviewing and giving input to various parts of this report.

AUTHORIZATION

This engineering report was authorized by the Terrebonne Domestic Water District in accordance with the agreement between the District and Consultants Northwest, originally dated January 16, 1978.

PURPOSE

The purpose of this report is to analyze the existing water system, determine improvements, and develop a long range plan to meet present and future demands.

SCOPE

1. Water requirements-determination of demands, future considerations, service area, fire demands, etc.
2. Supply Facilities-present and future sources, etc.
3. Distribution and storage-present and future system, future design criteria, recommended arterial and local systems, etc.
4. Cost estimates-cost estimates of proposed improvements.
5. Financial considerations-main extension policy, hookup fees, service connection costs, bonded indebtedness, assessed value and property taxes, federal assistance available, tentative financial schedules, and water rates.
6. Administration-rules and regulations, records, reports and maps.
7. Recommendations-resulting from study.

CHAPTER 2

STUDY AREA CHARACTERISTICS

CHAPTER 2

STUDY AREA CHARACTERISTICS

AREA CHARACTERISTICS

The area served by the Terrebonne Domestic Water District includes all of the land within the Southerly three quarters of Township 14 South, Range 13 East, Section 16 of the Willamette Meridian in Deschutes County, Oregon.

Climate in the area is characterized as semi-arid, with temperature extremes ranging from near 0 in the winter to over 100 degrees on the hottest summer days. Rainfall averages around 8.5 inches per year with the bulk occurring during the winter months of November-March.

The Terrebonne area is underlain by extensive basaltic lava flows that are believed to have originated in the Newberry Crater area south of Bend. The surface layer of lava in Terrebonne is approximately 200 to 300 feet in depth and contains numerous cracks and joints running through the formation. This lava overlays the Madras formation composed of sandstone and conglomerates. The Madras formation is the primary source of ground water in the middle Deschutes River basin.

Surface soil depths in the area range from 0 to 6 feet, with the greater soil depths occurring generally to the north, south and in some central portions. A major portion of the study area is characterized by basalt rock laying at, or less than two feet below the surface. The presence of this shallow bedrock indicates that a large percentage of trench excavation in Terrebonne must be accomplished by blasting this surface bedrock to the required depths.

POPULATION AND WATER USAGE PROJECTION

A. POPULATION

Extended population forecasts are often difficult to predict. This is especially true for the Terrebonne Domestic Water District where growth rates are inconsistent.

Several factors can effect the growth rate and ultimate population of the Service District:

1. If sewers become available, the size of buildable lots decrease.
2. Extension of water service boundaries.

3. Industrial growth in and around Terrebonne.
4. Land costs in surrounding areas.

For this report, we have assumed that land use will not change appreciably.

The Terrebonne Domestic Water District presently contains 480 acres within District Boundaries. It is estimated that approximately 300 acres of this area is undeveloped. Unless sewer service becomes available to the area, population density will not exceed 2.2 dwelling units. At full densification, total population within the Water District would be approximately 2880 people.

Present population within the District is estimated at approximately 750 people based on present water connections, and assuming an occupancy rate of 2.75 people per dwelling unit.

Actual growth in Deschutes County in the period 1970 to 1977 was 6.3 percent. It is probably unrealistic to assume that the high rate of growth experience in the last seven years will continue for the next 21 years because of economic recessions, high interest rates and other factors. To be consistent with local planning projections, a growth rate of 5 percent has been used within the study area, or approximately 14 water connections per year. This would result in a projected population within the District of 1590 people by the year 2000, or over half of the ultimate population of the District.

B. WATER USAGE PROJECTION

Along with population growth comes a corresponding increase in water consumption. Per capita consumption depends on many factors--industrial use, climate and economic considerations. Lawn and garden sprinkling may have a considerable influence on water demands.

Terrebonne Domestic Water District presently has 280 water connections. Using monthly production records for October 1978 as supplied by the District, average daily demand per capita is estimated at 75 gallons per day (GPD). Nationwide typical daily winter consumption is about 80 percent of the annual daily average, while summer consumption is 30 percent greater.

Most new homes have more water fixtures, modern appliances, spacious lawns and other conveniences that consume larger volumes of water. For purposes of this study, we have used an average daily rate of 120 gallons per capita per day (GPCPD), which is

commensurate with National averages.

C. FUTURE CONSUMPTION

As pointed out previously, consumption is very closely tied to population growth. In addition to more people requiring more water, domestic use increases at the rate of 1 gallon per person per day each year as the system grows. This condition is generally related to increased system losses and greater use of water in the home. The projected average daily water usage for the Terrebonne Domestic Water District is shown in Table 3.

Water demands are normally discussed in terms of flow rates. These flow rates can be described in any terms which specify a given volume of water delivered during a given time period, but are usually described in terms of millions of gallons per day (mgd) or gallons per minute (gpm). Flow rates used in analyzing and designing water systems are defined as follows:

Annual Average Demand. The total gallonage of water delivered to the system in a year.

Maximum Monthly Demand. The maximum gallonage of water delivered to the system during any single month.

Maximum Daily Demand. The maximum gallonage of water delivered to the system in any single day.

Peak Hour Demand. The maximum gallonage of water delivered to the system in any single hour.

Peak Hour Demand is generally considered to be twice the demand for the maximum day divided by 24 hours.

Source facilities are usually designed to supply the average demand on the day of Maximum Daily Demand. Peak Hour Demand in excess of the average Maximum Daily Demand is supplied from storage. Pump stations and transmission mains are designed and operated so reservoirs can be refilled during periods of low system demand during the maximum day.

TABLE 3
WATER USAGE PROJECTION

<u>YEAR</u>	<u>POPULATION</u>	<u>G.P.D./PERSON</u>	<u>DOMESTIC WATER SUPPLY</u> <u>GPD</u>
PRESENT	750	120	90,000
1980	834	122	101,748
1985	1044	127	132,588
1990	1254	132	165,528
1995	1464	137	200,568
2000	1590	142	225,780

D. FIREFLOW REQUIREMENTS

The Insurance Services Offices, in accordance with the standards set by the American Insurance Association recommends the quantity and duration of flow required for fire fighting. The ability of the water system to supply recommended fire flows under various conditions, in addition to supplying normal maximum daily demands, is a major consideration in setting fire insurance premiums for the area. The water system should be able to sustain flows for a period of time equal in hours to the gallons of required flow, with a 2-hour minimum time. Terrebonne should be able to produce 2,000 gallons per minute flow for a duration of 2 hours to obtain maximum fire protection benefits.

Terrebonne Domestic Water District sets in a Rural Fire District, and presently has a Class 8 rating. Because the fire rating is based on the entire Fire District's ability to provide fire protection, updating Terrebonne's water system would not necessarily reduce the fire rating. If a Class 7 could be obtained, the following insurance reductions could be expected.

Residential Class 8 to 7 - 28% reduction
Commercial Class 8 to 7 - 13% reduction

CHAPTER 3

EXISTING CONDITIONS

CHAPTER 3 EXISTING CONDITIONS

EXISTING WATER SYSTEM

A. PRESENT WATER SOURCE

The present system is supplied by two existing wells. Well No. 1 is located on the south side of C Avenue at 9th Street. It was drilled to a depth of 381 feet in 1968. The pump is driven by a 15 H.P. motor and the discharge has been measured by the District at 127 gallons per minute (G.P.M.). A chemical analysis is shown in Table 2.

Well No. 2 is located approximately 150 feet easterly of Well No. 1 on the North side of the C Avenue right-of-way. It was drilled to a depth of 387 feet. The pump is driven by a 15 H.P. motor and the discharge has been measured by the Water District at 127 G.P.M. A chemical analysis of this well is also shown in Table 2.

The two existing wells pump water from the regional water table (Madras Formation) which lies at depths ranging from 300 feet to over 500 feet below the ground surface between Bend and Madras. Although the regional water table has not been extensively tested or developed, the existing wells could be expected to produce 500 to 1000 G.P.M. with some modifications. A recent test of Well No. 1 showed 127 G.P.M. with a 5 foot drawdown after 1 hour. The well has a 2 minute recovery period.

The Water District presently has capabilities for supplying the total water demand on the day of maximum use. The existing records showed an average use of 75 gallons per person per day. Using 120 gallons per person per day, the District is capable of supplying 345,600 gallons per day to meet average day demands. Peak Hour Demands require flows approaching 500 gallons per minute at full development of the District.

B. EXISTING STORAGE FACILITIES

System storage is water held in reserve to meet Peak Hour Demands, fire flows, power outages, and etc. Adequate storage reduces the required water sources capacity. As previously discussed, an adequately designed storage capacity and source capacity will allow use of stored water during high demand periods and replenish storage during low demand periods.

Terrebonne Domestic Water District's 30,000 gallon reservoir provides the only reserve of stored water. The Oregon Health Division recommends storage equal to an average 3-day demand or 270,000 gallons.

The existing reservoir provides gravity service to the distribution system if well and pressure system power outage should occur. Due to the present elevation of the tank, inadequate pressures occur during these periods in a large area.

System pressures are generally maintained by a centrifugal pump and pressure tank located in Well House No. 1. At the present time, no emergency power generation facilities exist.

Recent modifications in the system piping at the well house have removed a serious restriction to the delivery of water to the distribution system.

C. EXISTING TRANSMISSION AND DISTRIBUTION SYSTEM

The existing distribution system consists of piping 4-inch in diameter and smaller. (See Figure I.) The age of most of the piping in the system is not known. Galvanized iron pipe is believed to comprise approximately 70 percent of the total length of the existing system.

TABLE 1
RELIABLE SOURCE CAPACITIES

<u>SOURCE</u>	<u>G.P.M.</u>	<u>G.P.D.</u>
Well No. 1	127	182,880
Well No. 2	127	182,880
TOTAL RELIABLE SUPPLY	254	365,760

TABLE 2
CHEMICAL ANALYSIS OF EXISTING WATER SOURCES

	WELL NO. 1 Mg/L	6/15/65	WELL NO. 2 Mg/L	5/23/55
Color	2.0		2.0	
Turbidity	5.5		1.0	
Solids, Total	227.0		230.0	
Solids, Volatile	110.0		—	
Carbon Dioxide	3.0		4.0	
PH	8.0		7.8	
Alkalinity, Total as CaCO ₃	150.0		137.0	
Hardness as CaCO ₃	107.0		120.0	
Calcium	18.7		13.0	
Magnesium	14.6		0.0	
Iron	0.01		0.05	
Manganese	0.03		0.0	
Arsenic	0.0		0.0	
Conductance (mc mho/cm)	335.0		—	
Chlorides	8.04		9.6	
Sodium	23.8		28.0	
Potassium	3.5		2.5	
Flouride	0.17		0.1	
Phosphates	0.120		0.2	
Sulfates	13.0		22.0	
Silicon	40.0		47.0	
Aluminum	0.02		0.0	
Nitrogen, Ammonia	0.14		—	
Nitrogen, Nitrite	0.02		—	
Nitrogen, Nitrate	1.56		—	

— Not Measured

D. STORAGE REQUIREMENTS

Storage serves several purposes. First, water from strategically located reservoirs will help meet the peak customer demands or fire demands, thereby reducing source and piping requirements. Secondly, storage tends to stabilize pressures. And thirdly, Reservoirs add a reliability to water system operation because the system can be operated with water from storage if the source is temporarily out of operation.

Generally, storage reservoirs are designed to be emptying during peak hours of water demand and to be refilling during hours of reduced demand. Refilling can be accomplished either by gravity flow or by pumping.

The Oregon Health Division recommends distribution storage equal to the average volume of water used in a 3 day period. The existing 30,000 gallon reservoir falls far short of these requirements. Table 4 provides an indication of the recommended storage requirements for Terrebonne Domestic Water District. These storage requirements are based upon the assumption that source capacities equal maximum day demands. Terrebonne Domestic Water District is in immediate need for additional storage facilities. Additional storage would provide for current and future system demands.

Since the District presently maintains two well sources, and considering that it would be unlikely for both wells to be out of service at one time, we recommend that an additional reservoir of approximately 150,000 gallons be constructed to meet current and future system demands.

As Table 4 indicates, with one well available to provide service at all times, a 500,000 gallon facility will satisfy the storage requirements for the Terrebonne Domestic Water District until the year 2000. The 150,000 gallon reservoir recommended herein would be adequate until the year 1985.

TABLE 4
RECOMMENDED STORAGE REQUIREMENTS

<u>YEAR</u>	<u>GALLONS OF STORAGE REQ'D</u>	<u>GALLONS OF STORAGE W/ONE WELL</u>
PRESENT	270,000	90,000
1980	305,000	120,000
1985	398,000	210,000
1990	496,000	310,000
2000	673,000	500,000

CHAPTER 4

FUTURE CONSIDERATIONS

CHAPTER 4 FUTURE CONSIDERATIONS

WATER SOURCE

The water source must be capable of meeting the system's maximum day demand. Based on the Maximum Day Demand projected in this report through the year 2000, the present source appears to be adequate until the year 1990. We have assumed that the District will install the needed reservoir and pressure system to meet peak demand periods, and providing that fire protection does not become of major importance within the District.

Table 5 provides a summary of source requirements for domestic flows through the year 2000.

TABLE 5
ADDITIONAL WATER SUPPLY REQUIRED

<u>YEAR</u>	<u>REQ'D DOMESTIC SUPPLY</u> G.P.M.
PRESENT	84
1980	140
1985	230
1990	*278
2000	312

Due to the great depth of the regional water table in the Terrebonne area, we would recommend that additional water sources be developed through modifications to the existing wells. Before existing wells are modified however, a well test should be performed on each well to verify accepted yields to size need modifications.

STORAGE FACILITIES

As recommended in the previous Chapter, a 150,000 gallon reservoir would meet the current and future needs of the District to the year 1985 when considered with other recommendations of this report.

The new reservoir should be constructed at the same location as the existing reservoir, as they would be close to the source location. The District should begin negotiations with the School District to obtain a 100 x 100 foot parcel immediately adjacent to Well No. 1. This property would appear to be of sufficient size for construction of the initial 150,000 gallon reservoir and the future 350,000 gallon reservoir, along with an adequate pumping station.

PUMPING STATION

The District distribution system should be revised to work entirely from a booster pump system as they have exceeded the capacity of the present pressure tank. The pump station should be provided with emergency power generation to assure that adequate water is available during periods of power outage.

The station would initially be equipped with two booster pumps each capable of delivering 100 to 150 gallons per minute. Provisions should be included for future installation of one 300 gallon per minute pump. If fire protection is to be considered, the District will have to include provisions for a 1500 gallon per minute pump at the pumping station.

With this revised system, the well supply would discharge to the storage tanks with distribution system pressures and flow provided by one booster pump. As system demands increased, the second booster pump would start up to meet peak demands.

DISTRIBUTION SYSTEM

Presently there are 4-inch mains and smaller running throughout the Terrebonne Domestic Water District. Although these mains do not meet the requirements set forth by the State of Oregon, they apparently are in good condition and should provide adequate service for the near future.

We would recommend that the Terrebonne Domestic Water District not install pipelines less than 6-inches in diameter for distribution mains in the future. Laterals may be 4-inches in diameter,

As the diameter of a pipeline decreases, the resistance to flow increases and the less the water that can be made available at any one point. The smaller the diameter of the pipeline, the higher the costs for pumping of water from the well source due to the greater amount of pumping resistance.

The following equivalent pipe relationships generally will provide equal carrying capacities.

One 10-inch pipe = two 8-inch pipes
= four 6-inch pipes

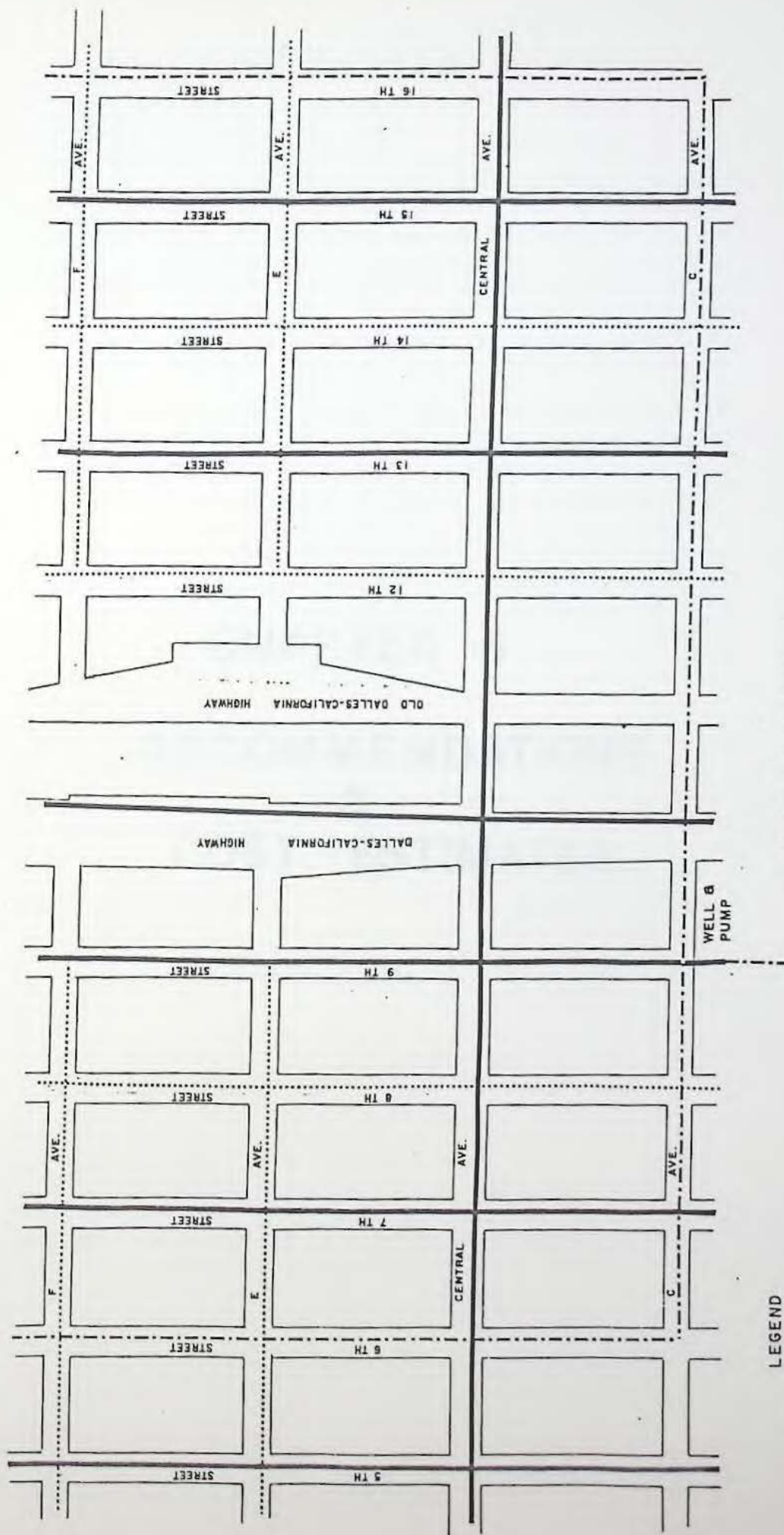
One 8-inch pipe = two 6-inch pipes
= six 4-inch pipes

One 6-inch pipe = three 4-inch pipes

Smaller pipelines can be effective when constructed in parallel to supply a particular location with a specific amount of water.

Valves should normally be spaced no farther than 600 feet apart in the distribution system so as to isolate small sections of the pipeline for repair rather than shutting down the entire system. This is extremely effective when the system is fed from two directions with a looped configuration.

Figure II shows a typical distribution grid. The District should adopt a gridding policy for future pipeline extensions and replacement sizing as existing pipe needs updating. The location and size of future mainlines will be dependent on the District's policies concerning fire protection. Fire hydrants are normally located on waterlines no smaller than 6-inches in diameter.



LEGEND

- 6" PIPE
- - - 4" PIPE (EXISTING)
- 4" PIPE

TERREBONNE WATER DISTRICT
TYPICAL DISTRIBUTION GRID SYSTEM

CONSULTANTS NORTHWEST
P.O. BOX 759, 813 W. HIGHLAND
REDMOND, OREGON 97755
PHONE 548-1362

CHAPTER 5

RECOMMENDATIONS
&
COST ESTIMATES

CHAPTER 5
RECOMMENDATIONS AND COST ESTIMATES

CONSTRUCTION SEQUENCE

This study investigated the existing Terrebonne Domestic Water District water system, determined its weaknesses, and proposed improvements that will allow the District to provide high-quality water service as growth continues. The improvements should not all be constructed at once, nor should most of the construction be delayed for too long. Some improvements are more necessary than others; some virtually useless unless preceded by others.

Two construction phases are proposed for improvements recommended through the year 2000. Phase A includes the period of 1979 through 1985; Phase B, the period between 1985 and 2000.

PHASE A

Consists of a 150,000 gallon reservoir and pressure pumping station. Although not specifically mentioned in terms of dollars in this report, we also recommend that the District adopt a policy of installing future distribution mains of not less than 4-inches in diameter.

PHASE B

Consists of construction of an additional 350,000 gallon reservoir, revisions to the pumping station, and upgrading the capacity of the two existing wells.

COST ESTIMATES

The cost estimates presented in this report are based upon current material and construction costs in western Oregon. The estimated costs assume that a private contracting firm will undertake the work for all projects except pipelines. The project cost of each of the improvements includes administrative and engineering costs and an allowance for contingencies.

COSTS OF RECOMMENDED IMPROVEMENTS

Table 6 tabulates the project cost of the proposed system improvements to the year 2000. All costs are based on 1979 dollars.

It is anticipated that the District will spend approximately \$6000 to \$10,000 per year for pipeline improvements through the year 2000.

New pipelines to be built in various portions of the District will be generally financed by developers. Source improvements, pump station and reservoir costs are assumed to be the responsibility of the District.

TABLE 6
PROPOSED SYSTEM IMPROVEMENTS

<u>SYSTEM IMPROVEMENT</u>	<u>FACILITY CAPACITY</u>	<u>PROJECT COST</u>
<u>se A</u>		
System Reservoir	150,000 gallons	\$ 60,000
Booster Pump Station	2-100 to 150 GPM	17,000
System Modifications	4 and 6 inch-1000 lf.	6,000
Emergency Generator	Wells and Pumps	6,000
Control System	Wells and Pumps	3,000
		\$ 92,000
<u>se B</u>		
System Reservoir	350,000 gallons	80,000
Booster Pump Station	1-300 GPM	8,000
Upgrading Well Supply	200 GPM each	12,000
		\$100,000

CHAPTER 6

FINANCIAL BUDGETING & SOURCES OF REVENUE

CHAPTER 6
FINANCIAL BUDGETING
AND
SOURCES OF REVENUE

SCOPE

The improvement program outlined will require substantial sums of money to implement. Most of the funds for the major capital improvements will be derived from bonds. Other monetary funds will be obtained from new customers requesting service connections and main extensions, or from developers planning entire subdivisions. Much of the financing needed to repay the debts incurred by major construction programs and to operate and maintain the system will come from the sale of water and from property taxes.

This chapter summarizes the results of the financial portion of this investigation. Estimates of future revenue, operating and maintenance expenses, debt service requirements, and a brief description of their projections are developed. A tentative financial schedule containing a pro forma flow of funds is provided for the study period. These figures are estimates and therefore are subject to fluctuation. They have been prepared using existing historical data on the District's operating experiences, and incorporate information from similar facilities operating in similar ways.

BONDED INDEBTEDNESS

The mechanics of financing improvements by the sale of bonds are relatively simple. A cost estimate is used to determine the amount of the bond issue; an election is then held. If the issuing of bonds is approved by the voters, the bonds are offered for sale, and the money for construction obtained before the project is undertaken.

The statutory limitation on the amount of bonds which a district can issue for utility construction is 10 percent of the true cash value of the district. General obligation bonds are usually retired by revenues from the operation of the utilities or from property taxes or both.

The assessed value of all taxable property in the District on July 1, 1978 was \$3,974,104. Projected assessed value for the

1978-79 fiscal year is \$4,600,000. If the District should elect to collect taxes as set forth in ORS. 264.300, an estimated \$11,000 per year could be made available for general operation and maintenance and Capital improvements.

Should the District choose to use property taxes as authorized in ORS. 264.250 for financing proposed improvements, an increase in the tax rate of \$0.50 per \$1,000 of assessed value would result in \$2,300 annually. The \$2,300 would be the approximate debt service on \$26,000 financed at 6.0 percent interest over a 20-year repayment period. Maximum borrowing capability of the District at this time is approximately \$350,000 to \$400,000.

WATER RATES

The District will receive approximately \$32,000 during fiscal year 1978-79 from water sales. This amount will pay for operation of the system, including maintenance and some main replacement. Construction for developers and installation of new services are essentially paid for by those requesting these facilities.

The District's water rates as of January 1, 1979 are as follows:

<u>Meter Size (inches)</u>	<u>Minimum Monthly Rates*</u>
Residential	\$ 6.00
Commercial	12.00

*Includes 700 cubic feet. All over 700 cubic feet at \$0.75 per 100 cubic feet.

We recommend that the District adopt a water rate based on the systems ability to supply water upon demand. The following sets forth these recommendations.

<u>Meter Size (inches)</u>	<u>Minimum Monthly Rates*</u>
5/8 or 3/4	\$ 6.00
1	12.00
2	30.00
above 2	At discretion of Board thru special agreement

CONNECTION FEES

The District presently charges \$450 for a water connection irregardless of size. These charges cover the direct and indirect costs for a new services. Additional connections require additional system improvements. For instance, the District needs to increase its storage capacity by about 1,000 gallons to provide 3 days storage

for a new residential service. The cost for this storage at \$0.35 per gallon is \$350.

We recommend an increase in the meter connection charge dependent upon size. Proportional charges based on meter capacity would result in a connection fee as set forth below:

<u>Service Connection Size</u>	<u>Charge</u>
5/8 or 3/4	\$ 500
1"	800
2"	1300
above 2"	At discretion of Board thru special agreement

TENTATIVE FINANCIAL SCHEDULE

The tentative financial schedules shown in Table 7 and 8 represent a pro forma flow of funds over the next 10 years. Assumptions about the future revenue and expenditures are noted at the bottom of the schedule.

We have assumed that Capital Expenditures as recommended by this report would be paid for through a tax levy as authorized under ORS. 264.300. Surplus funds shown would be available to meet the costs of inflation and/or emergency expenditures.

TABLE 7
TERREBONNE DOMESTIC WATER DISTRICT
PROJECTED CASH FLOW STATEMENT⁽⁴⁾

	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
OPERATING INCOME:												
Water Sales ⁽¹⁾	27,000	28,000	29,500	31,000	33,000	35,000	38,000	41,000	45,000	48,000	53,000	58,000
Connection Fees ^{(1) (2)}	3,000	4,400	4,700	5,000	5,500	5,500	6,000	6,000	6,000	6,000	6,000	6,000
Miscellaneous	200	300	400	500	500	600	600	600	700	700	700	700
Basic Tax Levy	0	0	11,000	13,000	15,000	17,500	20,000	22,000	24,000	26,000	28,000	30,000
Total Oper. Income	30,200	32,700	45,600	49,500	54,000	58,600	64,600	69,600	75,700	80,700	87,700	94,700
OPERATING EXPENSE:												
Personal Services ⁽³⁾	10,500	12,200	14,800	15,500	17,300	19,000	21,900	23,800	25,800	27,800	28,800	30,000
Supply Source	1,200	1,500	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600
Administration ⁽³⁾	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,500	2,500	2,500	2,500	2,500
Inventory Supplies	5,100	4,000	4,000	4,000	5,000	5,000	5,000	6,000	6,000	6,000	7,000	7,000
Construction Costs ⁽⁵⁾	14,500	6,000	6,000	9,000	9,000	9,000	9,000	9,000	9,000	10,000	10,000	10,000
Special Services	3,500	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Miscellaneous	200	400	600	800	1,000	1,000	1,000	2,000	2,000	2,000	3,000	3,000
Total Oper. Expense	36,800	30,800	34,200	38,400	41,700	43,700	46,900	51,100	53,300	56,500	59,700	61,100
Funds Available for Debt Service & Capital Improvements	-6,600	1,900	11,400	11,100	12,300	14,900	17,700	18,500	22,400	24,200	28,000	33,600

1. Assumes 4 percent annual growth
2. New connection charge schedule
3. Assumes 6% increase in expenses
4. Assumes 1978 dollars, no inflation
5. Expenditure for main replacement

TABLE 8
TERREBONNE DOMESTIC WATER DISTRICT
CASH FLOW AND CAPITAL STATEMENT

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Operating Income	32,700	45,600	49,500	54,000	58,600	64,600	69,600	75,700	80,700	87,700	94,700
Operating Expense	30,800	34,200	38,400	41,700	43,700	46,900	51,100	53,300	56,500	59,700	61,100
Excess Revenues	1,900	11,400	11,100	12,300	14,900	17,700	18,500	22,400	24,200	28,000	33,600
Debt Service											
1980 Series(92,000)	—	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
1985 Series(100,000)	—	—	—	—	—	—	9,000	9,000	9,000	9,000	9,000
Balance for Contin.	1,900	3,400	3,100	4,300	6,900	9,700	1,500	5,400	7,200	11,000	16,600
Debt Service Ratio	—	1.43	1.39	1.54	1.86	2.21	1.09	1.32	1.42	1.65	1.98
Capital Statement											
Capital Available:											
Operations	1,900	3,400	3,100	4,300	6,900	9,700	1,500	5,400	7,200	11,000	16,600
Bond Sales	—	92,000	—	—	—	—	100,000	—	—	—	—
Accumulated Surplus	4,800	6,700	10,100	13,200	17,500	24,400	34,100	35,600	41,000	48,200	59,200
Total Capital Funds	6,700	102,100	13,200	17,500	24,400	34,100	135,600	41,000	48,200	59,200	75,800
Capital Expenditures											
Reservoir	—	60,000	—	—	—	—	80,000	—	—	—	—
Booster Pump Station	—	17,000	—	—	—	—	8,000	—	—	—	—
System Modification	—	6,000	—	—	—	—	12,000	—	—	—	—
Emergency Generator	—	6,000	—	—	—	—	—	—	—	—	—
Control System	—	3,000	—	—	—	—	—	—	—	—	—
Total Capital Exp.	0	92,000	0	0	0	0	100,000	0	0	0	0
Surplus	6,700	10,100	13,200	17,500	24,400	34,100	35,600	41,000	48,200	59,200	75,800

CHAPTER 7

ADMINISTRATION

CHAPTER 7 ADMINISTRATION

GENERAL

The Terrebonne Domestic Water District is presently regulated by Chapter 264 of the Oregon Revised Statutes. To clearly define provisions of various sections of the Statutes, we recommend that the District adopt a current set of "BYLAWS." We have included a proposed statement of Bylaws at the back of this Chapter for your consideration. We would suggest that the District obtain legal assistance in drafting the final form of this document. A complete copy of ORS 264 is included in the Appendix for your use.

RULES AND REGULATIONS

As set forth in ORS 264.306, the District "may adopt and promulgate regulations concerning the use of water and the property of the district." We recommend that the District adopt the "Rules and Regulations" as set forth at the back of this Chapter which would replace those now being used. We again suggest that legal assistance be obtained in drafting of the final documents.

BYLAWS

BYLAWS
OF
TERREBONNE DOMESTIC WATER DISTRICT

ARTICLE I
BOARD OF COMMISSIONERS

1. The Board of Commissioners of the Terrebonne Domestic Water District shall consist of five (5) commissioners, each elected by a majority of the qualified electors of the Terrebonne Domestic Water District.

2. The commissioners shall hold meetings at such times and places within the Terrebonne Domestic Water District as they may determine upon.

3. The meeting of the Board of Commissioners, unless otherwise so determined by the Board of Commissioners, of the Terrebonne Domestic Water District shall be held at the Ladies Pioneer Hall, Terrebonne, Oregon on the first Monday of every month; but should a legal holiday fall on said Monday, then upon the Tuesday immediately following the first Monday of each month.

4. Regular meetings shall be held on said date at 7:30 p.m.

5. Upon the first regular meeting in January, the commissioners shall choose from their number a chairman, secretary, and treasurer, who shall hold their offices until the first regular meeting in January of the following year, or until their successors are elected and qualified. These officers shall have, respectively, the powers and shall perform the duties usual in such cases and shall be known as president, secretary, and treasurer of the Terrebonne Domestic Water District.

6. The majority of the commissioners at any regular meeting shall constitute a quorum to do business and in the absence of the chairman any other member may preside at any meeting.

7. The treasurer as such shall give bond to the corporation as condition for the paying over to him of all monies coming into his hands as such treasurer, the amount of which bond shall be fixed by the commissioners, based upon the amount of money in the hands of the treasurer or likely to come into his hands as such. All expense incident to such bond shall be paid by the Terrebonne Domestic Water District out of its general funds.

8. The commissioners shall employ such engineers, superintendents, mechanics, clerks or other persons as they may find requisite, necessary or convenient in carrying on any work of the corporation at such rate of remuneration as they may deem just, and pay the expenses actually incurred by any one or more commissioners in the services of the corporation.

9. The commissioners may provide life insurance and retirement or pension plan for the employees of the Terrebonne Domestic Water District, providing the insurer issuing such policy is licensed to do business in the State of Oregon.

10. No commissioners or other officer of the Terrebonne Domestic Water District shall be interested directly or indirectly in any contract with or on behalf of the corporation.

ARTICLE II

GENERAL ELECTION

1. A regular election shall be held within the Terrebonne Domestic Water District each year for the election of one commissioner to succeed each commissioner whose term expires on the following July 1 and to elect commissioners to fill any vacancies that may then exist.

2. At all regular and special elections of the Terrebonne Domestic Water District, the voters shall have the qualifications of the electors of this state and shall have resided in the territory embraced within the Terrebonne Domestic Water District for at least thirty (30) days preceding the election.

3. Candidates for commissioner of the Terrebonne Domestic Water District shall be qualified voters in the State of Oregon and shall have resided within the Terrebonne Domestic Water District for at least ninety (90) days preceding the date of the election.

4. Each candidate for commissioner of the Terrebonne Domestic Water District, before the name of said candidate may be placed by the secretary upon the ballot, must present to the secretary a written petition to be placed upon the ballot signed by ten voters or 10% of the voters of the Terrebonne Domestic Water District, whichever is less, said voters being qualified voters in the State of Oregon and having resided within the Terrebonne Domestic Water District for a period of ninety (90) days prior to said election date. Said petitions shall be presented to the secretary of the Terrebonne Domestic Water District for a period not less than sixty days prior to the date of the regular election.

5. Upon receipt of a petition signed by a proper number of qualified voters of the Terrebonne Domestic Water District, the secretary shall ascertain whether the candidate for commissioner has resided within the Terrebonne Domestic Water District for ninety (90) days prior to the election and is at present a qualified voter of the State of Oregon. If the secretary finds that the candidate's petition contains the signatures of ten qualified voters or 10% of the voters within the Terrebonne Domestic Water District, whichever is less, that the candidate has resided within the Terrebonne Domestic Water District for a period of not less than ninety (90) days prior to the date of said regular election and that the candidate is a presently qualified voter in the State of Oregon, the secretary shall place the name of said candidate upon the sample and official ballot.

6. Sample ballots shall be placed thereafter, not less than ten days prior to the date of election, in three conspicuous public places within the Terrebonne Domestic Water District.

7. No person shall be elected a commissioner of the Terrebonne Domestic Water District, whose name did not appear upon said posted sample ballot.

8. The election shall be conducted, unless otherwise specified, pursuant to Oregon Revised Statutes.

ARTICLE III SPECIAL ELECTIONS

1. The commissioners at any regular meeting of the Board of Commissioners may, by resolution, call a special election of the electors of the district to vote upon any proposal.

2. After passing of the resolution by the commissioners, the secretary shall post notice of said special election in three conspicuous places within the Terrebonne Domestic Water District for a period of not less than ten days prior to the holding of the special election.

ARTICLE IV VACANCIES

Should a member of the Board of Commissioners miss three consecutive meetings, without justifiable excuse, a vacancy shall be declared in the office of said absent commissioner and the Board of Commissioners will thereupon by a majority vote of the total number of remaining commissioners fill said vacancy until the first regular meeting in January following, when that office shall be filled for the remaining part of the term of said vacating commissioner by a commissioner elected by a majority vote of the electors of the corporation, at the regular election of the Terrebonne Domestic Water District preceding said January meeting.

ARTICLE V RECALL

1. Every commissioner of the Terrebonne Domestic Water District is subject to recall by the legal voters of the Terrebonne Domestic Water District,

2. In order to recall a commissioner of the Terrebonne Domestic Water District, a petition stating concisely the reasons for recall must be signed by twenty-five percent (25%) of the legal voters of the Terrebonne Domestic Water District demanding recall of the commissioner.

3. If the commissioner shall offer his resignation, after said petition has been signed, it shall be accepted.

4. If the commissioner does not resign within five (5) days after receiving a copy of said petition from the secretary of the Board of Commissioners, the Board of Commissioners of the district shall at its next regular meeting call a special election to be held not later than twenty-five (25) days after the date of filing of the petition with the secretary.

5. At such special election there shall be submitted to the legal voters of the district the question of whether the commissioner should be recalled and a successor elected to serve the remainder of the term for which the commissioner was originally elected.

6. On the ballot at such special election there shall be printed in not more than two hundred (200) words the reason for demanding the recall and also in not more than two hundred (200) words any defense of his official conduct offered by the commissioner whose recall is sought.

7. At recall elections, candidates to succeed the commissioner sought to be recalled may be nominated by being named in the recall petition or they may be nominated by a petition signed by thirty (30) legal voters which shall be filed with the secretary within ten days after the filing of the recall petition with the secretary.

ARTICLE VII

OPERATION

1. All monies of the corporation shall be deposited with the United States National Bank of Oregon, Redmond Branch, at Redmond, Oregon or any other bank insured by Federal Deposit Insurance which hereafter may be designated by a majority of the commissioners, and shall be withdrawn or paid out only when previously ordered by a majority vote of the Board of Commissioners of the Terrebonne Domestic Water District and upon checks signed by the treasurer and countersigned by the president, or in the president's absence or inability to act, then by the secretary.

2. A receipt or voucher clearly showing the nature and items covered by each check drawn shall be kept on file by the treasurer.

3. Annual reports shall be made and filed by the President, secretary and treasurer.

4. At least once in each year in July a full and completely itemized statement of receipts and expenditures shall be published in the Redmond Spokesman, said publication to be paid for by the Terrebonne Domestic Water District,

5. All proceedings of the Board of Commissions of the Terrebonne Domestic Water District shall be entered into a record book. All books, maps, plans, documents, correspondence, vouchers, reports and other papers and records pertaining to the business of Terrebonne Domestic Water District shall be carefully preserved and shall be open to inspection as public records.

ARTICLE VIII

BUDGET

1. The Board of Commissioners of the Terrebonne Domestic Water District shall appoint a committee of five (5) legal voters who reside within the Terrebonne Domestic Water District as a budget committee in April.

2. Said budget committee shall prepare a budget covering anticipated revenues and expenses in an itemized form; said budget to be posted in a public place during the month of May.

3. Said budget shall then be submitted to the Board of Commissioners of the Terrebonne Domestic Water District at their annual meeting in June. Upon approval of a budget by the Terrebonne Domestic Water District, one copy of such shall be sent to the Clerk of Deschutes County, one copy to the Treasurer of the State of Oregon, one copy to the Secretary of State of the State of Oregon and the original to be kept permanently within the Terrebonne Domestic Water District Records.

ARTICLE IX

MISCELLANEOUS

1. The Secretary shall keep written minutes of the meetings of the commissioners of the Terrebonne Domestic Water District and shall enter such minutes of said regular or special meetings in the general records of the Terrebonne Domestic Water District, which shall be carefully preserved and shall be open to inspection as public records.

2. The Board of Commissioners of the Terrebonne Domestic Water District shall be the final determiners of all business transactions between the Terrebonne Domestic Water District and other communities, water districts, individuals or corporations, private or municipal.

3. Said Bylaws may be altered, changed, modified or amended by a majority vote of the Board of Commissioners of the Terrebonne Domestic Water District held after a public hearing, notice of the place and time of which is posted for not less than ten days prior to such hearing.

4. No provision may be altered in the Bylaws or rules and regulations of the Terrebonne Domestic Water District, even with approval of the Board of Commissioners of the

Terrebonne Domestic Water District, if said change, alteration of amendment is of such effect that the proposed bylaw will be contrary to the provisions of Oregon law,

5. Oregon Revised Statutes, Chapter 264 is incorporated within these Bylaws as if set out in full.

Adopted this _____ day of _____, 1979, by the Board of Commissioners of the Terrebonne Domestic Water District upon majority of the members present and in conformance with Oregon Revised Statutes, Chapter 264.

GLENN WILLIAMS, CHAIRMAN

ALEXANDER MORALES, BOARD MEMBER

HELEN FROST, SECRETARY

WYLAND LEDBETTER, BOARD MEMBER

DEMPSEY FURGASON, TREASURER

**RULES
&
REGULATIONS**

RULES & REGULATIONS
TERREBONNE DOMESTIC WATER DISTRICT
(DRAFT)
JANUARY 1979

RULES & REGULATIONS

WHEREAS, the Terrebonne Domestic Water District is a domestic water supply corporation organized pursuant to the laws of the State of Oregon, and whereas the Board of Commissioners having approved the following regulations concerning the use of water and corporation property, and whereas Oregon Revised Statute provided for the establishment of such regulations;

NOW THEREFORE, the following rules and regulations shall govern the use of the water and property of the Terrebonne Domestic Water District:

GENERAL

1. A majority of the board of commissioners may refuse to supply any building place or premises with water where the user fails after five days written notice to comply with the rules and regulations of said water district contained herein. Written notice shall be by registered mail and shall be deemed to be given where it is deposited in the United States Post Office properly addressed with postage prepaid.

2. At any time when the household supply of water of the Terrebonne Domestic Water District is being jeopardized by non household use of water, the District by and through a majority of its commissioners, can order the non household use of water to be immediately discontinued.

3. The Terrebonne Domestic Water District may require a reasonable cash deposit to insure payment for use or rent of water to be furnished by the corporation to, in, or upon any building, place or premises.

4. The corporation shall charge consumers for water furnished and fix and collect the rates therefor. Rates charged may be fixed and classified according to the type of use and according to the amount of water used. Any contract entered into by the corporation with individuals, corporations or associations, other than domestic users, shall provide for immediate cancellation whenever no surplus supply of water exists over and above any and all demands of domestic users. The corporation may also contract with other communities, water districts, individuals or corporations, private or municipal, to supply, furnish and sell them surplus water on such terms and conditions and at such rates as the commissioners may deem advisable.

5. All water rates and charges shall be established by Resolution of the Board of Commissioners and shall remain in force and shall not be subject to change, except after the holding of a public hearing by the Terrebonne Domestic Water District at a place designated by the Board of

Commissioners; after Notice thereof shall be given by inclusion of a notice of the time, date and place of said public hearing in water bills sent to the consumers by the District during a period of thirty days prior to the date of the hearing.

6. The Terrebonne Domestic Water District will exercise reasonable diligence and care to furnish and deliver a continuous and sufficient supply of potable water to the customer and to avoid any shortage or interruption of service. The District will not be liable for high or low pressure conditions, chemical, bacteriological or physical conditions, interruption, or shortage of insufficiency of supply or any loss or damage occasioned thereby. The use of water upon the premises of the customer shall be at the risk of the customer and the responsibility of the District shall cease at the point of delivery of water. The point of delivery shall be at the customer's side of the meter, or in cases of privately owned water lines, the point of delivery shall be at the end of the District's service line.

In case of shortage of supply, the District reserves the right to give preference in the matter of furnishing service to customers as in its judgment shall be for the best interest of the Terrebonne Domestic Water District from the standpoint of public convenience or necessity.

The District, or its duly authorized agents and employees, shall at all reasonable times have the right to enter or lease the customer's premises for any purpose properly connected with the service of water to the customer.

The District, whenever it shall find it necessary or convenient for the purpose of making repairs or improvements to its system, shall have the right to suspend temporarily the deliver of water. Repairs or improvements will be prosecuted as rapidly as is practicable and, so far as possible, at such times as will cause the least inconvenience to the customers. Whenever possible, and as time and circumstances permit, all customers affected by such interruptions in service will be notified prior to such interruptions. The District shall not be liable for any damage or loss caused by temporary interruption of service or the failure to notify the customer of such discontinuance.

APPLICATION FOR SERVICE

A. INFORMATION REQUIRED

Each applicant for water service must sign a written application therefor on standard forms provided by the District,

B. CHANGES IN CUSTOMER'S USE FOR EQUIPMENT

Customers making any material change in the size, character or extent of the equipment or operations utilizing water service, or whose change in operations result in a large increase in the use of water or results in the application of a different rate schedule, shall immediately give the

District written notice of the nature of such change and, if necessary, amend their application,

C. APPLICATION AS A CONTRACT

In case the premises of the applicant are connected for water service as a result of acceptance of his application, the application given in writing shall be considered as a contract in which the applicant agrees to abide by such rates and regulations as are in effect at the time of the signing of the application or as may be adopted, changed or modified thereafter by the Board of Commissioners to pay all bills promptly.

D. SPECIAL CONTRACTS

The Board of Commissioners reserves the right to make special contracts, the provisions of which are in the best interests of the Terrebonne Domestic Water District. Special contracts shall be in writing and signed by the proper customer and the Board of Commissioners. Special contracts, other than applications, may be required prior to service, under the following conditions:

1. When the applicant's requirements for water are unusual or large.
2. When construction of special extensions are necessary.
3. For service to other municipalities, lawfully organized water districts, public water utilities, or non-profit corporations organized for the distribution of water.

The Board of Commissioners may require the applicant to furnish security satisfactory to the District to protect the District against loss and to guarantee the performance of the provisions of special contracts.

SERVICE CONNECTIONS AND METERS

A. SERVICE CONNECTIONS

1. Size and Location:

The District will furnish and install a service of such size and at such locations as the applicant requests, provided such requests are reasonable and that the size requested is one that is listed by the District. The minimum size shall be 5/8 x 3/4 inch. The meter location will be as near the main as practicable, normally at the property line. The District, in consultation with the property owner, will determine the location of the service line.

2. Installation Charges:

Charges for service connections are payable in advance and shall be established by the District in

published schedules.

3. Meters:

Meters will be installed near the termination of the service connection, and will be included in the cost of installation.

The District reserves the right to determine the size and type of meter to be installed for each installation. The size and type of meter will depend on the rate of flow of water through the meter and the total water consumption.

No rent or other charge will be paid by the District for a meter or other facilities, including housing and connections, located on a customer's premises.

All meters will be sealed by the District at the time of installation and no seal shall be altered or broken except by one of its authorized employees.

Where meters are at present, or may be installed within a building, the District will not be held responsible for damage from water seepage through the wall or for damage from leaking meter, pipe, or fittings. In the event that the meter is installed in the customer's line, the District will not be responsible for maintenance or replacement of the customer's line between the service connection and meter.

4. Change in Location of Meters or Service Connections:

If at a later time it becomes necessary to move, raise or lower an existing service connection, or meter, the cost of such work will be billed to the customer.

5. Changes in Size of Meter or Service Connection:

Permanent changes in the size of meters on existing services will be charged to the customer.

6. Ownership:

The service connection and meter, whether located on public or private property, are the property of the District, and the District reserves the right to repair, replace and maintain them, as well as to remove them upon discontinuance of service.

7. Maintenance:

The service connection, including the meter, will be repaired and maintained by the District at its expense, but the District is not responsible for the installation and maintenance of water lines beyond the end of its service connections.

8. Discontinuance of Service:

If the customer desires service discontinued, either on a temporary or permanent basis, notification shall be given the Recorder's Office so that the meter may be removed. Unless such notification is given, the applicable minimum usage charge will continue.

9. Customer Control Valves

The customer shall install a suitable valve, as close to the meter location or point of delivery as practicable, the operation of which will control the water supply to his premises. The District's curb stop or control valve is the District's property and it shall be unlawful for any person or agent of any person, other than authorized employees of the District, to operate or tamper with any valve or curb stop, for the purpose of turning water on or off. The District shall hold the person responsible for the cost of repairing any damage to it's property caused by such operation or tampering.

Any customer desiring discontinuance of service shall turn off his water supply at his own control valve and the District will not be responsible or liable for any damages or injuries sustained through failure to properly drain the water from the premises.

BILLS AND PAYMENT

A. RENDERING OF BILLS

1. Meters:

Meters will be read at regular intervals for the preparation of regular bills, and as required for the preparation of opening bills, closing bills and special bills. During the months November to March the meters may not be read because of possible freezing conditions, and the amount shall be determined by averaging the amount of use prior whenever it is impractical to read,

The District will keep an accurate account on its books of the readings of meters and such account so kept shall be prima facia evidence of use of the water service by customers and shall be the basis on which all bills are computed for meter service,

2. Frequency of Billing:

Bills will be rendered monthly unless otherwise

specified by the District.

B. PAYMENT OF BILLS

Bills are due and payable to the District on the fifteenth day of each month and become delinquent ten (10) days thereafter. When bills are delinquent, the District will demand that the full amount be paid. Failure to do so will result in water service being discontinued, and a penalty must be paid before service may be restored. Customers turning on water at a discontinued service, for failure to pay for a water billing, will have their meter removed and must pay all billings, penalties, plus a re-installation cost before service will be resumed.

In instances where a customer does not expect to be available for the payment of his bill between the fifteenth and twentyfifth of a month, he shall make arrangements for the payment in advance, thus avoiding the need for having his water turned off and the imposition of the fine for failure to pay on time.

C. COMBINED BILLING OF SEPARATE METERS

The District may refuse to serve an establishment through two or more meters. Authorization for more than one meter at a single establishment is subject to review and concurrence in the need thereof by the District.

DISCONTINUANCE OF SERVICE

A. ON CUSTOMER REQUEST

A customer may have his water service discontinued by giving written notice to the District reasonable well in advance of the desired date of discontinuance.

If notice is not given, the customer will be held responsible and will be required to pay for water service to the date the District has learned that the customer has vacated the premises or otherwise has discontinued service.

If, at the customer's request, water is shut off or turned on more than once in a month's time, during regular working hours, a minimum charge will be made for the labor involved by servicemen and the office force for each such shut-off or turn-on.

B. NON-PAYMENT OF BILLS

Any amount due the District for labor, materials or miscellaneous items will be billed separately, but if bills therefore become delinquent, such charges shall be transferred to the regular account and, if necessary, water service may be discontinued until such amounts owing for labor, materials or miscellaneous time are paid.

C. UNSAFE APPARATUS

The District may refuse to furnish water and may discontinue service to any premises where plumbing apparatus, appliances, or equipment using water are dangerous, unsafe or not in conformity with any laws or ordinances.

The District does not assume liability for inspecting apparatus on the customer's premises or property. The District does reserve the right of inspection, however, if there is reason to believe that unsafe apparatus is in use.

D. SERVICE DETRIMENTAL TO OTHERS

The District may refuse to furnish water and may discontinue service to any premises where the demand is greatly in excess of past average or seasonal use, and where such excessive demands by one customer are or may be detrimental or injurious to the service furnished to other customers.

DAMAGES AND CUSTOMER RESPONSIBILITY

A. RESPONSIBILITY FOR CUSTOMER EQUIPMENT

The customer shall, at his own risk and expense, furnish, install and keep in good and safe condition all equipment that may be required for receiving, controlling, applying and utilizing water, and the District shall not be responsible for any loss or damage caused by the improper installation of such equipment, or the negligence, want of proper care or wrongful act of the customer or any of his tenants, agents, employees, contractors, licensees or permittees in installing, maintaining; using, operating or interfering with such equipment.

No reduction will be made in charges for water service for lack of supply by the stoppage of customer's lines from freezing or other cause.

The District shall not be responsible for damage to property caused by spigots, faucets, hot water heaters, tanks, appliance, or other equipment, resulting from the discontinuation of service for non payment of bills or emergency repairs.

B. DAMAGE TO DISTRICT PROPERTY

The customer shall be liable for any damage to a meter or other equipment or property owned by the District which is caused by an act of the customer or his tenants, agents, employees, contractors, licensees or permittees, including the breaking or destruction of seals and

locks by the customer on or near a meter.

The District shall be reimbursed by the customer for any such damage promptly on presentation of a bill.

If a meter is damaged by hot water from the customer's line, the customer shall be required to pay for the cost of repairs of the meter and for the loss of revenue occasioned by the damage, and the customer shall immediately make the necessary corrections in his own water lines to prevent further damage to the meter.

MAIN EXTENSION POLICY

When application is made to serve District water to a new development, the developer will pay for the installation of a water system in accordance with District standards. The distribution system may be oversized at the discretion of the District in order to serve additional hookups in the future. Additional hookups in this case refers to property owners fronting the new main. As additional customers hook up in the future, they will reimburse the District an amount as shown in Table 1 based on the footage they own fronting on the new main. The District will then reimburse the developer this same amount. This reimbursement cost is to help cover oversizing costs that the developer initially had to incur to pay for his development. This reimbursement policy shall be considered effective for a period of ten years from the date of the agreement as signed by the Developer and District. It should be understood that the developer is responsible and will pay for all costs of the water system within the boundaries of his development.

SERVICE PREFERENCE AND RESPONSIBILITY TO SERVE

A. APPLICATION FOR SERVICE

The Board of Commissioners reserves the right to act on each application for service to customers outside of the boundaries of the Terrebonne Domestic Water District on its merits and without regard to any other past or present application or service. The District will determine the method of extension of mains and the size of main services and meters in each case.

B. PRORATION OF SURPLUS WATER

In the event of shortage of surplus water, the District may, in its sole discretion, regulate the use of its surplus water between its various customers outside of the boundaries of the Terrebonne Domestic Water District. The method of such regulation and the quantity of surplus water available to each customer outside of the District shall be at the sole discretion of the Board of Commissioners. In no event shall the District be obligated to, at any time, limit, restrict or

regulate the supply or use of water within the District in order to provide surplus water for customers outside of the water service boundaries of the Terrebonne Domestic Water District.

C. TEMPORARY DISCONTINUANCE

The Board of Commissioners may, at its sole discretion, temporarily discontinue the delivery of water to customers outside of the District when, in its judgment, it is necessary.

D. CONDITION OF SERVICE

The District does not warrant its present or future water supply or make any representation as to the water that may now or hereafter be available to it or to customers of the water system.

The District shall have the right to change the quality and/or source of its water supply and, in its sole discretion, to treat its water supply with flourides, chlorine or otherwise, according to the Safe Water Drinking Act, PL 93-523.

E. FAILURE TO SUPPLY

The District shall be under no obligation to customers outside of the water service boundaries of the Terrebonne Domestic Water District. If failure to supply water to the aforementioned customers causes damage to the pipes and appurtenances of the District, the District shall not be obligated to repair them to provide water to customers outside the water service boundary of the District.

STANDARD PROCEDURE FOR IMPROVEMENT PLANS

1. Submit two sets of blue-line prints of the proposed water improvements, one copy of the final tract map, one complete set of improvement plans and one copy of the Subdivider's Engineer's estimate, together with the Plan Processing Fee as follows:

- a. A fee of one percent of the first \$140,000 of estimated improvement costs with a minimum fee of \$300.

2. The District shall then analyze the plans and materials as submitted and will prepare and send a copy of comments and a marked up set of plans to the developer. Any easements necessary must have deeds submitted for checking at this time. If requested, revised plans shall be prepared and submitted to the District.

3. Upon receipt and checking of all documents, the District shall prepare a resolution for Board of Commissioners action containing the following material for approval of the plans:

- a. Approved water improvement plans.
- b. Easement deeds and permits.
- c. Subdivider's financial statement and/or guarantee.
- d. Any special contracts for service.

4. When all requirements have been completed in accordance with the approved plans, the District will prepare a resolution recommending acceptance of the improvements. Results of such action shall signify the delivery of water by the District to the system constructed upon delivery of the original Grant Deed executed by the developer conveying the system to the Terrebonne Domestic Water District.

RULES AND REGULATIONS CONCERNING USE OF PROPERTY OF THE TERREBONNE DOMESTIC WATER DISTRICT

1. All tools, equipment, pipes and other items purchased with the funds of the Terrebonne Domestic Water District shall be and constitute the property of the Terrebonne Domestic Water District.

2. No tools, equipment, pipes, or other items belonging to the Terrebonne Domestic Water District shall be loaned, rented, given or otherwise transferred to any other community, water district, individual or corporation, private or municipal, except upon written resolution of a majority of the members of the board or commissioners of the Terrebonne Domestic Water District.

3. All important papers shall be placed in safety deposit box No. 665, in the United States National Bank, Redmond Branch, located in Redmond, Oregon.

4. All checks must be signed by two members of the Terrebonne Domestic Water District, as provided in the bylaws of the District.

5. Compensation of the board of commissioners of the Terrebonne Domestic Water District:

(a) Each commissioner of the Terrebonne Domestic Water District shall receive as compensation for services rendered, water without charge each month that said commissioner serves as a member of the board of commissioners, but said sum shall not exceed an amount of \$72.00 per year.

(b) Any person who of necessity is required to travel for a purpose solely beneficial to the district shall be paid at a rate to be established and approved by the Board of Commissioners to reimburse him for any expenses necessarily incurred on such a trip.

6. The meetings, elections and other functions of the Terrebonne Domestic Water District shall be governed by the provisions of the Oregon Revised Statutes, Chapter 264, and bylaws adopted by the board of commissioners of the Terrebonne Domestic Water District.

Adopted this _____ day of _____, 1979, by the Board of Commissioners of the Terrebonne Domestic Water District upon majority of the members present, and in accordance with Oregon Revised Statutes, Chapter 264.

GLENN WILLIAMS, CHAIRMAN

ALEXANDER MORALES, BOARD MEMBER

HELEN FROST, SECRETARY

WYLAND LEDBETTER, BOARD MEMBER

DEMPSEY FURGASON, TREASURER

TABLE 1

REIMBURSEMENT COST/LF*

ACTUAL OVERSIZING - SIZE (DIA. IN INCHES)

	6	8	10	12	14	16	18	20
6	0	1.25	2.25	3.75	4.00	4.25	5.25	6.25
8	—	0	1.25	2.50	2.75	3.00	4.75	5.25
10	—	—	0	1.25	1.75	2.00	3.00	4.00
12	—	—	—	0	.50	.75	1.75	2.75
14	—	—	—	—	0	1.00	2.00	3.00
16	—	—	—	—	—	0	1.00	2.00
18	—	—	—	—	—	—	0	1.00
20	—	—	—	—	—	—	—	0

* Per Lineal Foot of Property Fronting one side of New Main

**WATER FEES
&
CHARGES**

RESOLUTION
TERREBONNE DOMESTIC WATER DISTRICT

ESTABLISHMENT OF WATER FEES
AND CHARGES

The Board of Commissioners of the Terrebonne Domestic Water District do hereby resolve as follows:

WHEREAS, The Board of Commissioners have determined that rates and charges for water service must be assessed to defray the costs of operation, maintenance, service connection, capital expenditures, and other costs of normal operation; and

WHEREAS, The Board of Commissioners have held a public hearing this ____ day of _____, 1979, to consider such rates and charges in accordance with Oregon Revised Statutes 264.312.

NOW THEREFORE, BE IT RESOLVED, That the Board of Commissioners do hereby adopt the following schedule of rates and charges which shall apply to all customers of the Terrebonne Domestic Water District, until such time as these rates and charges shall be amended by Resolution of the District.

SCHEDULE OF RATES
AND CHARGES

MONTHLY WATER RATE

The District's monthly minimum water rate shall be based on the size of service to the property.

<u>Meter Size (inches)</u>	<u>Monthly Minimum Rate*</u>
5/8 or 3/4	\$ 6.00
1	10.00
2	20.00
above 2	To be determined by District upon application

*Includes 700 cubic feet-All over 700 cubic feet to be charged at a rate of \$0.0075 per cubic foot.

Churches, granges, and lodge halls, which are not used as residences, shall be charged a flat rate of \$6.00 per month. Ladies Pioneer Hall shall receive water without charge, as long as it is used as a regular meeting place of the Terrebonne Domestic Water District.

CONNECTION FEES

Upon submission signature and approval of an application for water service, the following connection fees shall be paid to the District based on the size of the service required:

Service Connection and/or
Meter Size (inches)

5/8 or 3/4

1

2

above 2

Connection

Fee

\$ 500.00

800.00

1300.00

To be determined by
District upon application

DEPOSITS

The Terrebonne Domestic Water District shall not require any property owner within the territory of the District to pay a deposit at such time when said property is first supplied with water. However, a reasonable cash deposit may be required by vote of a majority of the Board of Commissioners to insure payment of the use and rent of water to be furnished by the District to, in, or upon any building, place or premises of any property owner at any time after the water is first supplied.

Every person who is renting any building, place or premises to which Terrebonne Domestic Water District is to supply water for rent or use, is required to deposit \$25.00 with the Terrebonne Domestic Water District and pay the first months minimum in advance. Any sum so deposited shall be returned upon discontinuance of use or rent of water to be supplied by the Terrebonne Domestic Water District. Any bills unpaid at the time of such discontinuance of use or rent of said water will be paid from any such sums advanced or on deposit with the Terrebonne Domestic Water District before said sums advanced or deposits are returned.

SPECIAL FEES

Turn-on Charge - \$5.00

Turn-off Charge - \$5.00

Re-installation Charge - \$75.00

If a user does not use his water supply for thirty days or longer, he may upon application to the District have the water supply turned off. There will be no charge for the time that the water supply is turned off. However, said supply shall be turned on only after payment of a Turn-on Charge, and other provisions of these rules and regulations as they may apply.

Adopted this _____ day of _____, 1979, by the Board of Commissioners of the Terrebonne Domestic Water District upon majority of the members present and in conformance with Oregon Revised Statutes, Chapter 264.

GLENN WILLIAMS, CHAIRMAN

ALEXANDER MORALES, BOARD MEMBER

HELEN FROST, SECRETARY

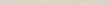
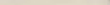
WYLAND LEDBETTER, BOARD MEMBER

DEMPSEY FURGASON, TREASURER

RECEIVED
APR 4 1970
WATER RESOURCES DIV
SALT LAKE CITY



LEGEND

- | | | | |
|---|-------------|---|-------------|
|  | 4" PIPE |  | 1 1/4" PIPE |
|  | 3" PIPE |  | 1" PIPE |
|  | 2 1/2" PIPE |  | 3/4" PIPE |
|  | 2" PIPE |  | WATER VALVE |
| | 1 1/2" PIPE | | PRV |
|  | 6" PIPE |  | SERVICE |

TERREBONNE WATER SYSTEM

SCALE 1"= 200		DATE REVISED FEBRUARY, 1979		JOB 77-18.0	
DSN		CONSULTANTS NORTHWEST PO. BOX 759, 907 W. HIGHLAND REDMOND, OREGON 97756 PHONE 548-6136		SHEET NO	
DRN MDH				OF	
CKD AHK				1	



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508

February 24, 1982

Terrebonne Domestic Water District
PO Box 31
Terrebonne, OR 97760

REFERENCE: File No. G-9190

Gentlemen:

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your Permit numbered G-8542 was received. We also have your check in the amount of \$20.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1986.

Sincerely,

Bruce A. Estes, Supervisor
Survey/Certificate Section

BAE/jw

Enclosure

Application for Extension of Time

RECEIVED

TO THE WATER RESOURCES DIRECTOR OF OREGON

FEB 8 1982

WATER RESOURCES DEPT
SALEM, OREGONI, Terrebonne Domestic Water District

Name

P. O. Box 31

Mailing Address

Terrebonne

City

OR

State

97760

Zip

record owner of water right permit No. G-8542, do hereby request that the time in which to:

☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1980 be extended to October 1, 1986, and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1981, be extended to October 1, 1986.

I have accomplished the following described works and/or purchase and installation of equipment necessary to the use of water under said permit:

within the past year See Attached Sheet

prior to this past year See Attached Sheet

and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED)

(If additional space is required, attach separate sheet)

Glen R. Williams

(If signing for a corporation please identify your title)

Glen R. Williams, Chairman

Dated February 3, 1981

MAIL COMPLETED APPLICATION AND STATUTORY FEE
OF ~~\$10.00~~ TO:

20.00

Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

2-8-82
\$20.00
#29534

B-C
10-1-86
BCE

BC-01

April 4, 1979

Application No. **G 9190**
Permit No. **G 8542**
Chairman

Name Terrebonne Domestic Water Dist., Glenn Williams

Address P.O. Box 31 Terrebonne, OR 97760

Assigned

Address

Beginning construction MAY 30 1980

Completion of construction OCT 1 1980

Extended to 10-1-84 10-1-91; 10-1-96, 10-1-2001

Complete application of water OCT 1 1981

Extended to 10-1-84 10-1-91; 10-1-96, 10-1-2001

NUMBER

8022

Check 100 — Mo _____ Cash _____

___ Surface Application

___ Reservoir Application

___ Ground Water Application

___ Transfer Application

___ PFO Request

___ Research

___ Hydroelectric Fees

___ Copying

___ Assignment

☒ Extension of Time

___ Protest

___ Other

Dallas

G-9190

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **7485**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: Terrebonne Domestic
BY: Water District

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 96435 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 100.00

0417 WRD MISC CASH ACCT

ADJUDICATIONS

\$

PUBLICATIONS / MAPS

\$

OTHER: (IDENTIFY)

\$

OTHER: (IDENTIFY)

\$

REDUCTION OF EXPENSE

CASH ACCT.

\$

PCA AND OBJECT CLASS

VOUCHER #

0427 WRD OPERATING ACCT

MISCELLANEOUS

0407 COPY & TAPE FEES

\$

0410 RESEARCH FEES

\$

0408 MISC REVENUE: (IDENTIFY)

PCA Extension 66111

\$ 100.00

TC165 DEPOSIT LIAB. (IDENTIFY)

\$

WATER RIGHTS:

0201 SURFACE WATER

EXAM FEE

\$

0202

RECORD FEE

\$

0203 GROUND WATER

\$

0204

\$

0205 TRANSFER

\$

0206

\$

WELL CONSTRUCTION

EXAM FEE

\$

0219

LICENSE FEE

\$

0218 WELL DRILL CONSTRUCTOR

0220

\$

LANDOWNER'S PERMIT

OTHER (IDENTIFY)

0437 WELL CONST. START FEE

0211 WELL CONST START FEE

\$

CARD #

0210 MONITORING WELLS

\$

CARD #

OTHER (IDENTIFY)

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS

\$

0467 HYDRO ACTIVITY

LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)

\$

0231 HYDRO LICENSE FEE (FW/WRD)

\$

HRDRO APPLICATION

\$

RECEIPT #

7485

DATED:

10-11-96 BY: C. Richards

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **7485**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: Temperance District
BY: Water District

APPLICATION	G-9190
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 96-455 ☒ OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 100.00

0417 WRD MISC CASH ACCT

ADJUDICATIONS

\$

PUBLICATIONS / MAPS

\$

OTHER: (IDENTIFY)

\$

OTHER: (IDENTIFY)

\$

REDUCTION OF EXPENSE

CASH ACCT.

\$

PCA AND OBJECT CLASS

VOUCHER #

0427 WRD OPERATING ACCT

MISCELLANEOUS

\$

0407 COPY & TAPE FEES

\$

0410 RESEARCH FEES

\$ 100.00

0408 MISC REVENUE: (IDENTIFY)

\$

TC165 DEPOSIT LIAB. (IDENTIFY)

WATER RIGHTS:

EXAM FEE

RECORD FEE

0201 SURFACE WATER

\$

0202

\$

0203 GROUND WATER

\$

0204

\$

0205 TRANSFER

\$

0206

\$

WELL CONSTRUCTION

EXAM FEE

LICENSE FEE

0218 WELL DRILL CONSTRUCTOR

\$

0219

\$

LANDOWNER'S PERMIT

0220

\$

OTHER (IDENTIFY)

0437 WELL CONST. START FEE

0211 WELL CONST START FEE

\$

CARD #

0210 MONITORING WELLS

\$

CARD #

OTHER (IDENTIFY)

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS

\$

0467 HYDRO ACTIVITY

LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)

\$

0231 HYDRO LICENSE FEE (FW/WRD)

\$

HRDRO APPLICATION

\$

RECEIPT # **7485**

DATED: 10-11-96

BY: C. Rinal

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

TDWD Distribution System Map

Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

- Well 1**
Well locations as dimensioned on Figure 1.
- M** Well Meter associated with each well.
- Approximate location of Reservoirs
- Water District Boundary

WATERLINE LEGEND

- 12" WATERLINE
- 10" WATERLINE
- 8" WATERLINE
- 6" WATERLINE
- <= 4" WATERLINE



EXPRESS
PERMITS

1/1/2027



Received by OWRD

APR 17 2025

Salem, OR

0' 500' 1000'
SCALE: 1" = 500'



CASCADE
GEOTECHNICAL ENGINEERING
360.907.4162
cascadegoengineering.com

TDWD Distribution System

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY:
J. Newton

DRAWN BY:
R2D

DATE:
APRIL 2025

PROJECT NO.
CG 1031-101

FIGURE
2

POA LOCATION MAP

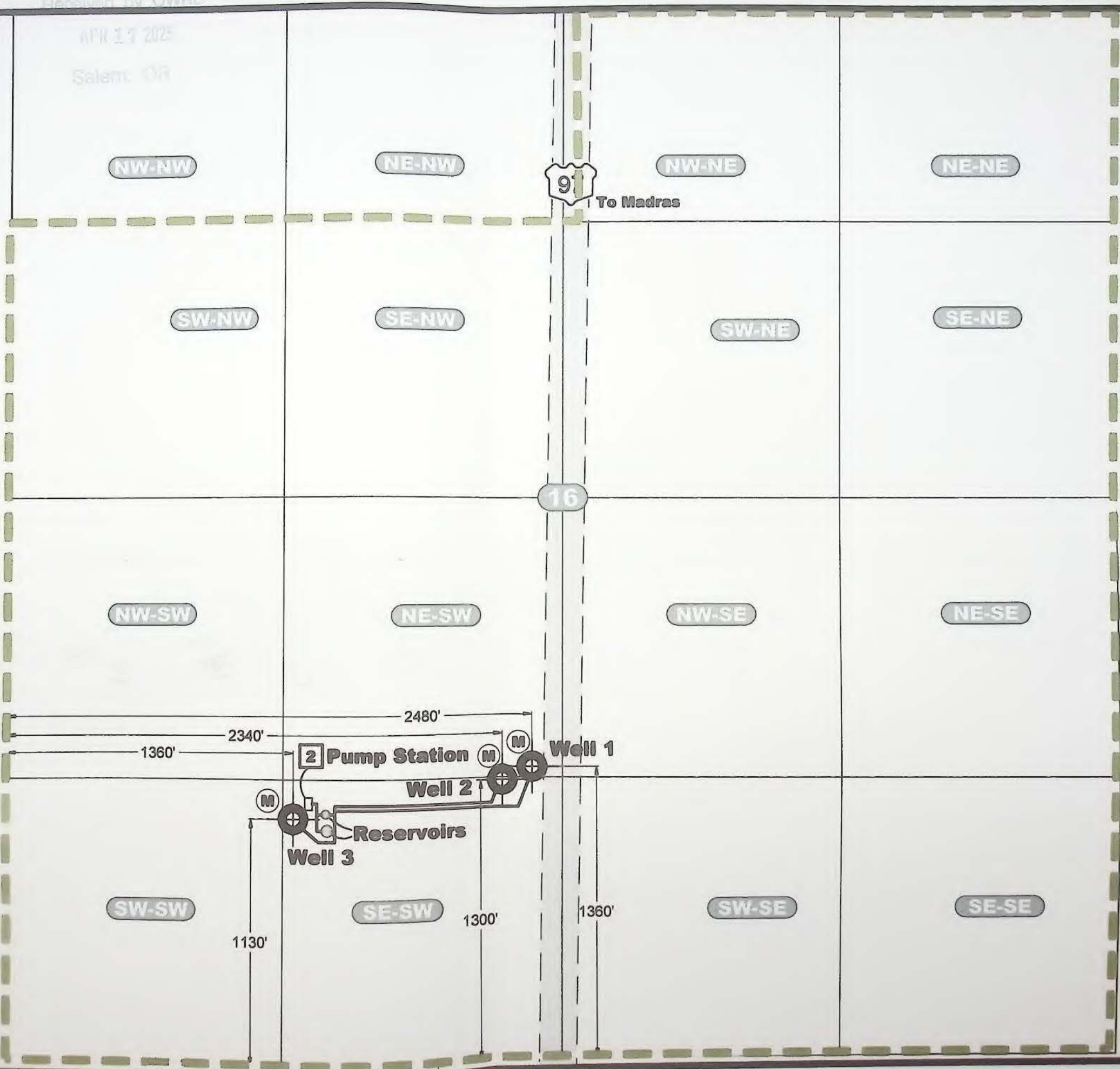
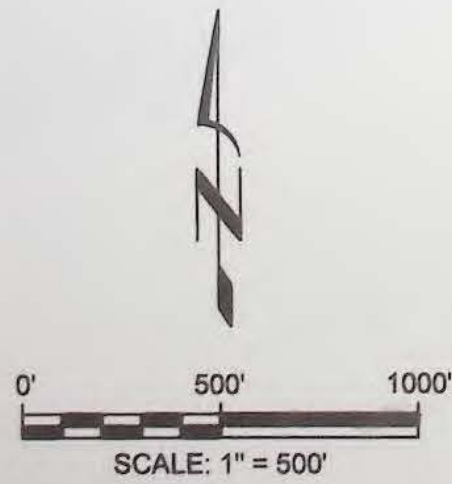
Located in South Half of NW Qtr and
South Half of NE Qtr and also
Located in SW Qtr and SE Qtr
of Section 16, T.14.S, R.13.E, W.M.
Deschutes County, Oregon

NOTES

1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.
2. Approximate location of Pump Station, pump station water feeds TDWD's distribution system.

LEGEND

-  **Well 1**
Well locations as dimensioned
-  Well Meter associated with each well.
-  Approximate location of Reservoirs
-  Water District Boundary



POA Location Map

Claim of Beneficial Use Map - Application G-9190 - Permit G-8542
Terrebonne, Deschutes County, Oregon

DESIGNED BY: J. Newton	DRAWN BY: R2D	DATE: APRIL 2025	PROJECT NO: CG 1031-101	FIGURE 1
---------------------------	------------------	---------------------	----------------------------	-------------