

FILE#: G 12568

CITY OF DUNDEE
PO BOX 220
DUNDEE, OR

97115

Application No. G12568Permit No. G12685

Certificate No. _____

Stream Index, Page No. 2

02-440-0720

17 Charlotte Square

Date filed _____

Priority _____

Action suspended until 025

"max/db"

Return to applicant _____

Date of approval _____

CONSTRUCTIONDate for beginning AUG 21 1997Date for completion OCT 1 1999Extended to 10-1-2025Date for application of water OCT 01 1999Extended to 10-1-2025**PROSECUTION OF WORK**

Form "A" filed _____

Form "B" filed _____

Form "C" filed _____

FINAL PROOF

Blank mailed _____

Proof received _____

Date certificate issued _____

FEES PAID

Date	Amount	Receipt No.
6-7-91	200. ⁰⁰	75135
8-20-96	150. ⁰⁰	5576
Ext. 12-27-04	250.00	71991
9-24-25	1,170. ⁰⁰	146093
9-24-25	345.00	146098
	Cert. Fee	

FEES REFUNDED

Date	Amount	Check No.

ASSIGNMENTS

Date	To Whom	Address	Volume	Page

REMARKS

APPLICATION CHECK-OFF LIST

RECEIPT POSTED
ACK LETTER SENT

INT

DATE

STREAM INDEXED & STREAM CODED
CONTENTS MARKED/STAMPED
SCENIC WATERWAY NOTED
FILE FOLDER/CALENDAR CARD TYPED
APPLICATION COPIED
MAPS COPIED

Application: G-12568

Permit: G-12685

Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

Applicant/Permit
Holder(s)

City of Dundee
ATTN: Brandon Hamilton, Interim City Manager
520 SW 5th St.
Dundee, OR 97115

Proposed Completion Date: 10-1-2050

☐ WRIG...Money Received on: 9-24-25

☐ Extension Specialist ...

☐ Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

☒ Tonya Miller...

☒ Recent Assignment (Check WRIS for Update)

☒ Publish on Public Notice (initial 30-day comment): Date of
notice 9.30.25

☒ Update WRIS Database

☒ In the "PNotice Date" field... Enter the date the Extension Application
was published on the Public Notice.

☒ In the "Ext Filed" field... Enter the date the Extension Application was
received.

☒ Yes or ☐ No: Return file to Extension Specialist after PN returned 9.29.25

NOTES:

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A

SALEM, OR 97301-4172

(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **146098**

INVOICE # _____

RECEIVED FROM: City of Dundee
BY: _____

APPLICATION	<u>6-12568</u>
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 39455 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 345.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	\$
_____	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:

0201	SURFACE WATER	\$	0202	\$
0203	GROUND WATER	\$	0204	\$
0205	TRANSFER	\$		

WELL CONSTRUCTION

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

0200 OTHER (IDENTIFY) COPIES \$ 345.00

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:

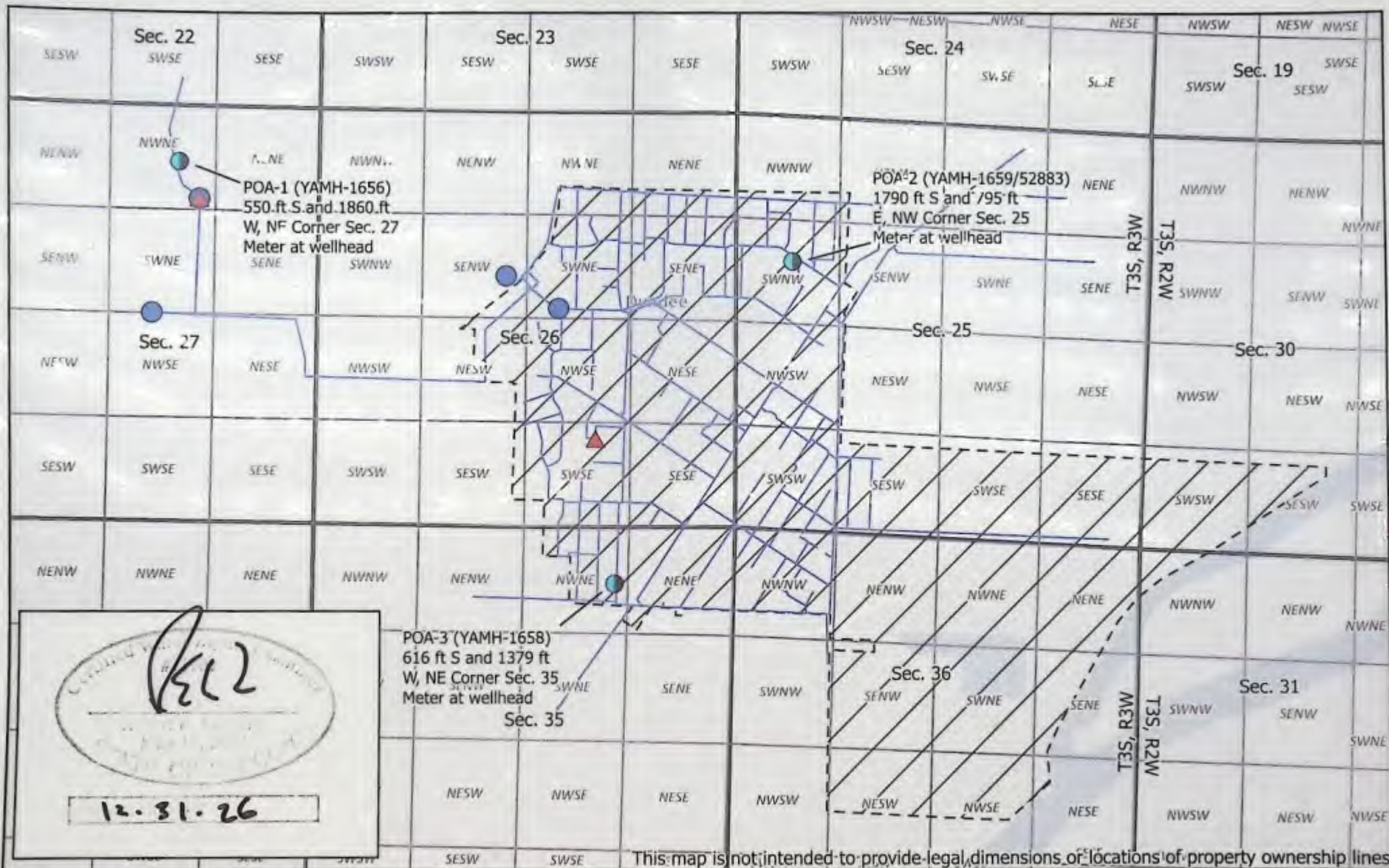
146098

DATED:

9-24-25

BY:

[Signature]



CWM-H2O

Complete Water Management



311 B Avenue, Suite P
Lake Oswego, Oregon 97034
(503) 954-1326

Claim of Beneficial Use Map
Permit G-12685
Application G-12568

1	DATE	AUTH	DRAFT
No.	Date	By	Revisions



0 1,000 2,000 Feet
1:20,000

Proj#: 2434001
City of Dundee
City of Dundee
PO Box 220
Dundee, OR 97115

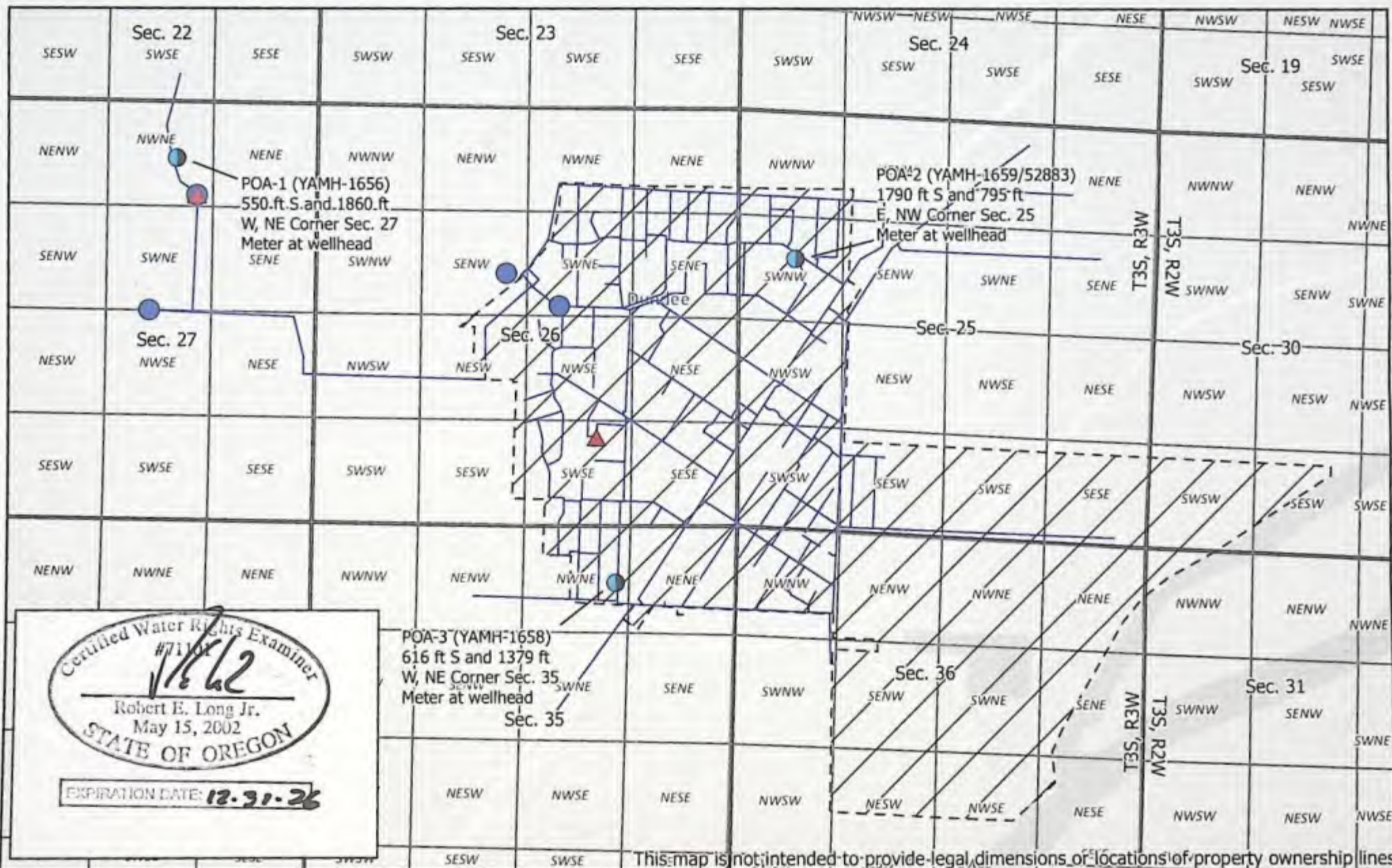
Received

SEP 24 2025

OWRD

Dundee UGB (POU)

- G-12685 POAs
- Distribution Lines
- Storage Tanks
- Pump Stations



Certified Water Rights Examiner
#71102
Robert E. Long Jr.
May 15, 2002
STATE OF OREGON
EXPIRATION DATE: 12-31-26

This map is not intended to provide legal dimensions or locations of property ownership lines

CWM-H2O

Complete Water Management



311 B Avenue, Suite P
Lake Oswego, Oregon 97034
(503) 954-1326

Claim of Beneficial Use Map
Permit G-12685
Application G-12568

1	DATE	AUTH	DRAFT
No.	Date	By	Revisions

N 0 1,000 2,000 Feet
1:20,000

Proj#: 2434001
City of Dundee
City of Dundee
PO Box 220
Dundee, OR 97115

Received
SEP 24 2025
OWRD

Dundee UGB (POU)
G-12685 POAs
Distribution Lines
Storage Tanks
Pump Stations



Oregon

Tina Kotek, Governor

Water Resources Department

725 Summer St NE, Suite A

Salem, OR 97301

(503) 986-0900

www.oregon.gov/owrd

October 6, 2025

City of Dundee
P.O. Box 220
Dundee, OR 97115

On September 24, 2025, the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file(s):

Application G-12568

Permit G-12685

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.

Please be aware that the Department has not received an appropriate Pump Test as required by the permit. Until such time that an appropriate Pump Test is submitted and approved, the Department is unable to review your Claim.

We cannot approve these pump tests as submitted because:

1. They do not include the required cover sheet and form (OAR 690-217-0020(1)).
2. It is unclear whether the wells were idle for at least 16 hours prior to the tests (OAR 690-217-0025(1)).
3. There are not at least 3 static water level measurements within the hour prior to the test (OAR 690-217-0025(2)).
4. The discharge (pumping rate) does not appear to have been held constant for Wells No. 8 and No. 9 (OAR 690-217-0025(4)).
5. The recovery phase data for Well No. 8 does not appear to correspond to the pumping phase data. The recovery phase water level measurements are all higher than the pumping phase water level measurements.

However, since these are public water supply wells, you can request an Unreasonable Burden Exemption using the included form if pump testing will cause interruption of service to customers.

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: http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml

Customer Service phone: (503) 986-0900

Enclosed is your receipt for the \$345.00 COBU recording fee.

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

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #:G-12568	WRD Reviewer:Sarah Benham
Transfer #:	
Date Received:9/24/2025	
CWRE Name:Robert Long	

Fees Required:

- ☒ YES NO ☐ A fee of \$345 must accompany this form for permits with priority dates of July 9, 1987, or later. **Priority date of affected water right(s):**
6/7/1991
- ☐ YES NO ☐ A fee of \$345 must accompany this form for any transfer applications submitted July 9, 1987, or later. **Submission date of transfer application:**

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)

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

DATE:		RECEIPT #:	
RESIDENT FROM		APPLICATOR	
		PLUMBER	
		ELECTRICIAN	
CASH ☐ CHECK # ☐	OTHER (ACCOUNT) ☐	TOTAL PAID: \$	
BUSY TOTAL: \$ 419.00 (CASH ONLY)			
SALE ☐ COMES ☐	OTHER (SALE) ☐		
COSTS: BROWN LANE		COST: BLUE FROM BROWN FIRM	
COST: OTHER: \$0.00			
TOTAL RECEIPT: 419.00 (BUSY TOTAL ADJUST)			
6407 MISCELLANEOUS	4611		
6407 COPY & TAPES			
6410 RESEARCH FEES			
6409 LAND ACQUISITION (JOINTLY)			
7103 DEPOSIT (LAW) (JOINTLY)			
5216 EXTENSION OF TIME			
WATER RIGHTS	TEAM FEE		EXTRA FEE
6301 SURFACE WATER	1	6020	
6302 CANAL WATER	2	6054	
6303 TRANSFER	3		
WELL CONSTRUCTION	TEAM FEE		EXTRA FEE
6218 WELL DRILL CONSTRUCTION		6219	
LANDOWNERS PERMIT		6220	
0200 OTHER (JOINTLY)	0084		0272.00
BUSY TOTAL: 419.00 (BUSY TOTAL ADJUST)			
6210 POWER LICENSE FEE (PRIVATE)	6211		
6212 HYDRO LICENSE FEE (PRIVATE)			
HYDRO APPLICATION			
SPECIAL INSTRUCTIONS:			



September 23, 2025

Oregon Water Resources Department
 Water Rights Services Division
 725 Summer St, Ste A
 Salem, OR 97301

Received
SEP 24 2025
OWRD

RE: CITY OF DUNDEE WATER RIGHT APPLICATIONS

Dear Water Rights Services Staff,

Please find accompanying this cover letter copies of the following water rights applications submitted for review on behalf of the City of Dundee:

- Partial Claim of Beneficial Use for Permit G-12685
- Extension of Time for Permit G-12685
- Extension of Time for Permit G-6017
- Extension of Time for Permit G-17485
- Extension of Time for Permit S-44462
- Claim of Beneficial Use for Permit G-17484

The intent of these applications is to request additional time in which to meet the conditions of the water right permits (Extensions of Time) or demonstrate that full beneficial use of permitted water rights has been achieved (Claims of Beneficial Use). The Claim of Beneficial Use application included for permit G-12685 intends to partially certify a portion of the authorized appropriations (0.64 cfs of 1.78 cfs). The remainder of the authorized rate is to be extended under the included extension of time application.

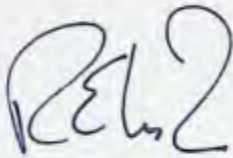
Both G-17484 and G-12685 include conditions requiring the submission of pump tests for each POA. Please note that pump tests for each of the three POAs listed under G-12685 were submitted along with their original well logs in 1992. Attached pump test documents indicate they were received by the Department in 1992. The current status of each water right's pump test requirement is summarized below:

City of Dundee Pump Test Requirements for Groundwater Permits						
Water Right	POA #	Pump Test Submitted?	Pump Test Processed?	Duration (pumping/recovery)	Rate (gpm)	Pump test included with application?
G-12685	POA-1	Yes	No	24 hrs/24 hrs	210	Yes
	POA-2	Yes	No	24 hrs/24 hrs	150	Yes
	POA-3	Yes	No	24 hrs/24 hrs	150	Yes
G-17484	POA-2	Yes	Yes	115 hrs total	264	No

Please let us know if any additional information or clarification is needed to review these applications.

Sincerely,

CwM H2O, L.L.C.



Robert Long, CWRE

Enclosed:

- WR Permit Extension Application Package for G-6017
- WR Permit Extension Application Package for G-12685
- WR Permit Extension Application Package for G-17485
- WR Permit Extension Application Package for S-44462
- WR Permit Claim of Beneficial Use Package for G-17484
- WR Permit Claim of Beneficial Use Package for G-12685

Received
SEP 24 2025
OWRD



June 11, 2025

Gerry Clark
Water Rights Services Division
Oregon Water Resources Department
725 Summer St. NE Ste A
Salem, Oregon 97301

Received
SEP 24 2025
OWRD

RE: INCREMENTAL PERFECTION OF PERMIT G-12685 FOR 0.64 CFS – CITY OF DUNDEE

Dear Gerry,

Please find accompanying this letter a Claim of Beneficial Use (CBU) application package for the City of Dundee's (City) municipal use permit G-12685. This letter is intended to provide notification of the City's intent to apply for incremental perfection of G-12685, as required by OAR 690-320-0040(4). The City obtains water from POA-1, POA-2, and POA-3 within the CRBG aquifer. Each of these POAs is permitted to appropriate up to the maximum authorized by Permit G-12685, or 1.78 cfs. To date, the City has only developed the capacity to divert and treat a total of 0.64 cfs from these POAs (36%), meaning that a rate of only 1.14 cfs under Permit G-12685 is undeveloped. The attached CBU documents the beneficial use of this 0.64 cfs portion of the permit.

The permit window for G-12685 closes on October 1, 2025. Therefore, only water use prior to this date is utilized as evidence in the attached claim. The City has submitted an extension of time for the remaining portion of the permit (1.14 cfs, or 64%) along with this CBU application, which should be processed after the CBU. For the purpose of incremental perfection, attached to this letter are monthly summaries of water production under Permit G-12685 for the last three available years (2022-2024) as required by OAR 690-320-0040(4)(a).

The City is projected to undergo significant population growth within the proposed extended permit window. The proposed development within the City's UGB includes construction of homes for up to 2,619 people, which represents population growth equal to 80% of the City's current population. This will require the City to continue to develop the remainder of its water rights permits, including G-12685.

The City estimates it will be able to make an additional claim of beneficial use for the 1.14 cfs left to develop by approximately 2050, which is the date requested in the extension of time application (OAR 690-320-0040(4)(b)) included with this application to be processed after this partial CBU. To satisfy the conditions of OAR 690-320-0040(4)(c)), please see Attachment 2 of the CBU application, which is a map indicating the location of the POAs for Permit G-12685 and the permit area of use, which is the City's service area.

Please let us know if there are any issues in proceeding with the incremental perfection of the City's groundwater permit G-12685 or questions regarding the information above or CBU application included herein. Thank you for your assistance.

June 11, 2025

Project No. 2434001

Page 2



Sincerely,

CwM H2O, L.L.C.

A handwritten signature in blue ink, appearing to read "RL2", is positioned below the company name.

Robert Long, CWRE

Enclosed:

Attachment 1: Monthly Water Use from 2022-2024 Water Years (OAR 690-320-0040(4)(a))

Received

SEP 24 2025

OWRD

**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 \$345 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>

**SECTION 1
GENERAL INFORMATION**

**Received
SEP 24 2025
OWRD**

1. File Information:

APPLICATION # G-12568	PERMIT # (IF APPLICABLE) G-12685	PERMIT AMENDMENT # (IF APPLICABLE) NA
---------------------------------	--	---

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME City of Dundee		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS PO Box 220			
CITY Dundee	STATE OR	ZIP 97115	E-MAIL

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

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

PERMIT HOLDER OF RECORD City of Dundee			
ADDRESS PO Box 220			
CITY Dundee	STATE OR	ZIP 97115	

ADDITIONAL PERMIT HOLDER OF RECORD			
ADDRESS			
CITY	STATE	ZIP	

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SEP 24 2025

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4. Date of Site Inspection:

March 18, 2025

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Steve Dahl	Feb-Mar 2025	City Administrator
Chuck Simpson	Feb-Mar 2025	Public Works Superintendent

6. County:

Yamhill

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 NA			
ADDRESS NA			
CITY NA	STATE NA	ZIP NA	

Add additional tables for owners of record as needed

SECTION 2
SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



Received
SEP 24 2025
OWRD

CWRE NAME Robert Long		PHONE NO. (503) 954-1326	ADDITIONAL CONTACT NO.
ADDRESS 311 B Ave, Suite P			
CITY Lake Oswego	STATE OR	ZIP 97034	E-MAIL bob.long@cwmh2o.com

Permit Holder of Record Signature or Acknowledgement

***Each** permit holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	Brandon Hamilton	Interim City Administrator	9/17/2025

SECTION 3
CLAIM DESCRIPTION

Received
SEP 24 2025
OWRD

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 (City Well 8)	YAMH-1656	
POA-2 (City Well 9)	YAMH-1659/52883	L-48794
POA-3 (City Well 10)	YAMH-1658	

*Original Permit had 2 well locations, POA 1 was never developed.

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 (City Well 8)	Late Tertiary Basalt Aquifer Chehalem Creek Basin	
POA-2 (City Well 9)		
POA-3 (City Well 10)		

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 (Well 8)	Municipal	NA	Year-round	0.39 cfs
POA-2 (Well 9)	Municipal	NA	Year-round	0.14 cfs
POA-3 (Well 10)	Municipal	NA	Year-round	0.11 cfs
Total Quantity of Water Used				0.64 cfs

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:

POA-1 (Well-8) is located in the City's upper pressure zone. It pumps water into the 6,000 gallon clearwell, which is subsequently pumped to the City's upper pressure zone reservoir via the Clearwell booster pumps. POA-2 and POA-3 (Well-9 and Well-10) are located in the lower pressure zone. These wells pump into the Dundee Hills booster pumps before being distributed into the lower pressure zone distribution system.

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

5. Variations:

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

NA

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 (Well 8)	1.78 cfs	0.40 cfs	0.39 cfs	Municipal	-	-
POA-2 (Well 9)	1.78 cfs	0.48 cfs	0.14 cfs	Municipal	-	-
POA-3 (Well 10)	1.78 cfs	0.23 cfs	0.11 cfs	Municipal	-	-

***Based on City water use records from 08/21/20**

Received
SEP 24 2025
OWRD

SECTION 4 (POA-1)

SYSTEM DESCRIPTION

Are there multiple POAs?

YES NO

If "YES" you will need to copy and complete a separate Section 4 for each POA.

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

POA-1 (Well 8)

A. Place of Use

Received

1. Is the right for municipal use?

SEP 24 2025

YES NO

If "YES" the table below may be deleted.

OWRD

TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES NO

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

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

The well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

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.

NA

C. Groundwater Source Information (Sump)

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

YES NO

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

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

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

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

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

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

Received SEP 24 2025

D. Diversion and Delivery System Information

OWRD

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 NO

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

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Grundfos	150S100-5		Submersible	NA	NA

3. Motor Information:

MANUFACTURER	HORSEPOWER
NA	10

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)
10	50	83	-35	.40

5. Provide pump calculations:

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$$Q_{\text{Pump}} = \frac{(10 \text{ hp})(7.04 \text{ ft}^4/\text{sec}/\text{hp})}{(175 \text{ ft})} = 0.40 \text{ cfs}$$

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)
NA	NA	NA	NA

**It was not possible to view active pumping during the site visit because the City's wells operate as-needed to maintain appropriate reservoir levels.*

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

7. Is the distribution system piped?

YES NO

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
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Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
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12. Drip Tape Information:

DRIPPER SPACING-IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT {CFS}	ADDITIONAL INFORMATION
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13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT {CFS}
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E. Storage

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

YES NO

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

If "YES" is it a:

Storage Tank

YES NO

Bulge in System / Reservoir

YES NO

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

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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?

YES NO

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

--

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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SECTION 4 (POA-2)

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

POA-2 (Well 9)

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

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YES NO

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

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

The well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

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.

NA

~~C. Groundwater Source Information (Sump)~~

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

YES NO

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

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

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

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

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

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

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 NO

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

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Grundfos	150S200-10		Submersible	3"	3"

3. Motor Information:

MANUFACTURER	HORSEPOWER
NA	20

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)
20	80	87.5	0	0.48

5. Provide pump calculations:

$$Q \text{ Pump} = \frac{(20 \text{ hp})(7.04 \text{ ft}^3/\text{sec}/\text{hp})}{(291.85 \text{ ft})} = 0.48 \text{ cfs}$$

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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)
NA	NA	NA	NA

**It was not possible to view active pumping during the site visit because the City's wells operate as-needed to maintain appropriate reservoir levels.*

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

7. Is the distribution system piped?**YES NO**

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
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Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
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12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION
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13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
--------------	-----------------------	---------------	--------------------------	--------------------------

E. Storage

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

YES NO

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

If "YES" is it a:

Storage Tank

YES NO

Bulge in System / Reservoir

YES NO

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

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

--

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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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?

YES NO

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

--

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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SECTION 4 (POA-3)

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

POA-3 (Well 10)

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Groundwater Source Information (Well)

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1. Is the appropriation from a well?

YES NO

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

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

The well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

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.

NA

~~C. Groundwater Source Information (Sump)~~

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

~~YES NO~~

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

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

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

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

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

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

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?

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YES NO

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

2. Pump Information:

OWRD

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Grundfos	405150	11C19-22-06063A	Submersible	3"	3"

3. Motor Information:

MANUFACTURER	HORSEPOWER
Franklin Electric	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)
10	80	265	0	0.23

5. Provide pump calculations:

Q Pump = $\frac{(15 \text{ hp})(7.04 \text{ ft}^4/\text{sec}/\text{hp})}{(468.5 \text{ ft})} = 0.23 \text{ cfs}$

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)
NA	NA	NA	NA

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

7. Is the distribution system piped?

YES NO

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT {GPM}	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT {CFS}
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Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT {GPM}	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT {CFS}
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12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT {CFS}	ADDITIONAL INFORMATION
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13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT {GPM}	TOTAL PIVOT OUTPUT {CFS}
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E. Storage

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

YES NO

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

If "YES" is it a: Storage Tank
 Bulge in System / Reservoir

YES NO

YES NO

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

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

--

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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?

YES NO

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

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2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

--

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

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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SECTION 5 CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and 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 ¹	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	8/21/1996		
BEGIN CONSTRUCTION (A)	8/21/1997 ²	11/21/1991	All wells constructed within permitted timeframe
COMPLETE CONSTRUCTION (B)	10/1/1998 ²	1/10/1992	
COMPLETE APPLICATION OF WATER (C)	10/1/1999 ² (10/1/2025) ³	The City is submitting an Extension of Time Application with this Claim of Beneficial Use to extend the development period for the remaining rate authorized under Permit G-12685 not included in the claim to October 1, 2050.	

1: MUST BE WITHIN PERIOD BETWEEN PERMIT, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2: DATES A, B, AND C ARE FROM THE ORIGINAL PERMIT (G-12685)

3: THE EXTENDED C DATE IS FROM THE EXTENSION FINAL ORDER ISSUED FOR PERMIT G-12685 ON 9/29/2006.

2. Is there an extension final order(s)? YES NO

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

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

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

~~b. Were the Progress Reports submitted? YES NO~~

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

3. Initial Water Level Measurements:

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

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

b. What month was the initial measurement to be taken in?

NA

c. Was the measurement submitted to the Department?

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YES NO

d. If the initial measurement was not submitted, provide that measurement now, if available:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
12/17/1991	Driller	Reported	8 ft (POA-1)
2/11/1992	Driller	Reported	1 ft (POA-2)
1/28/1992	Driller	Reported	41 ft (POA-3)

4. Annual Static Water Level Measurements:

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

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

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

March

c. Were the static water level measurements taken in the month(s) required? **YES** NO

d. If "YES", were those measurements submitted to the Department? **YES** NO

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

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
NA	NA	NA	NA

5. Pump Test:

a. Did the permit require the submittal of a pump test? **YES** NO

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

For additional information regarding pump tests see:

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

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

b. Has the pump test been previously submitted to the Department? **YES** NO

***The City submitted pump tests for each approved POA which were stamped as received by the Department on 2/20/1992. It is unclear if they were reviewed. Pump tests are included in Attachment 1 and summarized here:**

Well	Duration (pumping/recovery)	Rate	
POA-1	24 hours/24 hours	210 gpm	Received
POA-2	24 hours/24 hours	150 gpm	SEP 24 2025
POA-3	24 hours/24 hours	150 gpm	OWRD

c. Is the pump test attached to this claim? **YES** NO

Yes. Complete pump tests for each POA are included in Attachment 1

d. Has the pump test been approved by the Department? **YES** NO

e. ~~Has a pump test exemption been approved by the Department?~~ **YES** ~~NO~~

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

6. Measurement Conditions:

- a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES** **NO**

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

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

- b. Has a meter been installed? **YES** **NO**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
POA-1	Sensus	86781196	Working	48584296	Unknown
POA-2	Seametrics	06103190	Working	2809429.4	2001
POA-3	Endress + Hauser	M405BE16000	Working	NA (During site visit, POA-3 was shut down and flowmeter was not legible. The City is currently exploring for well rehabilitation to return it to full operation)	Unknown

If a meter has been installed, items d through f relating to this section may be deleted.

- d. ~~If a meter has not been installed, has a suitable measuring device been installed and approved by the Department?~~ **YES** **NO**

e. ~~If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:~~

NAME	TITLE	APPROXIMATE DATE

f. ~~Measurement Device Description~~

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED

7. Recording and reporting conditions:

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

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

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

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

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

- | | | |
|---|-----|----|
| a. Were there special well construction standards? | YES | NO |
| b. Was submittal of a ground water monitoring plan required? | YES | NO |
| c. Was submittal of a water management and conservation plan required? | YES | NO |
| d. Was a Well Identification Number (Well ID tag) assigned and attached | YES | NO |

to the well?

WELL ID #	DATE ATTACHED TO WELL
L-48794 (POA-2)	NA

- | | | |
|----------------------|-----|----|
| e. Other conditions? | YES | NO |
|----------------------|-----|----|

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

Please See Attachment 3 (Permit G-12685)

- a. Permit G-12685 required construction of wells within a confined unit of the Columbia River Basalt. Wells were constructed appropriately.
- c. The City most recently submitted a WMCP in 2023.
- d. One POA (POA-2) has a Well ID tag attached (L-48794)
- e. Permit G-12685 required compliance with water level decline requirements.
- POA-1 has an initial reported water level of 8 ft, though subsequent measurements by OWRD suggest that the original springtime water level was closer to 20 ft (2005 OWRD measurement). Static water levels submitted over the last five years (2020-2025) show an average drawdown since 2007 of approximately 13.5 ft, though water levels over this time only fluctuate by about 6 ft. This well has been drawn down since the 2007 measurement but appears to be relatively stable. The City will continue to monitor water levels and adjust usage as necessary.
 - POA-2 had an initial water level measurement of 1 ft. However, subsequent measurements by OWRD in 2006 show a springtime static water level of 40 ft. March water levels submitted over the last five years show no significant change in water level.
 - POA-3 had an initial water level measurement of 41 ft. Water levels measured over the last 5 years show a total decline of 9 ft since 1992.

**SECTION 6
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION	OWRD
Attachment 1	Permit G-12685 Well Logs	
Attachment 2	Claim of Beneficial Use Map	
Attachment 3	Permit G-12685	

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.

Data sources include:

- Data collected during site survey (March 18, 2025)
- Specific data provided by City, including well construction and development records, water use records, historic WMCP and WMP documents, and a facility tour.
- Google Earth Imagery (Google, ©2025 Airbus)
- DOGAMI LiDAR (LDQ-45123C1, 2009 OLC Hood to Coast)

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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) **Municipal Scale Requirements Differ**
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☐ If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters **N/A**
- ☐ Locations of fish screens and/or fish by-pass devices in relationship to point of diversion **N/A**
- ☒ Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- ☒ Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- ☒ Point(s) of diversion or appropriation (illustrated and coordinates)
- ☐ Tax lot boundaries and numbers **N/A for Municipal**
- ☐ Source illustrated if surface water **N/A**
- ☒ Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- ☒ Application and permit number or transfer number
- ☒ North arrow
- ☒ Legend
- ☐ CWRE stamp and signature

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**Attachment 1
G-12685 Well Logs**

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

WATER RESOURCES DEPT.
SALEM, OREGON

(START CARD) # 32016

(1) OWNER: Well Number: 8
Name City of Dundee
Address PO Box 220
City Dundee State OR Zip 97115

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:

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

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 304 ft.
Explosives used Yes No ☒ Type Amount

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	75	Cement	0	75	42 sks

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:	8	+2.5	75	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of sheets

(7) PERFORATIONS/SCREENS:

☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Also see attached 24 hr test data	Flowing Artesian
70	11	1.5 hr.
185	54	3 Hr-incl. abv
240	88	4.5 Hr-incl. abv

Temperature of water 55° F 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: SEI Log#9132

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude Longitude
Township 3S Nor S. Range 3W E or W, WM.
Section 27 NW 1/4 of NE 1/4
Tax Lot 700 Lot Block Subdivision
Street Address of Well (or nearest address) Fairview Dr.
Dundee, OR

(10) STATIC WATER LEVEL:

8 ft. below land surface. Date 12/17/91
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 98

From	To	Estimated Flow Rate	SWL
98	144	airtest - 65	
98	195	airtest - 90	
98	230	airtest - 120	
98	304	airtest - 300	

(12) WELL LOG:

Ground elevation ~450

Material	From	To	SWL
Topsoil	0	1	
Clay, brown	1	6	
Clay, grey	6	12	
Basalt, decayed w/clay, grey	12	38	
Basalt, grey-brn, soft	38	70	
Basalt, grey-brn, med	70	98	
Basalt, grey-brn w/black	98	155	
Basalt, grey w/soft, brn layers	155	185	
Basalt, brn, decayed	185	215	
Basalt, grey	215	222	
Basalt, brown	222	230	
Basalt, grey, bkn, med	230	250	
Basalt, grey&brn, bkn, med-sft	250	269	
Basalt, brown, bkn, med-sft	269	284	
Basalt, brn & gry, bkn, med-sft	284	295	
Basalt, grey, frac, med-hd	295	304	

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Date started 11/21/91 Completed 1/10/92

(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367 Date 1/31/92

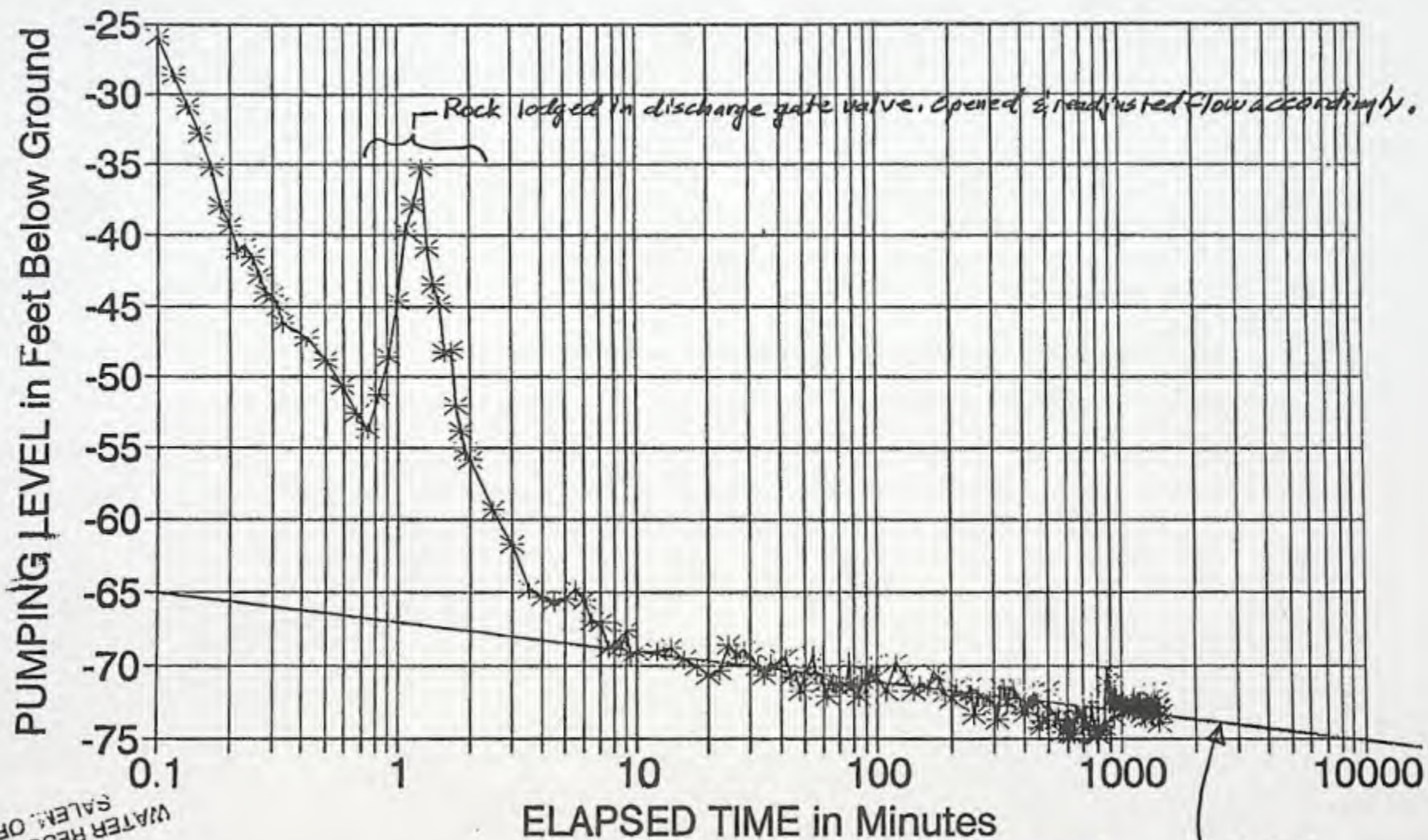
(bonded) Water Well Constructor Certification:

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

Signed [Signature] WWC Number 649 Date 1/31/92

CITY OF DUNDEE WELL NO. 8

CONSTANT RATE PUMP TEST: 12/30-31/91
by Schneider Drilling Co. - Qavg = 210 gpm



WATER RESOURCES DEPT.
SALEM, OREGON
FEB 18 1992
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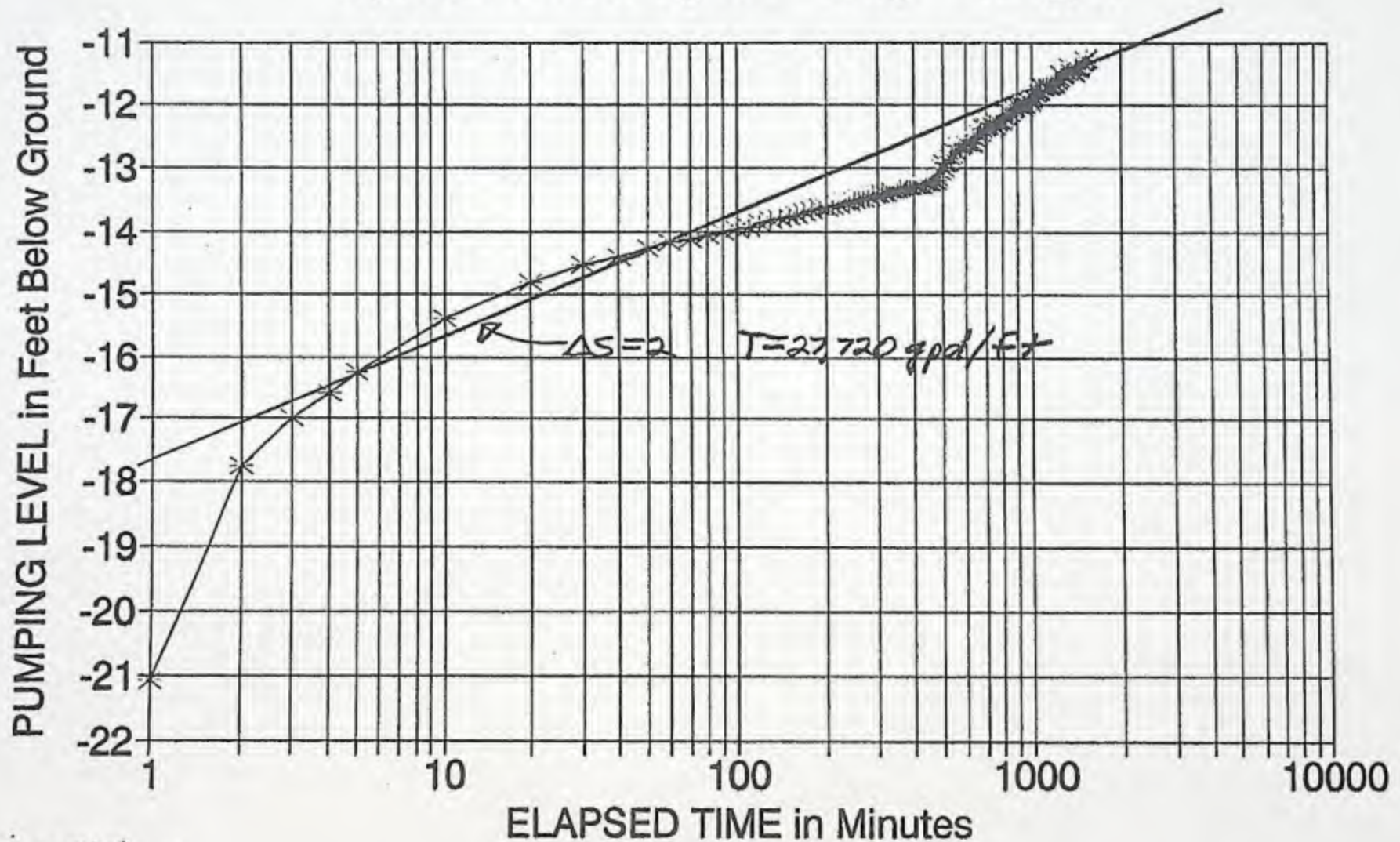
Received
SEP 24 2025
OWRD

$\Delta S = 2$
 $T = \frac{264 \cdot 210}{2} = 27,720 \text{ gpd/ft.}$

CITY OF DUNDEE WELL NO. 8

WELL RECOVERY TEST: 12/31/91 TO 1/1/92

by Schneider Drilling Co. - $Q_{avg} = 210$ gpm



WATER RESOURCES DEPT.
SALEM, OREGON

FEB 18 1992

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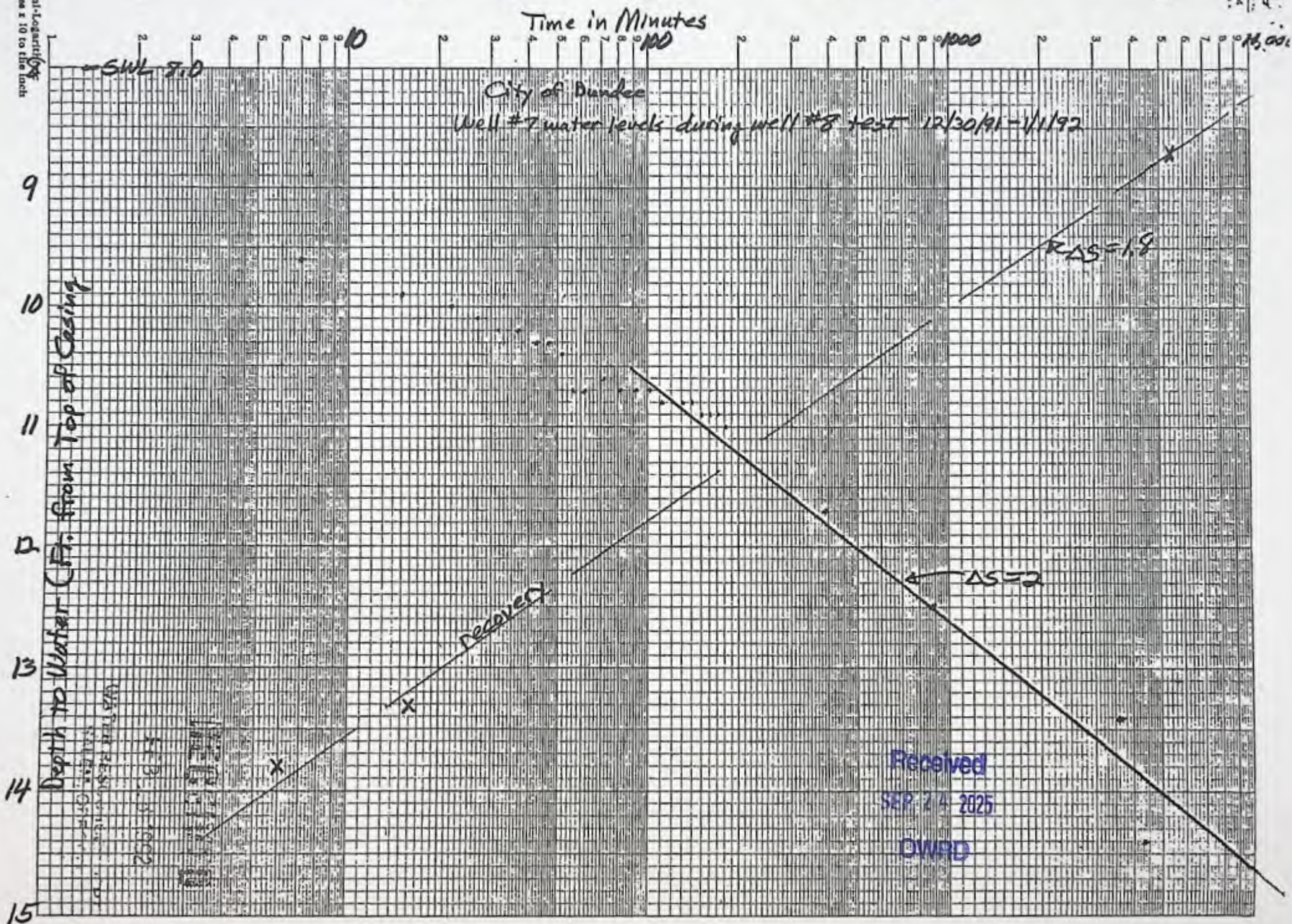
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OWRD

Semi-Logarithmic
4 Cycles x 10 to the inch

2-106
H. 2000



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

FEB 20 1992

(START CARD) # 32018

(1) OWNER:

Name City of Dundee

Address P.O. Box 220

City Dundee State OR Zip 97115

Well Number 10

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:

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

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 482 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks or pounds	
12	0 257	Cementw/bent	0 340	446 sks	
10	257 340				
8	340 482				

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: 8	+2.5	340	.250	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
Liner:				☐	☐	☐	☐
				☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/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
105	99		1 hr.
155	165		2hr incl above
195	224		3hr " "

Also see attached 24hr test data

Temperature of Water 55°F 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: SEI 9136

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude Longitude
Township 3S N or S. Range 3W E or W. WM.
Section 26 SE 1/4 of SW 1/4
Tax Lot 500 Lot Block Subdivision
Street Address of Well (or nearest address) Alder Street
Dundee, OR

(10) STATIC WATER LEVEL:

41 ft. below land surface. Date 1/28/92
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 65

From	To	Estimated Flow Rate	SWL
336	381	50	NM
336	472	300	

(12) WELL LOG:

SEP 24 2025 Ground elevation approx 180

Material	From	To	SWL
Top soil	0	2	
Clay, brown, soft	2	9	
Clay, grey, soft	9	65	
Sand, brn, med-fine, cem. & sandy brown clay layers	65	121	
Clay, grey, soft	121	145	
Clay, brn, sandy & cem sand ly	145	235	
Basalt, blk, frac, med-hd	235	245	
Basalt, brn, bkn & red cinders	245	328	
sloughs		328	
Basalt, blk, hard	328	336	
Basalt, blk, hard, frac.	336	361	
Basalt, grey, med, frac	361	381	
Basalt, grey, med, frac-some brown	381	426	
Basalt, grey, hard, frac	426	450	
Basalt, brn, med, frac, ves	450	461	
Basalt, grey, med-hard, frac	461	472	
Basalt, grey, hard	472	482	

Date started 11/20/91 Completed 2/11/92

(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 well construction standards. Material used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367
Date 2/14/92

(bonded) Water Well Constructor Certification:

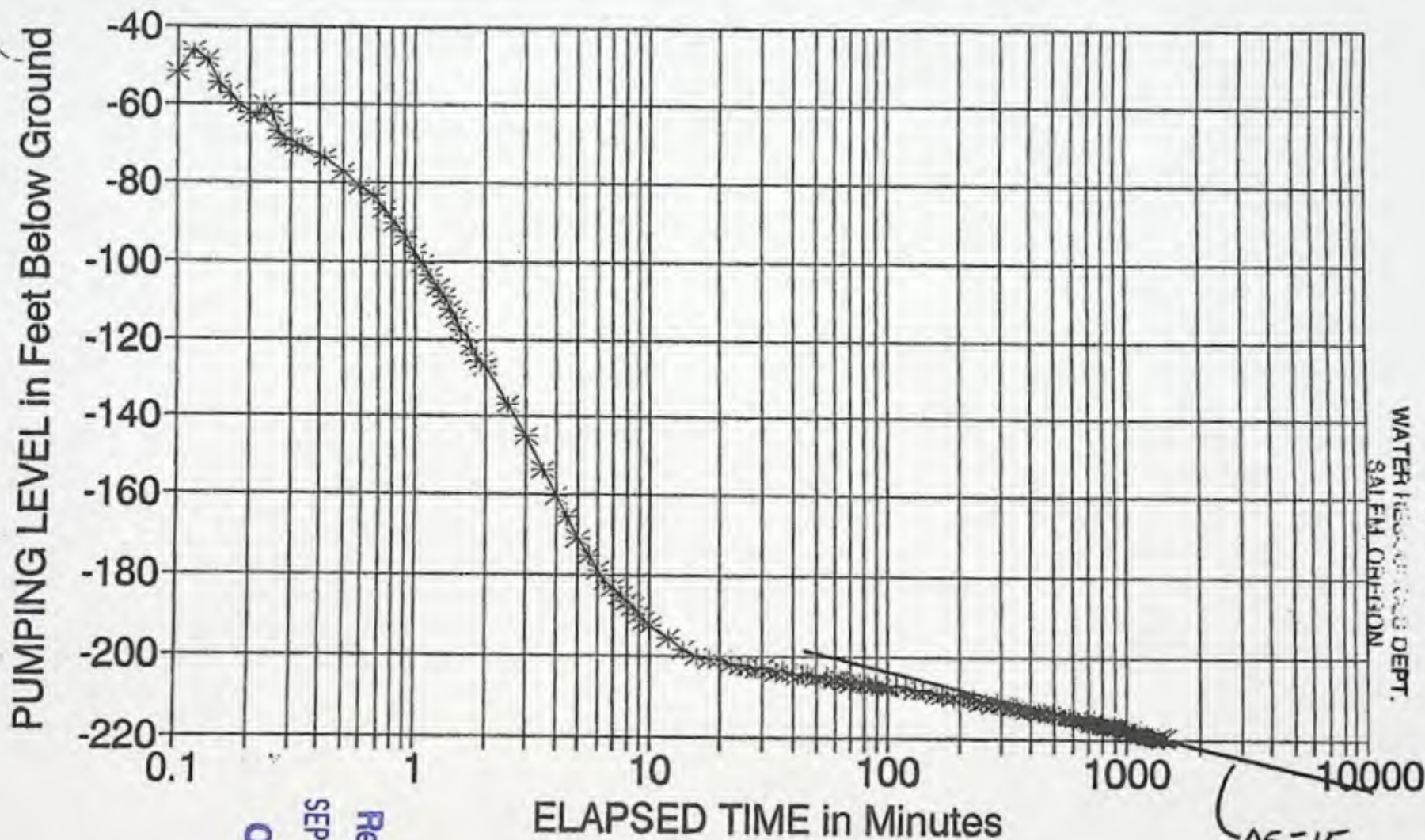
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 649
Date 2/14/92

CITY OF DUNDEE WELL NO. 10

CONSTANT RATE PUMP TEST: 1/28-29/92

by Schneider Drilling Co. - $Q_{avg} = 150 \text{ gpm}$



OWPD

SEP 24 2025

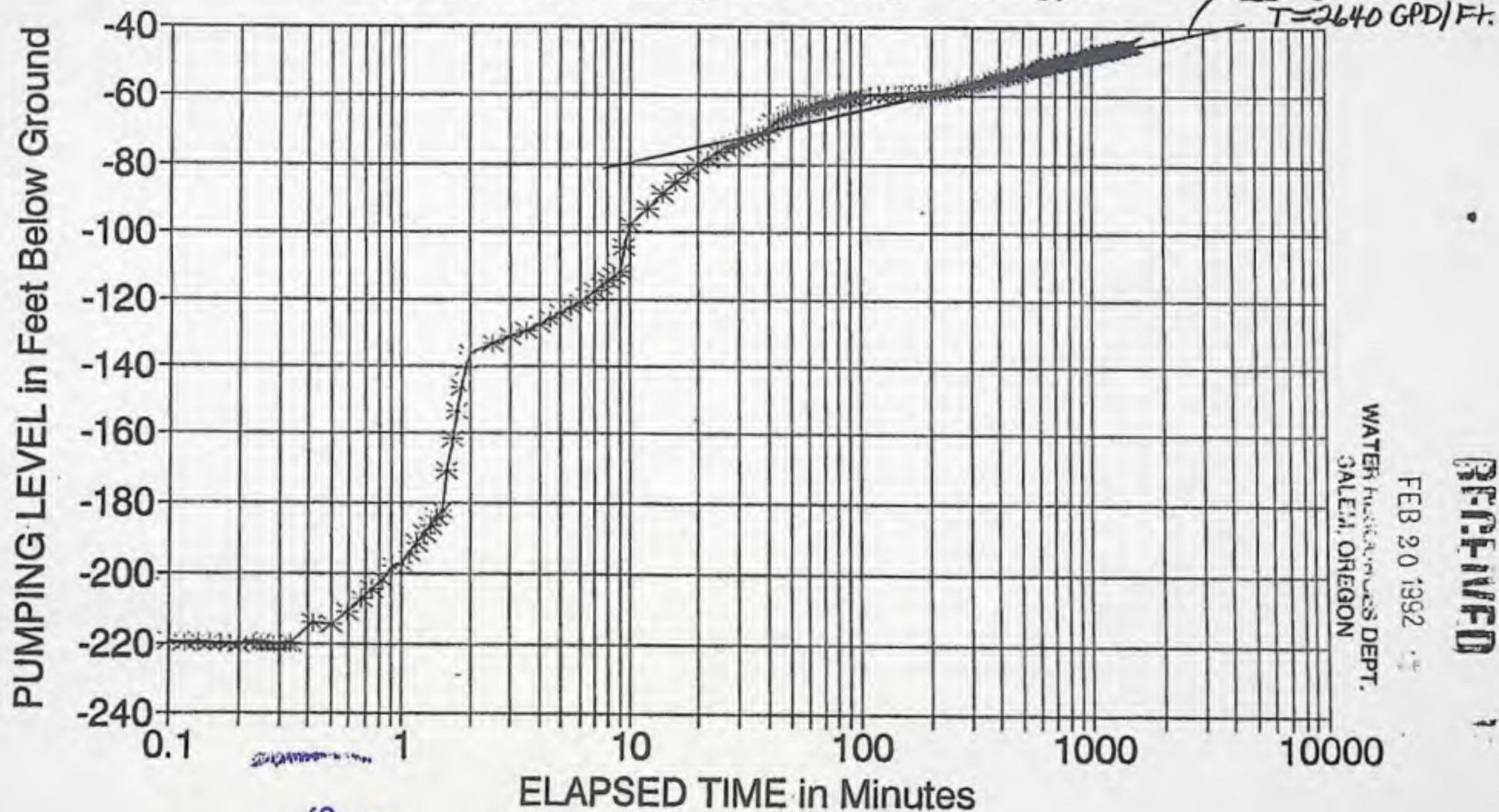
Received

$\Delta S = 15$
 $T = 2640 \text{ GPD/FT.}$

CITY OF DUNDEE WELL NO. 10

WELL RECOVERY TEST: 1/29-30/92

by Schneider Drilling Co. - $Q_{avg} = 150 \text{ gpm}$



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SALEM, OREGON

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

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FEB 20 1992

(START CARD) # 32017

(1) OWNER:

Name City of Dundee
Address P.O. Box 220
City Dundee State OR Zip 97115

Well Number 9

WATER RESOURCES DEPT
SA (19) LOCATION OF WELL by legal description:

County Yamhill Latitude _____ Longitude _____
Township 38 N or S. Range 3W E or W. WM.
Section 25 SW $\frac{1}{4}$ of NW $\frac{1}{4}$
Tax Lot 901 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1st Street
Dundee, OR

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other _____

(4) PROPOSED USE:

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

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 385 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	108	Cement	0	108	73 sks
8	108	385				

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:	8	+2.5	108	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/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
75	48		1 hr.
150	142		2hr incl above
205	256		3hr incl above

Also see attached 24hr test data

Temperature of Water 55°F 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: _____

SEI 9137

(10) STATIC WATER LEVEL:

1 ft. below land surface. Date 2/11/92
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 55

From	To	Estimated Flow Rate	SWL
115	364	See (8)	See (10)

(12) WELL LOG:

Ground elevation Approx 220

Material	From	To	SWL
Top soil	0	2	
Clay, brn, med-soft, silty	2	15	
Clay, red-brn, soft	15	55	
Sand, brn, med, cem	55	98	
Basalt, brn & grey, med	98	107	
Basalt, grey, med-hd	107	115	
Basalt, blk, med-hd, frac	115	135	
Basalt, grey, hd, frac	135	219	
Basalt, brn, bkn	219	225	
Basalt, brn & grey, frac	225	230	
Basalt, grey, frac	230	252	
Basalt, brn & grey, bkn	252	265	
Basalt, dk grey, frac	265	296	
Basalt, grey, hard	296	302	
Basalt, grey, frac	302	318	
Basalt, grey-blk, frac	318	323	
Basalt, grey, hd	323	329	
Basalt, blk, frac	329	346	
Basalt, blk, med-soft, well frac	346	361	
Basalt, blk, med, frac	361	364	
Basalt, grey, hd, some frac	364	385	

Date started 11/21/91 Completed 2/11/92

(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 well construction standards. Material used and information reported above are true to my best knowledge and belief.

WWC Number 1367
Signed [Signature] Date 2/14/92

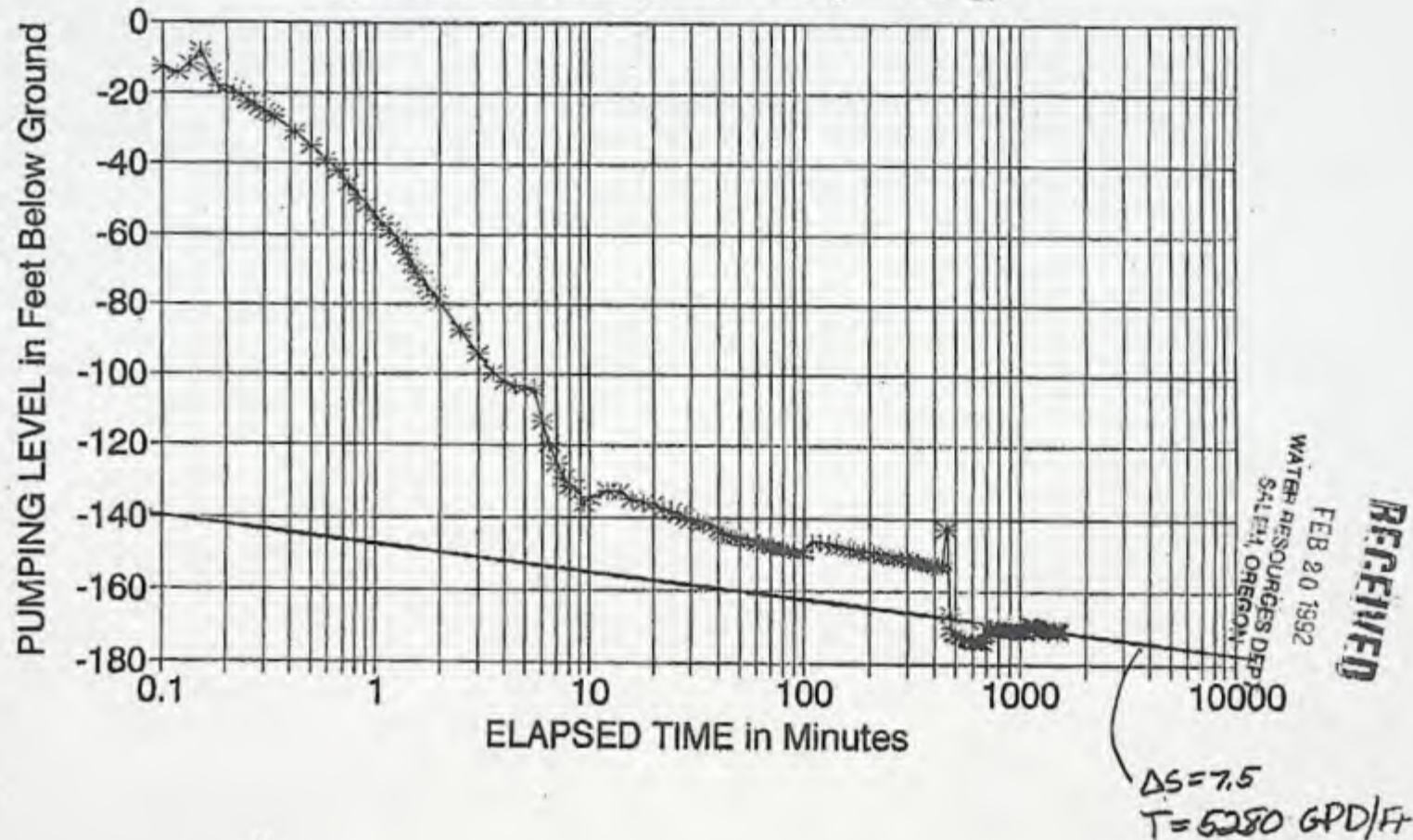
(bonded) Water Well Constructor Certification:

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 well construction standards. This is true to the best of my knowledge and belief.

WWC Number 649
Signed [Signature] Date 2/14/92

CITY OF DUNDEE WELL NO. 9

CONSTANT RATE PUMP TEST: 2/5-6/92
by Schneider Drilling Co. - $Q_{avg} = 150 \text{ gpm}$



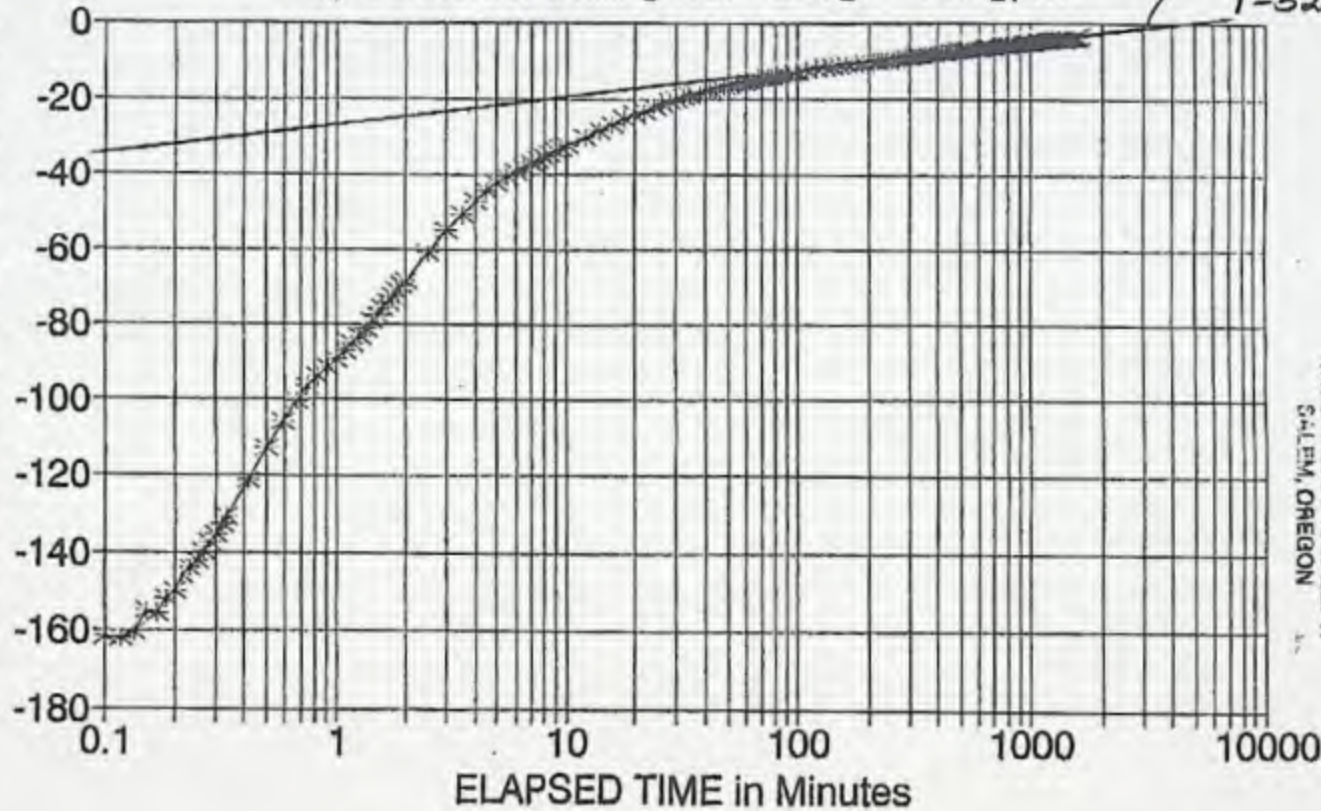
Received
SEP 24 2025
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CITY OF DUNDEE WELL NO. 9

WELL RECOVERY TEST: 2/6-7/92
by Schneider Drilling Co. - $Q_{avg} = 150$ gpm

$\Delta S = 7.5$
 $T = 5280$ GPD/FT

PUMPING LEVEL in Feet Below Ground



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SALEM, OREGON

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Instructions for completing this report are on the last page of this form

START CARD # 141218

Well Number:

State OR Zip 97115

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

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

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

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

[illegible]

How was seal placed. Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other seal not disturbed

Backfill placed from	ft. to	ft.	Material
----------------------	--------	-----	----------

[illegible]

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	8 inch	-7'	385'	160#	☐	☒	☒	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
131'	365'	1/8x6	468	8 inch		☐	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
not tested			1 hr.

Temperature of Water	Depth Artesian Flow found
50	10
55	15
60	20
65	25
70	30
75	35
80	40
85	45
90	50
95	55
100	60

Was a water analysis done? ☐ Yes ☐ No By whom _____

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

County **Yamhill** Latitude _____ Longitude _____
Township **3S** N or S. Range **3W** E or W. of WM.
Section **25** **SW** 1/4 **NW** 1/4
Tax lot **901** Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) **First Street**

(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
Received			
SEP 24 2025			
OWRD			
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JAN 23 2002			
WATER RESOURCES DEPT.			
SALEM, OREGON			

Date started 8/20/2001

Completed 8/21/2001

(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 the best of my 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 Michael Waldrod WWC Number 633
Date 1/8/02

Michael Waldroop

Attachment 3
Permit G-12685

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STATE OF OREGON
COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

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Measurement, recording and reporting conditions:

- Condition A**
- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

Application G-12568 Water Resources Department

PERMIT G-12685

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as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86. **Condition B**

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined. **Condition C**

- (1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays: **Condition D**

- (a) An average water level decline of three or more feet per year for five consecutive years; or **a**
- (b) A total water level decline of fifteen or more feet; or **b**
- (c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights. **c**

- (2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year. **Condition E**

- (3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

- (a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department. **Condition F**

- (b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31. **Condition G**

- (c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

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(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

STANDARD CONDITIONS

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

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter. Condition H

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

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

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

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued August 21, 1996

Michael J. Pugh
Water Resources Department
Director

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SEP 24 2025

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Application G-12568 Water Resources Department
Basin 02 Volume 17 CHEHALEM CREEK & MISC
 MGMT CODES 7IG, 7IR

PERMIT G-12685
District 16

Attachment 4
G-12685 Water Use Records 8/21/2020

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Production Report

Well # 9 Daily Production Report

August 2020

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Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	Used
31	8688238	101552	74	88	827	GW	26	4
30	8586686	12042	...	89	0920	GW	30	1
29	8574644	57716	6	185	0920	GW	31	2
28	8517928	106544	71	90	830	GW	32	3
27	8411284	102341	73	89	810	GW	36	4
26	8305943	10018	79	86	840	W	40	1
25	8208925	71849	73	88	1000	W	41	1
24	8137876	96077	72	89	834	GW	40	1
23	8041739	11236	64	92	1040	W	43	1
22	8029963	11507	67	106	1115	W	46	1
21	8018456	105250	67	91	815	GW	46	4
20	7913204	102981	67	90	816	GW	8	4
19	7810223	101813	76	88	840	W	12	3
18	7808410	109457	72	91	900	W	15	3
17	7598953	96659	67	90	830	W	18	3
16	7502294	114539	77	92	1015	W	21	5
15	7387755	103291	65	95	830	W	26	4
14	7171464	18716	66	95	855	W	30	3
13	7175748	10180	79	93	815	GW	33	1
12	7165568	29083	6	188	816	GW	33	1
11	7136485	105600	74	92	839	GW	34	2
10	7030885	92341	78	92	835	GW	36	3
9	6938544	114629	68	92	1132	GW	39	3
8	6823915	110072	65	95	925	GW	42	3
7	6713843	101080	78	95	821	GW	45	2
6	6612763	98470	74	97	850	W	47	3
5	6504293	108802	76	95	840	GW	48	3
4	6396491	91732	67	97	806	GW	11	3
3	6304759	103950	67	98	833	GW	14	3
2	6200309	40709	60	107	0850	GW	17	1
1	6160100	81531	52	120	0815	GW	18	2

CL Prod
@ 25

no.
CL

no.
CL

Well # 10 Daily Production Report

August 2020

Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	Used
31	53917348	69988	50	157	908	GW	39	4
30	53847360	9984	50	164	0950	GW	43	1
29	53837376	37478	50	301	1010	GW	44	2
28	53799898	72456	50	152	903	GW	46	4
27	53728448	75036	50	155	847	GW	4	5
26	53652412	63572	50	151	0715	GW	9	4
25	5							
24	53588910	66700	50	157	719	GW	13	3
23	53522140	3556	50	166	1110	GW	16	2
22	53512534	6584	50	302	1141	GW	16	2
21	53506000	69516	50	146	842	GW	18	4
20	53436484	72700	50	147	920	GW	22	4
19	53363854	66556	50	148	900	GW	26	4
18	53297025	77808	50	148	1015	GW	30	4
17	53219220	66084	50	150	910	GW	25	5
16	53157136	75996	50	155	1105	GW	40	4
15	53077140	72472	50	153		GW	44	6
14	53004668	75244	50	155	925	GW	6	5
13	52929424	8720	50	164	849	GW	11	4
12	52920704	18216	50	298	852	GW	11	2
11	52902488	72020	50	146	915	GW	13	4
10	52830468	67436	50	149	913	GW	17	4
9	52763032	74634	50	149	1049	GW	26	5
8	52688398	74730	50	150	958	GW	26	5
7	52613668	68508	50	152	902	GW	31	4
6	52545160	34972	50	156	900	GW	35	6
5	52470188	73692	41	157	921	GW	41	5
4	52396496	62426	50	162	851	GW	46	4
3	52334076	71676	50	160	928	GW	6	5
2	52262400	30052	50	170	0940	GW	11	2
1	52232348	68672	50	152	0900	GW	13	6
	52163676						19	

new
CL2

new

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SEP 24 2025

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17-7177

5.3

Well-8

6/25/2021	5/27/2021	4/27/2021	3/28/2021	2/25/2021	1/25/2021	12/28/2020	11/25/2020	10/27/2020	9/25/2020	8/26/2020	7/28/2020	6/26/2020	5/25/2020	4/25/2020	3/25/2020	2/25/2020	1/26/2020	12/27/2019	11/27/2019	10/24/2019	9/24/2019					
3458440	1011074	8956130	6937455	6153427	5228555	3606630	2066782	1210799	5600640	998521	5979138	807743	9722017	8722017	8605442	8605442	8605442	7640409	7640409	5522188	3961645					
7.5	6.3	6.2	2.4	2.8	5.0	4.7	2.6	17.2	14.1	15.4	15.9	3.3	3.1	0.4	0.0	0.0	3.0	0.0	6.5	4.8	13.2					
2448366	2054944	2018675	784028	924872	1621925	1539848	855983	5610159	4602119	5019383	5171395	1085726	1000000	116575	0	0	965033	0	2118721	1560543	4301794					
65527296	64192752	63274152	61577744	59966820	58767360	57850716	56567344	55074600	55007460	53652412	51945528	50259432	48662724	47684828	46296844	45475976	44404656	43166056	41848460	40971584	39581036					
4.1	2.8	5.2	5	3.6	2.8	4	4.6	0.22	3.5	5.2	5.2	4.9	3	4.2	2.5	3.2	3.8	4	2.7	4.2	5.1					
1335989	912383	1694425	1629255	1173064	912383	1303404	1498915	71687	1140479	1694425	1694425	1596670	977553	1368574	814628	1042723	1238234	1303404	879798	1368574	1661840					
6/29	5/26	4/25	3/4	2/28	1/27	12/13	11/24	10/31	9/15	8/18	7/24	6/5	5/8	4/18	3/29	2/8	1/30	12/11	11/10	10/21	9/19					
80570	77484	86480	73232	75179	71028	73332	71624	34716	76112	77808	99820	74134	81942	74906	75823	77512	77952	76756	73584	78876	84922					
0.1247	0.1199	0.1338	0.1133	0.1163	0.1099	0.1135	0.1108	0.0537	0.1178	0.1204	0.1545	0.1147	0.1268	0.1159	0.1173	0.1199	0.1206	0.1188	0.1139	0.1220	0.1314					
3158242	1376967	9760536	7871578	6238855	4875928	3966307	2552853	434058	434058	8308943	5830189	3884007	2113678	902399	9431948	8480203	7161309	5827928	3630557	2613524	1000929					
5.4	5	5.8	5	4.2	2.8	4.3	6.5	0	5.3	7.6	6	5.4	3.7	4.5	3	4	4	6.7	3.1	5	6.7					
1759595	1629255	1889936	1629255	1368574	912383	1401159	2118032	0	1727010	2476468	1955106	1759595	1205649	1466330	977553	1303404	1303404	2183202	1010138	1629255	2183202					
6/29	5/26	4/20	3/29	2/27	1/18	12/13	11/17	10/30	9/15	8/16	7/19	6/4	5/26	4/16	3/29	2/8	1/31	12/11	11/2	10/6	9/1					
110722	112522	79065	88300	79333	59800	81780	99000	54159	118283	114539	93034	84710	89057	88010	116049	89889	95206	89735	89740	89477	99264					
0.1713	0.1741	0.1223	0.1366	0.1228	0.0925	0.1265	0.1532	0.0838	0.1830	0.1772	0.1440	0.1311	0.1378	0.1362	0.1796	0.1391	0.1473	0.1389	0.1389	0.1385	0.1536					
57052390	55155300	53550960	51971330	50648480	48795510	47023930	45370540	44369380	39592310	35696270	31403020	26731800	23419830	20453780	17589280	15166380	12993290	11266690	10362860	8377681	6830848					
5.8	4.9	10.3	4	5.6	5.4	5	3	14.6	12	13	14	10.2	9.1	8.8	7.4	6.7	5.3	2.8	6.1	4.7	12.0					
1889936	1596670	3356265	1303404	1824766	1759595	1629255	977553	4757425	3910212	4236063	4561914	3311970	2966050	2864500	2422900	2173090	1726600	903830	1985179	1546833	3922802					
6/2	5/31	4/16	3/14	2/23	1/28	12/24	11/29	10/27	9/13	8/21	Date Gal CFS										252157	0.3902				
230526	54221	99791	109262	88212	89902	89959	59150	66207	226223	252157											0.3500					
0.3567	0.0839	0.1544	0.1691	0.1365	0.1391	0.1392	0.0915	0.1024	0.3500	0.3902																
30319318	28500492	26650941	25458830	24631950	23779995	22735348	21756016	21155874	20669106	20669106	20669106	20669106	1950225	1674220	1393567	1166755	9634999	8019317	7175664	5326975	3890336					
5.6	5.6	3.6	2.5	2.6	3.2	3	1.8	1.5	0	0	0	57.4	0.8	0.9	0.7	4.7	5.0	2.6	5.7	4.4	11.1					
1824766	1824766	1173064	814628	847213	1042723	977553	586532	488777	0	0	0	18718881	276005	280653	226812	1531756	1615682	843653	1848689	1436639	3613589					
6/20	5/31	4/21	3/23	2/5	1/28	12/23	11/29	10/20	New pump and motor installed																	
118963	63616	79352	89113	55754	51947	52298	31440	76972																		
0.1841	0.0984	0.1228	0.1379	0.0863	0.0804	0.0809	0.0486	0.1191																		
7073089	2702417	420031	420031	420031	420031	420031	420031	9741394	9741394	6496994	2203699	9054986	8658609	8658609	8657706	8656141	8603874	7914528	7605661	7578160	7177972					
13.4	7.0						2.1	0.0	10.0	13.2	9.7	1.2	0.0	0.0	0.0	0.2	2.1	0.9	0.1	1.2	11.1					
4370672	2282386	0	0	0	0	0	684287	0	3244400	4293295	3160755	396377	0	903	1565	52267	689346	308867	27501	400188	3600910					
6/29	5/31	out of service					11/1	10/31	9/15	8/29	7/18	6/28	5/31	3/6	2/3	1/2	12/25	11/11	10/18	9/1						
338178	323222						118462	86512	179993	186591	197878	150011	838	1565	38327	90086	127541	146643	78042	177805						
0.5233	0.5001						0.1833	0.1339	0.2785	0.2887	0.3062	0.2321	0.0013	0.0024	0.0593	0.1394	0.1973	0.2269	0.1208	0.2751						
							1.05	0.00	4.98	6.59	4.85	0.61	0.00	0.00	0.08	1.06	0.47	0.04	0.61	5.53						
18946372	18189852	17451044	16503829	15555448	14871026	14363439	13674053	12875422	12874743	12161939	11265009	10377259	9496394	8953398	8943474	8746116	8063968	7286704	6128667	5591905	4751404					
2.3	2.3	2.9	2.9	2.1	1.6	2.1	2.5	0.0	2.2	2.8	2.7	2.7	1.7	0.0	0.6	2.1	2.4	3.6	1.6	2.6	3.2					
756520	738808	947215	948381	684422	507587	689386	798631	679	712804	896930	887750	880865	542996	9924	197358	682148	777264	1158037	536762	840501	1052134					
6/16	5/23	4/9	3/17	2/4	1/27	12/13	11/6	10/31	9/5	8/24	7/20	6/14	5/19	4/25	3/2	2/8	1/30	12/6	11/10	10/16	9/1					
37506	39264	40650	40440	41504	38862	40398	44285	19474	37360	43100	46298	40290	42067	7581	47624	48743	48386	48019	44559	45714	51390					
0.0580	0.0608	0.0629	0.0626	0.0642	0.0601	0.0625	0.0685	0.0301	0.0578	0.0667	0.0716	0.0623	0.0651	0.0117	0.0737	0.0754	0.0749	0.0743	0.0689	0.0707	0.0795					
10877520	10226352	9559779	9120449	8857920	8602696	8220514	7887682	7722187	7050300	6461659	5750766	4869233	4217201	3621677	2998051	2488971	2025149	1659282	1476059	1086510	77959					
2.4	2	1.3	0.8	0.8	1.2	1	0.2	2.1	1.8	2.2	2.7	2	1.8	1.9	1.6	1.4	1.1	0.6	1.2	0.9	2.1					
782042	651702	423606	260681	260681	391021	325851	65170	684287	586532	716872	879798	651702	586532	619117	521362	456191	358436	195511	391021	293266	684287					
6/20	5/26	4/21	3/23	2/25	1/5	12/24	11/25	10/27	9/13	8/21																
41532	23989	26644	31766	21220	18916	19021	8768	15388	32520	37978																
0.0643	0.0371	0.0412	0.0492	0.0328	0.0293	0.0294	0.0136	0.0238	0.0503	0.0588																

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SEP 24 2025

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Attachment 1

City of Dundee Permit G-12685 Monthly Water Use 2022-2024 (Usage in AF)

Water Year	Facility Name	October	November	December	January	February	March	April	May	June	July	August	September	Total Water Used
2024	POA-1 (WELL 8, YAMH 1656)	7.3	5.6	4.9	6.5	5.3	4.9	0	0	0	13	10	11.2	68.7
	POA-2 (WELL 9, YAMH 1659)	0	0.1	0.1	0	0	0	0	0	2.4	9	9.2	8.2	29
	POA-3 (WELL 10, YAMH 1658)	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	POA-1 (WELL 8, YAMH 1656)	7.4	6.8	5.9	2.6	4.6	3.9	4	6.4	11	10.3	9.9	11.2	84
	POA-2 (WELL 9, YAMH 1659)	2.6	2.4	2.7	6.6	3.3	3.8	7.3	11.8	11.4	10.6	3	0	65.5
	POA-3 (WELL 10, YAMH 1658)	1.1	1	1.1	2.8	2.3	1.4	1.6	3.1	0	0	0	0	14.4
2022	POA-1 (WELL 8, YAMH 1656)	1.8	4.2	5.6	7.6	4.7	4.4	4.4	5	6.4	8	11	11.1	74.2
	POA-2 (WELL 9, YAMH 1659)	7.3	5.5	1.9	0.2	1.4	1.9	3.3	2.3	3.3	7.6	7.6	7.6	49.9
	POA-3 (WELL 10, YAMH 1658)	2.6	2.8	0.94	0.1	0.2	0.8	1.4	1	1.4	3.2	2.2	2.2	18.84

Received
SEP 24 2025
OWRD

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A

SALEM, OR 97301-4172

(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **146093**

INVOICE # _____

RECEIVED FROM: City of Dundee

BY: _____

CASH: ☐ CHECK: ☒ OTHER: (IDENTIFY) ☐

APPLICATION	G-12568
PERMIT	
TRANSFER	

TOTAL REC'D \$ 1,170.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES \$ _____

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 \$ 1,170.00

WATER RIGHTS:

0201 SURFACE WATER EXAM FEE 0202 \$ _____

0203 GROUND WATER EXAM FEE 0204 \$ _____

0205 TRANSFER EXAM FEE \$ _____

WELL CONSTRUCTION

0218 WELL DRILL CONSTRUCTOR EXAM FEE 0219 \$ _____

LANDOWNER'S PERMIT

OTHER (IDENTIFY) 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:

146093

DATED:

9-24-25

BY:

(Signature)

CITY OF DUNDEE

Vendor: 9325 OREGON WATER RESOURCES DEPT.

9/17/2025

Check No: 39450

039450

INVOICE #	INV DATE	DESCRIPTION	INV AMOUNT
12685	1	9/16/2025 PERMIT G - 12685	1,170.00

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TOTAL AMOUNT

1,170.00



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

September 29, 2025

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Right Services Division has received your application for an extension of time for **APPLICATION FILE #: G-12568 (Permit G-12685)**. Your application will be reviewed in the future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

You may continue the use of water under your water right until the Water Resources Department formally takes action on your extension application. If your permit includes conditions, water use reporting, water level measurement reporting, etc., you are required to comply with the conditions.

Any additional development that occurs after the expired completion date, identified on the permit or an extension order, can only be claimed upon an approved extension application.

If you have questions concerning your extension of time application, please contact Jeffrey Pierceall at (503) 979-3213. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's website at: www.wrd.state.or.us.

Application for
Extension of Time
for Municipal and Quasi-Municipal
Water Use Permits



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

Make use of this form, *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, only if the permit uses the word "Municipal" or "Quasi-municipal" in the description of the purpose or use to which water is to be applied.

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

A separate extension application must be submitted for each permit as per OAR 690-315-0070(2). This page, with an original signature by the permit holder of record, must accompany the extension of time application.

This application and a summary of review criteria and procedures that are generally applicable to this application are available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>

I, City of Dundee, Brandon Hamilton, Interim City Administrator

NAME OF PERMIT HOLDER [OAR 690-315-0070(1) and (3)(a)]

NAME OF CONTACT

520 SW 5th St, P.O. Box 220
ADDRESS

Dundee
CITY

OR
STATE

97115
ZIP

PHONE

E-MAIL ADDRESS

the permit holder of:

Application Number G-12568

Permit Number G-12685
[OAR 690-315-0070(3)(b)]

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do hereby request that the time in which to:

- ☒ complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, 2025, be extended to **October 1, 2050**,¹

and/or the time in which to:

- ☒ apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2025, be extended to **October 1, 2050**.²

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

Signature

Date

¹ The Application must demonstrate that the water system construction will be complete within the time being requested.

² The Application must demonstrate that full beneficial use can be made within the time requested.

Before submitting, make sure the following items are included:

- Completed Application for Extension of Time
- Statutory fee of \$1,170. Application received without the correct fee will be returned.
- Signature page (page 1 of application) for Application for Extension of Time
- All supporting documentation and/or evidence referenced in the Application for Extension of Time

MAIL COMPLETED APPLICATION

along with the

STATUTORY FEE (ORS 536.050) TO:

**Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266**

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GENERAL TIPS:

- A separate Application for Extension of Time must be submitted for each permit. OAR 690-315-0070(2).
- Request the reasonable amount of time necessary to fully develop the permit and complete the project. If you don't request enough time, OWRD may be unable to find that you can complete the project within the time requested. The projected peak demand must demonstrate the full rate can be developed within the time period being requested.
- Permit extensions for Municipal and Quasi-Municipal permits are evaluated under OAR Chapter 690, Division 315. Except under limited circumstances (see OAR 690-315-0090), upon issuance of an order approving an extension of time, the permit holder will be required to submit a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 within 3 years. Diversion of water beyond the maximum rate currently diverted under the permit shall only be authorized upon approval of a WMCP.
- The Application for Extension of Time includes detailed tips and instructions to help you respond to each item of the application. Oregon water law and administrative rules require the OWRD to consider each of these items when reviewing a municipal or quasi-municipal water use Application for Extension of Time. However, please feel free to provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0070(3)(p).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights and Adjudications Division.
- Once an Application for Extension of Time is received by OWRD, it will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0080(1)(a).

Reference Materials Needed to Complete this Application

Below is a listing of the items that must be reviewed and considered when completing an Application for Extension of Time for a Municipal or Quasi-Municipal water use permit:

- The subject water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> (the link to the Water Rights Information System (WRIS)). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- Water Management and Conservation Plan (OAR Chapter 690, Division 86), *if applicable*, per OWRD.
- Water System Master Plan, *if applicable*, per Oregon Health Division.

- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; a long-term alternative water supply plan; a plan to monitor the effect of water use on ground water aquifers utilized under the permit, etc.).
- All other water rights (certificates, permits, permit amendments, transfers, and/or new applications) held by the applicant.
- For municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, the completed application must include a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit.

Definitions Pertinent to this Application for Extension of Time

Actual Construction - any physical work performed toward completion of the water system which demonstrates the water right permit holder's good faith and intention to complete the project with reasonable diligence. Actual construction does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. This definition applies to quasi-municipal permit holders, required under the applicable statute, and for municipal water use permits issued on or after June 29, 2005. OAR 690-315-0070(3)(c) and (d), and OAR 690-315-0020(3)(d)(A) and (B).

C-Date – the date specified in the permit or previous extension of time for complete application of water.

Permitted Time Period - period of time between the date when the permit was signed *and* the date specified in the permit for complete application of water

Time Period of the Previous Extension – *For the 2nd Application for Extension of Time* - period of time between the date specified in the permit for complete application of water and the new "extended to date" for complete application of water specified in the 1st approved extension.

For the 3rd, 4th, or . . . nth Application for Extension of Time - period of time between the "extended from date" for complete application of water and the "extended to date" for complete application of water specified in the most recently approved extension.

Undeveloped Portion of the Permit - the portion of the permit that is the difference between the maximum rate, or duty if applicable, specified in the permit and the maximum rate, or duty if applicable, diverted for beneficial use by June 29, 2005, or the C-date of the permit, whichever is later. (ORS 537.230(3)(d) and ORS 537.630(3)(d))

Work and Actions Accomplished - includes both physical work and other activities associated with the development of the water right, such as: water management planning; conservation planning; development of a water master plan for the Oregon Health Division; planning of a diversion system; demand forecasting; flow or water quality monitoring; source evaluation; entry into intergovernmental agreements for water delivery; property acquisition; engagement in

governmental permitting or project financing; procurement of planning, design or construction services; surveying; and any physical work performed toward completion of the system and development of the right (e.g., pumps; pipes; well construction; treatment plant/facilities; transmission systems; distribution systems; and/or intake structures).
OAR 690-315-0080(4).

Completing the Extension of Time Application for Quasi-Municipal or Municipal Use Permits

Please provide the information requested by item numbers 1-13. OWRD will use this information to evaluate your Application for Extension of Time.



TIP: When making a reference to any document, report, and/or plan:

- (1) reference the source document along with any page number(s), table(s) and/or chart(s) used in the response, and
- (2) include a copy of the source document (or appropriate pages) with the extension application.

[OAR 690-315-0070(3)]

1. **Submit the appropriate extension of time fee (\$780), as specified under ORS 536.050.**
If the extension application fee has already been paid, please provide indicate why and when it was paid.

[OAR 690-315-0070(3)(c)]

2. ~~For Quasi-Municipal water use permit holders, provide evidence of the actions taken to begin actual construction on the project if required under the applicable statute. All Quasi-Municipal permits issued prior to October 23, 1999, are generally required to begin actual construction within one (1) year.~~



TIP: See Definition of "Actual Construction"

Begin Date: ____ **Construction of** ____ **began.**
____ (month/year) ____ (details)

[OAR 690-315-0070(3)(d)]

3. ~~For Municipal water use permits issued on or after June 29, 2005, evidence of the actions taken to begin actual construction on the project.~~



TIP: See definition of "Actual Construction"

Begin Date: ____ **Construction of** ____ **began.**
____ (month/year) ____ (details)

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4. Provide a description of financial expenditures and evidence of actions taken to develop the water right permit within the permitted time period and, if applicable, within the time period of the most recent extension granted. *Present the list in chronological order in Chart-I.*

**TIP:**

See definitions of "Permitted Time Period", "C-Date", "Time Period of the Previous Extension", "Actual Construction" and "Work and Actions Accomplished".

CHART-I

INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List work/actions done before the permitted was issued – e.g. Well drilled.</i>	COST
1/10/1992	POA-1 (YAMH-1656) was drilled	\$510,000
2/11/1992	POA-2 (YAMH-1659) was drilled	
2/11/1992	POA-3 (YAMH-1658) was drilled	
3/1996	Clearwell Pump Station	\$310,000
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED DURING PERMITTED TIME PERIOD (after permit was issued and prior to permit "C-date") <i>List work/actions done during the permitted time period.</i>	COST
8/21/1996	Date the permit was signed - find date above signature on last page of permit.	
8/1997	Fir Court Subdivision 8-inch and 12-inch diameter Waterline Construction	\$15,000
8/21/1997	Date the permit specified "Actual Construction Work" shall begin ("A-Date") - not all permits contain this date.	
9/1999	Falcon Crest Subdivision 12-inch Diameter Waterline Construction	\$22,000
10/1/1999	Date the permit specified complete application of water to the use shall be made ("C-Date") - all permits contain this date.	
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED AFTER PERMIT "C-Date" and PRIOR TO THE MOST RECENT EXTENSION OF TIME REQUEST <i>For the 1st Application for Extension of Time: List work/actions done after the permit "C-date" up to the date of this extension request.</i> <i>For Other than the 1st Application for Extension of Time: List any work/actions done after the permit C-Date but prior to the most recent extension.</i>	COST
8/2000	3-phase power system POA-2	\$33,655
10/2001	Maple Street and Linden Lane Waterline Improvements	\$80,000
1/2002	Westech Engineering invoice (POA-2 alteration)	\$1,284
6/2002	City council expenditure statement, Emery & Sons	\$80,557
9/2003	City of Dundee Water System Master Plan	\$60,000
2/2004	Maple Street Waterline Improvements	\$39,000
CHART-I (continued)		
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED DURING THE MOST RECENT EXTENSION OF TIME GRANTED	COST

	<i>For Other than 1st Application for Extension of Time: List any work/actions done during the time period most recent extension.</i>	
9/29/2006	Date of the last "Extended From Date" for complete application of water (used on the most recently approved extension of time).	
10/2008	New pump controller install POA-2	\$6,650
6/2015	POA-1 pump and motor replacement	\$9,220
7/2015	POA-1 water level transducer install	\$1,500
12/2021	POA-3 inspection	\$5,930
11/2021	10-year WMCP update	\$23,100
10/1/2025	Last "Extended To" date for complete application of water (resulting from the most recently approved extension of time).	
INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED AFTER THE MOST RECENT EXTENSION OF TIME GRANTED <i>List work/actions done after the last authorized date for complete application of water has passed.</i>	COST
NA	NA	NA
Total Cost to Date		\$1,200,000+

[OAR 690-315-0070(3)(f)]

5. Provide evidence of compliance with conditions contained in the original permit, in any previous extension(s), and/or in any permit amendments (Chart II), or the reason the condition was not satisfied (Chart III).

Conditions requiring a response in the extension of time application include those which:

- Stipulate a specific date by which the permit holder was to accomplish a specific action, such as a condition that requires plans and specifications for a reservoir, a Water Management and Conservation Plan, a ground water monitoring plan or some other document which "...shall be submitted...within two years of permit issuance." If your permit requires submittal of a Water Conservation and Management Plan, please indicate the date the plan was submitted to or approved by OWRD, or whether it is still being drafted, etc.;
- and/or
- Are triggered by the use of water, but do not stipulate a specific date. These conditions represent a milestone in development of the project and use of water, such as the permit holder, "shall install...a water meter or other suitable measuring device approved by the Director...before any use of water begins." Another common condition triggered by the use of water is that; "fish screens are to be installed according to Oregon Department of Fish and Wildlife specifications."



TIP:

Any supporting documentation submitted to demonstrate compliance with time-sensitive permit conditions or any conditions from prior permit extension(s) must be clearly referenced and may include, but is not limited to: well construction logs; static water level measurement reports, annual water use reports; a Water Management and Conservation Plan; an alternative long-

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term water supply plan; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit. If needed, please contact OWRD for assistance in identifying and/or interpreting which conditions in the water permit are pertinent to the Application for Extension of Time.

- 5-A) Describe how each condition has been complied with. Include conditions contained in the original permit (and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time). Include the date when the condition was satisfied.

CHART-II

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
1	Multiple	Each wellhead is metered. Water use has been measured and reported since at least 2002. 1992 bid documents indicate installation of "wellhead telemetry" at time of drilling.
2	11/12/1992	Latest WMCP approved 11/2023
3	2005	Water levels submitted for each POA in 2005. Water use began before this. Initial Water levels were submitted by the driller but appear inaccurate
4	Multiple	Water levels have been submitted sporadically from 2005-2024. These were not always in March. (March WLs submitted for all wells 2020-2025)
5	2/14/1992	24-hour pump tests included with well logs in this application.
6	11/21/91	All 3 POAs began construction
7	2/11/1992	3 POAs (YAMH-1656, 1659, YAMH-1658) were completed by 2/11/1992

** Condition No: Attach a copy of the permit and, if applicable, any prior permit extensions or permit amendments with conditions identified and hand-numbered in a continuous number sequence throughout all such documents. Responses to Items 5-A and 5-B should reference each condition by number to correspond with the hand-written number sequence on the attached documents containing permit conditions.

- 5-B) If applicable conditions have NOT complied with all, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-III

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
8	10/1/2050	The City has prioritized other major water system development projects that were more cost-effective and had larger impacts on its drinking water capacity. It holds this permit for anticipated future demand resulting from forecasted development and population growth.

[OAR 690-315-0070(3)(g)]

6. Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit. Report water use as of June 29, 2005, or the C-Date of the permit (whichever is later).

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For Municipal and Quasi-Municipal Water Use Permits
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TIP: Documentary evidence substantiating the maximum instantaneous rate, or duty if applicable, of water appropriated may include, but is not limited to: water meter records; dedicated electrical meter records; business records; and/or a sworn affidavit.

6-A) For Surface Water Permit Extensions:



TIP: Report in the same units of measurement as specified in the permit. In this section, report only water use made under THIS permit:

~~Maximum instantaneous rate (as of June 29, 2005, or C-date (whichever is later)) =~~
~~_____ cfs, _____ or~~
~~_____ (cubic feet per second)~~

~~Maximum instantaneous rate (as of June 29, 2005, or C-date (whichever is later)) =~~
~~_____ gpm, _____ or~~
~~_____ (gallons per minute)~~

~~_____ Acre Feet stored as of June 29, 2005, or C-date (whichever is later) = _____ AF~~

6-B) For Ground Water Permit Extensions:



TIP: Include information from ALL wells that pertain to this permit, including drilled wells not currently used.

CHART-IV

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED						
			Well Log Number E.g. MULT 60493	Well Tag Number E.g. # 40151 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See below)	Maximum instantaneous rate used by June 29, 2005, or C-date (whichever is later) -- from this well - - under this permit only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	If yes, provide the rate used from this well under each water right. (Typically the total of all uses from a single well will not exceed the well's pumping capacity.)	
								Permit, Certificate, or Transfer No.	Rate (CFS or GPM)
POA-1	Spring Well 8	Yes ☒ No ☐	YAMH-1656	NA	Yes ☒ No ☐	0.39 cfs	Yes ☐ No ☒	-	
		-							
POA-2	First St Well 9	Yes ☒ No ☐	YAMH-1659	L-48794	Yes ☒ No ☐	0.29 cfs	Yes ☐ No ☒	-	
		-							
POA-3	Alder St Well 10	Yes ☒ No ☐	YAMH-1658/52 883	NA	Yes ☒ No ☐	0.16 cfs ¹	Yes ☐ No ☒	-	
		-							
Total instantaneous rate from all wells utilized under this permit used as of June 29, 2005, or C-date (whichever is later)						0.84			

1. POA-3 sustained significant damage to its casing and needs repairs to re-enter operation. Last used 9/2023.

~~6-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/he filed with OWRD? Yes ☐ No ☐~~

~~If a Permit Amendment Application has been filed: Transfer No. T _____~~

~~Well # _____: Actual location: _____~~

~~Well # _____: Actual location: _____~~

[OAR 690-315-0070(3)(h)]

7. Provide an estimate of the current population served under this permit and a description of the methodology(ies) used to make the estimate.

Estimate the current population that is supplied water by the municipality or quasi-municipality and if applicable, current population served under this permit. Describe how that estimate was derived, or cite the source document from which the data was obtained. Include any calculations, formulas, supporting documentation, including copies of source documents.

Current Population: 3,249 as of Year: 2024

Methodology used to estimate current population served: 2024 PSU Certified Population estimate for the City of Dundee

[OAR 690-315-0070(3)(p)]

8. Report the current peak water demand of the current population served, and a description of the methodology(ies) used to make the estimate.

Identify the total rate, or duty if applicable, of water being used to meet the current peak demand for water from all water rights held by the municipal or quasi-municipal entity. This must be reported in the same units of measurement as specified in the permits, being cfs (cubic feet per second), gpm (gallons per minute), and/or AF (acre-feet – usually only specified on a reservoir right to store water). This total rate should be based on the information provided on "Attachment A" in the column named "Max Amount of Beneficial Water Used to Date" [under Item 10-A (a)].

Current Peak Water Demand (MDD): 1.06 MG, 1.55 cfs as of Year: 2024

Methodology used to estimate current peak demand: Average daily demand over 5 years (2017-2021) multiplied by a 2.8x peaking factor to approximate maximum day demand in 2021 (1.1 MGD), converted to cfs (2023 WMCP). ADD was converted to gallons per capita per day (gpcpd) and adjusted proportionally based on population change since the publication of the 2023 WMCP (decrease from 3,371 to 3,249).

[OAR 690-315-0070(3)(k)]

9. Provide a summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if

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any), relating to the project that have significantly delayed completion of construction or perfection of the right.



TIP:

Such events may include, but are not limited to: the size and scope of the project; financing and/or cash flow issues; local referendums or initiatives; actual growth rates; economic downturns; loss of territory to annexation; water conservation efforts; the need to meet other governmental requirements relating to the project; natural disasters and severe weather; and/or any other events over which the water right permit holder had no control and which delayed development under the permit.

The City manages a portfolio of groundwater and surface water rights with many different PODs and POAs. It must make decisions about development and maintenance of its water system that provide the most financially-efficient path. Currently, many of the City's water rights are held in anticipation of significant population growth over the next 20 years, as referenced in the City's 2023 WMCP and in communication with the City during CwM's site visit. Under the forecasted population growth scenario, the City will have a need for significantly more water supply, and will continue to develop beneficial use under its current water right portfolio (2023 WMCP). The loss of City Well-10 (POA-3) as a source due to a cracked casing in 2023 also significantly impacted the City's ability to fully appropriate the water authorized under this right. The City plans to rehabilitate the damaged well within the requested permit extension window. In addition, the extended permit window has spanned multiple global crises, including the 2008 Global Financial Crisis and the 2020 COVID-19 Pandemic. Both of these events limited the City's ability to plan and execute large capital projects such as those required to develop Permit G-12685. The City is considering the development of this water right within the proposed extension window to support forecasted development and population growth of greater than 50% over the proposed extension window (2023 WMCP; PSU Population Research Center, 2024). In addition to development of this water right, the City is also engaged in active talks with nearby municipalities to organize a regional water right agreement, which occupies valuable time and resources.

[OAR 690-315-0070(3)(l)]

- 10-A. Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use. The Application must demonstrate that the full rate authorized by the permit can be put to beneficial use within the time being requested.

In developing your estimated demand projections for the permit being extended, you should include the following items:

a) Inventory of Water Rights Held

List all water rights held, including this permit, currently held by the permit holder. Use the format shown in "Attachment A" (see last page of this Application for Extension of Time). A link to the Water Rights Information System (WRIS), accessed

through OWRD's website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> may be a helpful source for compiling this information.

Use the "Use Limitations" column to identify and explain why any water right is not currently utilized to meet current peak water demands, or which is used only in a limited capacity.



TIP: Use limitations include any factors affecting the use of a water right, such as: used for system redundancy; used for emergency back-up water supply; climate patterns or turbidity result in seasonal unavailability; not used due to water quantity issues, etc.

b) Water Supply Contracts and/or Agreements

List any water supply contracts or agreements for water that will be supplied by the permit holder to other entities.

NA

List any water supply contracts or agreements for water that will be supplied from other entities that the permit holder will depend on to meet its own current or anticipated future water needs.

NA

c) Projected Population

Identify the projected population growth rate. The population projection must be extended out, at a minimum, to the year requested for complete application of water. Describe the methodology used to create the population projections such as historical growth rates or any factors affecting growth trends.

Population Growth Rate: 1.2%

Projected Population: 7,428 as of Year: 2050

Methodology used to estimate projected population and population growth rate:

	PSU Forecast for Currently Developed Portion of UGB	Riverside District Forecast	Total Population
2025	-	-	3,249
2040	3,632	2,619	6,251
2050	3,809	2,619	7,428

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Based on information in the 2023 WMCP, the City anticipates an increase in population. This is based on projected population growth of the existing population of 1.2% per year and the development of additional housing areas in the City. Population growth and associated demand are shown in the included table. Population projections are based on Portland

State University's population growth projections for the City as well as the projected buildout population of the planned Riverside District development, which should be fully developed in the next 20 years.

d) Future Peak Water Demands

Identify the projected peak water. The peak water demand projection must be extended out, at a minimum, to the year requested for complete application of water, and must demonstrate that full beneficial use may be accomplished within the time requested. Describe the methodology used to create the water demand projection, such as historical growth rates or any factors affecting growth trends. Include a summary of how the subject permit, and other water rights and /or supply contracts held by the permit holder are planned or expected to be used to meet anticipated future water needs

Projected Peak Water Demand: 3.76 cfs as of Year: 2050

Methodology used to estimate peak water demand:

In its 2023 WMCP, Dundee projected demand using a per capita demand approach. Specifically, the City multiplied projections of population presented in Section 5.2 in 2032 and 2042 by a water use factor in units of gallons per person per day (gpcd). The water use factor was calculated by dividing the highest recent MDD by the estimated population of City residents in that year. The highest MDD occurred in 2021 (1.1 mgd or 1.7 cfs constant rate, 2.8x peaking factor) resulting in a demand of 327 gpcd based on a population of 3,371. The demand forecast shows MDD reaching 2.4 mgd (3.76 cfs) by 2050.

	Population	MDD (mgd)	MDD (cfs)
2021 (actual)	3,371	1.1	1.7
2024 (estimated)	3,249	1.06	1.5
2040	6,251	2.04	3.16
2050	7,428	2.4	3.76

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SEP 24 2025
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e) Potential Growth

Describe the potential for growth of the service area (such as the annexation of lands or new industrial and/or commercial ventures locating within the service area) and describe how those projects are expected to affect future water demands.

From 2023 WMCP: "Dundee anticipates expansion of its service area to include the Riverside District (also known as the Riverview District) within the 20-year planning period. According to a study conducted by the City in 2019, full build-out of the district would occur within 15 years of initial construction. The City currently predicts construction [of the Riverside District] will commence in 2025, with build-out of the area occurring by 2040" (2023 WMCP).

f) Completion Date

Provide the date by which the water development is anticipated to be completed and water put to full beneficial use. **October 1, 2050**

[OAR 690-315-0070(3)(l)]

- 10-B. ~~Application for Extension of Time requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.~~



TIP: If you are requesting an extension of greater than 50 years, it is very important to provide all available documentation (including estimates, projections, other related information, and all associated data) supporting the position that the demand projection is consistent with the amount and type of lands and uses to be served by the permit holder.

Show that permit holder's potential for future growth and expansion is feasible and consistent with the amounts and types of lands and uses proposed to be served. Information that may be addressed includes, but is not limited to: land use plan(s); current service area(s) in relation to the urban growth boundary; amounts of lands currently un-served and available for future development; and/or low density vs. high density areas.

[OAR 690-315-0070(3)(j) and OAR 690-315-0070(3)(m)]

11. Provide an estimate of the costs to complete water development and summary of the future plan and schedule to complete construction and/or perfect the water right.

Considering the demand projections in Item 10-A, describe major future work and actions that must be accomplished in order to fully develop and perfect the subject permit. Provide a list of the major planning, work and/or actions needed, the approximate time frames, and estimated costs anticipated to complete the water development within the parameters of this permit.

The review of a Capital Improvement Plan (CIP) or other system infrastructure improvement plans may help when formulating a response.

CHART-V

APPROXIMATE DATE RANGE	WORK AND ACTIONS TO BE ACCOMPLISHED	ESTIMATED COST
By 10/1/2050	Assess, recondition, or replace Well-10, which has a cracked casing and is currently not used	\$1,250,000
Year: 2050	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
Estimated Total Cost to Complete Development		\$1,250,000

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[OAR 690-315-0070(3)(n)]

12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

A justification should integrate information from Items 5-B, 6-A or 6-B, 9, 10-A, and 11 of this application, and should include any other information or evidence to establish that the requested amount of time is reasonable, and that you will be able to complete the project within the amount of time requested.

The City needs the requested time to complete the full application of water under Permit G-12685 due to multiple reasons:

- *Municipal water planning horizons range from 20 to 50 years, much like the water demand forecasts in the required Water Management and Conservation Plans and Water Master Plans. Development of new green-field projects within the City's UGB include a complex process of annexation, land planning, development proposal review, funding acquisition via loans or grants and the design, contracting and construction of water and other utility service infrastructure to support proposed growth options. From present day, these municipal development activities can reasonably require 10 to 20 years to develop and complete.*
- *Additionally, the City is just beginning to see new development within its service area, including the "Riverside District", which will contribute an additional 1,200 people by 2032 and 2,619 people by 2042 and two hotels with up to 90 rooms. The development of these areas will cause a rapid increase in the City's demand which will necessitate the development of the additional drinking water capacity afforded by this Permit.*
- *The City has multiple water resource assets to consider for development. These include a combination of surface water and groundwater certificates and permits. Developing strategies to optimize these assets is currently under review by the City and may include aquifer storage and recovery, construction of an independent City owned water treatment plant, teaming with other local municipal partner or joining a water consortium to develop Willamette River surface water rights at a co-owned treatment plant. These strategies and negotiations develop over years of discussion and depend heavily on available state and federal funding, home development pressure, and the political priorities set by City Council of each of the participating municipal entities. Alignment of these variables can require 10, 20 or more years before a new water source project is created and fully developed. Based on these common factors a 25 year extension is reasonable.*
- *Developing a new water source can take many years of technical assessment in the form of feasibility studies. Feasibility studies do not always result in a viable project, and the City might require ten or more year to develop another water source option. Aquifer assessments in the form of costly and complex subsurface investigations to classify the subsurface in the area where the POA-3 (Well-10) might be installed will take about 2 years to complete but does not guarantee that the new water source will be successful. The City's last feasibility study (for a collector well under permit S-44462) was completed in 2014. The result of that study found that a collector well was not feasible at the selected location. Since that time the City has not had the funding to*

continue with further subsurface investigations. It is reasonable that when multiple feasibility studies are required to successfully complete a new water source, the timeline for development can be on the order 20 years or longer.

- *Finally, the City anticipates additional revenue to come from the increases in service area population, which will support the development of new water supply infrastructure.*

[OAR 690-315-0070(3)(e)]

13. Provide any other information you wish OWRD to consider while evaluating the Application for Extension of Time

Development of additional housing within the Dundee UGB aligns with the Oregon Housing and Community Services Department's (OHCS) Statewide Housing Plan, which aims to increase the availability of housing to address statewide housing shortages. Additional housing will require additional water resources.

[OAR 690-315-0070(3)(q)]

14. ~~For Municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, provide a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit.~~

This groundwater permit does not have required actions to protect fish species.

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SEP 24 2025

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Water Rights Inventory for (Name of Entity) City of Dundee
(List of All Permits, Permit Amendments, Certificates, Transfers, New Applications)

Attachment "A"
For Extension of
Time Application

Ground Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. ³ or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diversion Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date ⁴	Notes or Limitations to water use ⁵
G-6331	G-6017	7/22/1974	NA	NA	CRBG, Late Tertiary Sediments	Springs Well 1	Municipal	0.97	0.19	10/1/2025	NA
						Well 4 River Well			0.11		
						Springs Well 2			0.06		
						Old River Well			0		
G-1217	G-1263	11/28/1958	29157	NA	CRBG	Deep Well 3	Municipal	0.18	0.18	NA	NA
G-10904	G-10148	3/24/1983	61759	NA	CRBG	Martsof Wells 5 & 6	Municipal	0.60	0.60	NA	NA
G-11866	G-11058	3/24/1988	87588	NA	CRBG	Springs Well 7	Municipal	0.33	0.33	NA	NA
G-12568	G-12685	6/7/1991	NA	NA	CRBG	Springs Well 8	Municipal	1.78	0.39	10/1/2025	NA
						1 st Street Well 9			0.29		
						Alder Street Well 10			0.16		
G-14066	G-17484	5/19/1995	NA	T-11928	CRBG	Well 13 Watershed	Municipal	0.5	0.5	10/1/2025	Combined rate not to exceed 0.8 cfs.
						Springs Well 11/13					
G-14070	G-17485	5/19/1995	NA	T-11928	CRBG	Springs Well 11/13	Municipal	0.5	0.05	10/1/2025	

³ P.A. = Permit Amendment

⁴ Date by which full application of water is to be made within the terms and conditions of the permit (date will be specified in the permit or on the last extension Final Order).

⁵ If a particular water right certificate, permit, or transfer is not being utilized to meet current demands, or its use is somehow limited due to quality, seasonal, etc. limitations, or if a the actual diversion rate is less than a certificated rate, please explain why.

7/19/2021

Application for Extension of Time

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SEP 24 2025

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WRAD

Municipal and Quasi-Municipal Water Use Permits

Surface Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diversion	Authorized Completion Date	Notes or Limitations to water use
									Maximum Instantaneous Rate Diverted to Date (cfs)		
S-9028	S-5932	6/20/1923	8781	NA	Two Springs, Otter/Harvey Creek	Two Springs	Municipal	0.5 cfs	0.5	NA	NA
S-12629	S-8978	3/25/1929	8817	NA	Two Springs, Otter Brook/Harvey Creek	Two Springs	Domestic, fruit and nut dryers and fruit packing house	0.05 cfs	0.05	NA	NA
S-18173	S-13880	6/8/1939	14654	NA	Mossy Springs, Otter Brook/Harvey Creek	Mossy Spring	Domestic	0.0007 cfs	0.0007	NA	NA
S-22077	S-17367	11/7/1946	17145	NA	Unnamed Stream	Harvey Creek	Municipal	0.25	0.25	NA	NA
S-58951	S-44462	7/24/1979	NA	NA	Willamette River	Willamette River	Municipal	4.0	0	10/1/2025	2023 WMCP FO limited development to 1.10 cfs

Pending New Water Right Applications

Application No.	Priority Date	Source	Proposed Use	Proposed Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Received
SEP 24 2025

OWRD 7/19/2021

WRAD
Municipal and Quasi-Municipal Water Use Permits

Application for Extension of Time

Attachment B
Permit G-12685

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SEP 24 2025
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Attachment B

STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

Received
SEP 24 2025
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Measurement, recording and reporting conditions:

1. A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

Application G-12568 Water Resources Department

PERMIT G-12685

as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

2 Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

- (a) An average water level decline of three or more feet per year for five consecutive years; or
- (b) A total water level decline of fifteen or more feet; or
- (c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

(2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.

(3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

3 (a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.

4 (b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.

(c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

STANDARD CONDITIONS

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

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

- 5 Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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

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

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

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

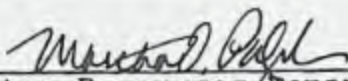
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8

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued August 21, 1996


Water Resources Department
Director

Received
SEP 24 2025
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Application G-12568 Water Resources Department
Basin 02 Volume 17 CHEHALEM CREEK & MISC
MGMT CODES 7IG, 7IR

PERMIT G-12685
District 16



Oregon

John A. Kitzhaber, MD, Governor

G12568

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.wrd.state.or.us

November 27, 2012

City of Dundee
Attn: Rob Daykin, City Administrator
PO Box 220
Dundee, OR 97115

Subject: Water Management and Conservation Plan

Dear Mr. Daykin:

Thank you for your response to my review of the City of Dundee's (City) Water Management and Conservation Plan (plan) and submittal of final revisions to the plan.

The Department has reviewed the final revised plan and determined it to be generally consistent with the relevant requirements under OAR Chapter 690, Division 086. Therefore, please find the enclosed final order approving the City's Water Management and Conservation Plan and authorizing the diversion of up to 1.55 cfs of water under Permit S-44462 and up to a combined total not to exceed 0.8 cfs of water under Permits G-12736 and G-13035. *(This authorization does not allow the use of water in excess of the quantity limitation specified in each permit, being no more than 0.5 cfs under Permit G-12736 and no more than 0.5 cfs under Permit G-13035.)*

The attached final order specifies that:

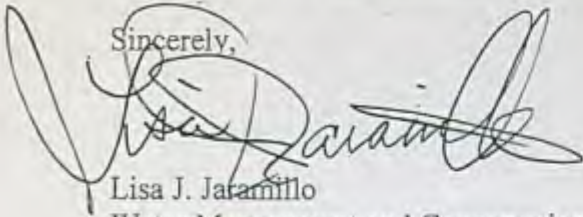
- The City of Dundee's plan shall remain in effect until **November 21, 2022**;
- The City is required to submit a progress report to the Department by **November 21, 2017**, detailing progress made toward the implementation of conservation benchmarks scheduled in the plan and documenting the City's diligence in pursuing the development of water under Permits S-44462, G-12736 and/or G-13035; *and*
- The City must submit an updated Water Management and Conservation Plan to the Department by **November 21, 2021**.

***NOTE:** The deadline established in the attached final order for submittal of an updated water management and conservation plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of Dundee from any existing or future requirement(s) for submittal of a water management and conservation plan at an earlier date as established through other final orders of the Department.*



We appreciate your cooperation in this effort. Please do not hesitate to contact me at 503-986-0880 or Lisa.J.Jaramillo@wrд.state.or.us if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lisa J. Jaramillo', written over a horizontal line.

Lisa J. Jaramillo
Water Management and Conservation Analyst
Water Right Services Division

Enclosure

cc: WMCP File
Appl. S-58951 (Permit S-44462)
Appl. G-6331 (Permit G-6017)
Appl. G-12568 (Permit G-12685)
Appl. G-14066 (Permit G-12736)
Appl. G-14070 (Permit G-13035)
Mike McCord, District #16 Watermaster
Murray, Smith & Assoc., Inc., Attn: Mike McKillip, P.E., 121 SW Salmon, Suite 900, Portland, OR 97204

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water	)	FINAL ORDER APPROVING A
Management and Conservation Plan for	)	WATER MANAGEMENT AND
City of Dundee, Yamhill County	)	CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Findings of Fact

1. The City of Dundee (City) submitted a Water Management and Conservation Plan (plan) to the Water Resources Department (Department) on November 15, 2011. The plan was required by conditions set forth in the final orders approving extensions of time for Permits G-6017, G-12685, G-12736, G-13035 and S-44462.
2. The Department published notice of receipt of the plan on November 22, 2011, as required under OAR Chapter 690, Division 086. No comments were received.
3. The Department provided written comments on the plan to the City on February 9, 2012, and in response, the City submitted a final revised plan on Nov. 14, 2012.
4. The Department reviewed the final revised plan and finds that it contains all of the elements required under OAR 690-086-0125.
5. The projections of future water needs in the plan demonstrate a need of up to 1.55 cfs of surface water available under Permit S-44462 and/or up to 0.8 cfs of ground water under Permits G-12736 and G-13035 to help meet overall demands of 2.66 cfs (1.72 million gallons per day) anticipated in 20 years. These projections are reasonable and consistent with the City's land use plan. The development of the sources authorized under these permits is dependent upon budgetary issues, as well as the physical attributes of the surface water and ground water sources themselves.

This is a final 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 137-004-0080, you may petition for judicial review or 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.

6. The City's system is fully metered and has a rate structure that includes a base rate and volumetric charge. Unaccounted-for water is estimated at 18.6% percent.
7. The plan includes 5-year benchmarks for implementation and/or continuation of the following water conservation activities: full metering of the water system; replacement of small customer meters, as needed; performing annual water audits; maintaining a rate structure based on the amount of water used; budgeting funds annually toward replacement of aging water mains; and including water conservation information in the City's summer newsletter distributed to customers in July of each year and posted on the City's web site.
8. The plan includes 5-year benchmarks to develop: a maintenance and calibration methodology for production meters and large-size meters; a leak detection and repair methodology to work toward reducing annual water loss to 10 percent; and a systematic and documented methodology for tracking and/or estimating authorized and unauthorized unmetered water use. The plan also includes 5-year benchmarks to evaluate the feasibility of developing: a non-potable water supply as part of the new wastewater treatment facility; a financial and technical assistance program to encourage implementation of conservation measures; a supplier-financed fixture retrofitting and replacement program; and any other identified measures that would improve water use efficiency.
9. The plan identifies ground water, the Willamette River, Mossy Springs, Unnamed Springs and an Unnamed Stream formed by springs as the sources of the City's water rights. Additionally, the plan accurately and completely describes the listed fish species that occur in the Willamette River in the vicinity of the City's point of diversion, being Upper Willamette River Chinook (*federally-listed as Threatened*) and Upper Willamette River Steelhead (*state-listed as Sensitive-Vulnerable and federally-listed as Threatened*). The plan also accurately and completely identifies the water quality parameters for which the Willamette River has been 303(d) listed by the Oregon Department of Environmental Quality.
10. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of three stages of alert with concurrent curtailment actions.
11. The diversion of water under Permits S-44462, G-12736 and/or G-13035 will be initiated and/or expanded during the next 20 years and is consistent with OAR 690-086-0130(7), as follows:
 - a. As evidenced by the 5-year benchmarks described in Findings of Fact #7 and #8, the plan includes a schedule for development of conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources;
 - b. Considering that the water savings generated by the conservation measures established in this WMCP cannot fully meet the City's projected 20-year peak demand, and that the wholesale purchase of water from the nearby Cities of Dayton and/or Lafayette is not practical due to the cost of building infrastructure necessary to transport water and because excess water supply is not available from those cities, the increased diversion of water under Permits S-44462, G-12736 and/or G-13035 is the most feasible and appropriate water supply alternative available to the City; *and*

- c. As the City pursues future development of a surface water supply from the Willamette River, they will be required to address any mitigation issues that may arise as a result of the Federal Endangered Species Act, Clean Water Act and/or Safe Drinking Water Act. Additionally, the City is required to comply with conditions set forth in the Final Orders issued by the Department on October 6, 2009 approving Extensions of Time for Permits S-44462 and G-6017 to protect minimum fish flow needs in the Willamette River in order to maintain the persistence of listed fish species in the portions of the river affected by the City's water use under these permits.

Conclusion of Law

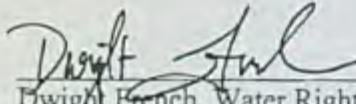
The Water Management and Conservation Plan submitted by the City of Dundee is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

1. The City of Dundee Water Management and Conservation Plan is approved and shall remain in effect until November 21, 2022, unless this approval is rescinded pursuant to OAR 690-086-0920.
2. The limitation of the diversion of water under Permit S-44462 established by the Extension of Time approved on October 6, 2009 is removed and, subject to other limitations or conditions of the permit, the City of Dundee is authorized to divert up to 1.55 cfs under Permit S-44462.
3. The limitations of the diversion of water under Permits G-12736 and G-13035 established by the Extensions of Time approved on September 29, 2006 are removed and, subject to other limitations or conditions of the permits, the City of Dundee is authorized to divert a combined total of up to 0.8 cfs under Permits G-12736 and G-13035. This condition does not allow the use of water in excess of the quantity limitation specified in each permit, being no more than 0.5 cfs under Permit G-12736 and no more than 0.5 cfs under Permit G-13035.
4. The City of Dundee shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 086 (effective November 1, 2002) within 10 years and no later than November 21, 2021.
5. The updated plan (*referenced in Condition #4 above*) shall provide a description of the City's development of Permits S-44462, G-12736 and/or G-13035. The description should identify: 1) actions taken to construct infrastructure necessary to develop the authorized source(s) of water under the permits; 2) compliance with any mitigation actions required as a result of development of the permits; and 3) the extent to which water has been diverted under each of the permits (*i.e., identify the maximum rate of diversion of water under each of the Permits S-44462, G-12736 and/or G-13035*).
6. The City of Dundee shall submit a progress report by November 21, 2017, containing the information required under OAR 690-086-0120(4) and information documenting the City's diligence in pursuing the development of water under Permits S-44462, G-12736 and/or G-13035 (*see Condition #5 above*).

7. The deadline established herein for the submittal of an updated Water Management and Conservation Plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of Dundee from any existing or future requirement(s) for submittal of a Water Management and Conservation Plan at an earlier date as established through other final orders of the Department.

Dated at Salem, Oregon this 21 day of November, 2012.



Dwight French, Water Right Services Administrator for
PHILLIP C. WARD, DIRECTOR

Mailing date: NOV 27 2012

WATER SYSTEM MASTER PLAN

FOR

CITY OF DUNDEE

SEPTEMBER 2003



EXPIRES
6/30/04



EXPIRES: 12-31-03

Prepared by:

MURRAY, SMITH & ASSOCIATES, INC.

Engineers/Planners
121 SW Salmon, Suite 900
Portland, Oregon 97204

In association with:
GROUNDWATER SOLUTIONS, INC.
3758 SE Milwaukie Ave.
Portland, OR 97202

And:
FINANCIAL CONSULTING SOLUTIONS
GROUP, INC.

8642 154th Ave. NE
Redmond, WA 98052

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03-0597.106

JUL 13 2006
WATER RESOURCES DEPT
SALEM, OREGON

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WATER RESOURCES DEPT
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EXECUTIVE SUMMARY

Authorization

In February 2003, the firm of Murray, Smith & Associates, Inc. was authorized by the City of Dundee to prepare this Water System Master Plan.

Purpose

The purpose of this study is to perform a comprehensive analysis of the City of Dundee's water supply and distribution system, to identify system deficiencies, to determine future water distribution system supply requirements, and to recommend water system facility improvements that correct existing deficiencies and that provide for future system expansion.

Compliance

This plan complies with water system master planning requirements established under Oregon Administrative Rules (OAR) for Public Water Systems, Chapter 333, Division 61 and applicable elements of Division 86.

Background and Supply Sources

1.74
85
The City of Dundee water service area currently serves a population of approximately 2,882 people and provides potable water to residential, commercial, and industrial services. The City is supplied water from nine groundwater wells located at five sites. All but two of these wells are City owned. The City owns an additional well, referred to as Well No. 4, which is no longer operational. The wells have a total combined production capacity of approximately 1.14 million gallons per day (mgd) under normal operating conditions. Water from these wells is either pumped into water storage reservoirs, pumped into the water distribution system by on-site booster pumps, or pumped directly into the distribution system by the well pumps.

Service Area

The study area for this plan is the City's existing urban City limits which include the City's entire urban growth boundary (UGB) and non-buildable flood plain areas. The study area is illustrated on Figure ES-1. The City of Dundee Urban Growth Boundary (UGB), as defined by the City's comprehensive plan, encompasses approximately 747 acres, while the City limits include approximately 900 acres. Approximately 153 acres of land inside the City limits is outside of the UGB and is non-developable flood plain land. The City water system currently provides service to the area within the UGB as well as to several connections outside of this boundary.

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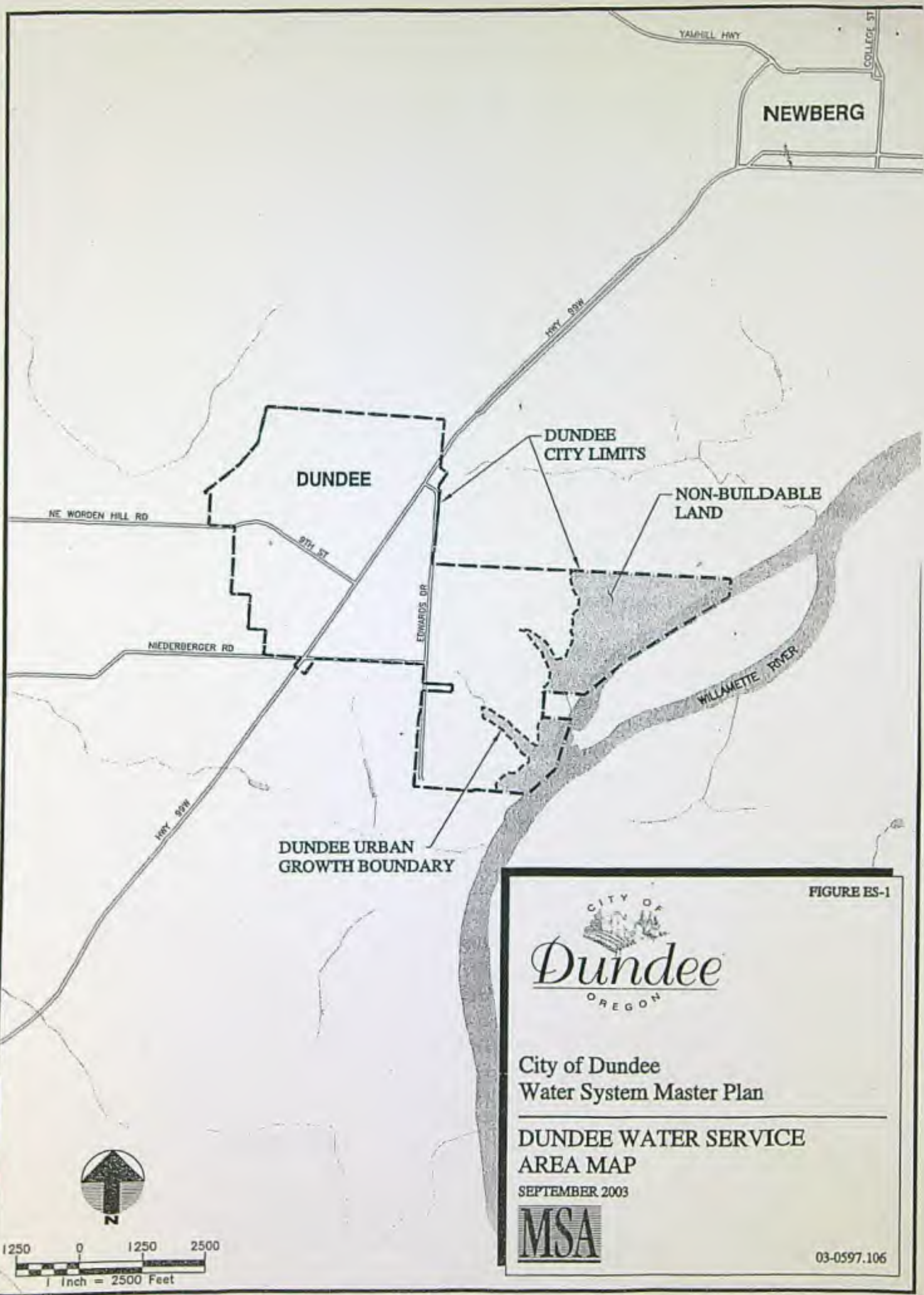


FIGURE ES-1



City of Dundee
Water System Master Plan

DUNDEE WATER SERVICE
AREA MAP

SEPTEMBER 2003



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Planning Period

The planning period for this master plan is 20 years. The combination of the Buildable Lands Inventory and Urbanization Project report and probable infill densities estimate saturation development within the Urban Growth Boundary to occur in approximately the year 2025. Recent population projections developed from the 2000 U.S. Census indicate that saturation development will occur in 2023. With the estimate of saturation development expected to occur in approximately 20 years, all planning calculations will be based on saturation development conditions. Population projections and water demand estimates are presented in detail in Section 3.

Local Hydrogeologic Setting

The City of Dundee is located west of the Willamette River on a topographic bench at the edge of the Willamette Valley. The elevation of the City is approximately 200 feet above mean sea level (msl). The local geology of the hills west of Dundee is dominated by a weathered basalt formation that has inspired the naming of these hills as the Red Hills of Dundee. These hills rise above the town to the west and northwest to an elevation of approximately 1,000 feet above msl. These highland areas supply the majority of recharge to streams and groundwater in the area from both rain and occasional snow melt. Rainfall in the area is typical of the Willamette basin and averages over 40 inches per year.

Water Rights Summary

Water rights associated with each of the production wells is summarized in Table D-1 in Appendix D. Also presented in this table are all water rights held by the City, including those for abandoned and non-operational wells as well as a surface water right on the Willamette River. Included in this table is Well No. 4, also referred to as the River Well, which is no longer operational.

Pressure Zones

The City of Dundee's water service area is divided into four pressure zones. Pressure zones are usually defined by ground topography and designated by overflow elevations of water storage facilities or outlet hydraulic grades of pressure reducing facilities serving the zone. A description of each of the City's pressure zones is presented in Section 2 and includes a description of the service area, storage facilities, pumping facilities and groundwater wells in each of the zones.

Storage Reservoirs and Pump Stations

The City of Dundee's water system contains three storage reservoirs, with a total combined storage capacity of approximately 0.65 MG. The City also owns and maintains a clearwell at the Spring Well site with a volume of approximately 6,000 gallons. The City's water system

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includes two booster stations. These are the Clearwell booster station, which the City owns and operates and the Pruitt pump station, a privately owned station that the City operates.

Distribution System

The City's water distribution system is composed of various pipe types in sizes up to 12 inches in diameter. The total length of piping in the service area is approximately 117,482 feet or approximately 22.3 miles. The pipe types include cast iron, ductile iron, galvanized iron, asbestos cement or transite, steel, copper, and polyvinyl chloride (PVC). The majority of the piping in the system is ductile iron, cast iron and steel.

Population Estimates

The City of Dundee currently supplies water to approximately 2,882 people through approximately 1,000 residential service connections. Based on current City data, there are approximately 2.8 persons per equivalent dwelling unit (EDU). This results in approximately 1,030 existing dwelling units (DUs). Forecasted population estimates are presented in Table ES-1.

**Table ES-1
Population Forecast Summary**

Year	Population
2002	2,770
2003	2,882
2008	3,515
2013	4,286
2018	5,228
2020	5,750
2023 (UGB Saturation Development)	6,350

Water Demand Estimates

Water demand estimates were developed from a review of historical water consumption records and data provided by the City and regional population forecasts specifically generated to reflect the water service area and areas summarized in Table ES-2.

Water demand projections were further developed for each pressure zone based on the area served, population projections, and water use data. Table ES-3 presents a summary of these demands at saturation development.

**Table ES-2
Population Forecasts and
Estimated Water Demand Summary**

Year	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
2003	2,882	0.42	0.92	1.38
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (UGB Saturation Development)	6,350	0.92	2.03	3.05

**Table ES-3
Pressure Zone Water Demand Summary
at Saturation Development**

Pressure Zone	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
Upper Zone	195	0.03	0.06	0.09
Intermediate Zone	740	0.11	0.24	0.36
Lower Zone	5,415	0.78	1.73	2.60
All Zones	6,350	0.92	2.03	3.05

Recommended Capital Improvements

A system analysis was performed on all elements of the City's water system and from this analysis recommendations were developed. Recommended capital improvements are summarized in Table ES-4. The table provides for prioritized project sequencing by illustrating fiscal year (FY) project needs for each facility or improvement category. An estimated project cost has been developed for each improvement project recommendation presented in Section 6. Itemized project cost estimate summaries are presented in Appendix C. This appendix also includes a cost data summary for recommended water main improvements developed on a unit cost basis. Project costs include construction costs and an allowance for administrative, engineering and other project related costs. The proposed improvements listed are phased and sequenced for construction over the planning period of 20 years. A detailed discussion of these recommendations is present in Section 6.

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Study Recommendations

It is recommended that the following actions be taken:

1. Formally adopt this study as the City of Dundee's Water System Master Plan for the water service area.
2. Adopt the prioritized recommended system improvements described in Section 6 and specifically listed on Table ES-4 as the capital improvement plan (CIP) for the water service area.
3. Develop and adopt a financing plan to implement the capital improvements recommended in this study.
4. Update the City's current system development charges (SDCs) to reflect the system improvement recommended in this plan.
5. Adopt a water rate increase plan to fund needed system improvements.
6. Review and update this plan within five to seven years to accommodate changed or new conditions.

**Table ES-4
City of Dundee
Water System Master Plan
Capital Improvement Program Summary**

Category	Project Description	Project Location	Capital Improvement Schedule and Project Cost Summary by Fiscal Year																				Estimated Project Cost		
			2003/2004	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023		2023/2024	2023 +
Supply System and Groundwater Wells	Water Rights Extensions and Final Proof Surveys	All Zones	Water Rights Work \$ 10,000																						\$ 10,000
	WMCP Plan	All Zones		WMCP Plan \$ 20,000																					\$ 20,000
	Purchase Well Nos. 5 & 6 and Fruit Booster Pump Station	Lower Pressure Zone	Purchase Facilities																						\$ 175,000
	Exploratory Well Drilling	All Zones	Exploratory Well \$ 125,000			Exploratory Well \$ 125,000				Exploratory Well \$ 125,000															\$ 375,000
	Production Well Construction	All Zones		Production Well \$ 850,000			Production Well \$ 850,000				Production Well \$ 850,000				Production Well \$ 850,000					Production Well \$ 850,000					\$ 4,250,000
	Well Rehabilitation	All Zones	Well No. 10 Rehab \$25,000		Well No. 3 Rehab \$ 25,000																				\$ 50,000
	Sub-Total		\$ 160,000	\$ 870,000	\$ 25,000	\$ 125,000	\$ 850,000	\$ -	\$ -	\$ 125,000	\$ 850,000	\$ -	\$ -	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,705,000
Storage Facilities	1.75 MG Reservoir Construction	Intermediate / Lower Zone	Preliminary Eng. \$ 100,000	Reservoir Construction \$ 1,300,000	\$ 1,300,000																				\$ 2,700,000
	0.2 MG Reservoir	Upper Pressure zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000		Maintenance \$ 50,000																	\$ 61,000
	0.05 MG Reservoir	Intermediate Pressure Zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000		Maintenance \$ 35,000																	\$ 46,000
	0.4 MG Reservoir	Lower Pressure Zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000	Maintenance \$ 20,000																		\$ 28,000
	0.085 MG Reservoir	Lower Pressure Zone						Demolition \$ 50,000																	\$ 50,000
	Sub-Total		\$ 109,000	\$ 1,300,000	\$ 1,300,000	\$ 24,000	\$ 20,000	\$ 85,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,838,000
Pumping Facilities	Clearwell Booster Pump Station Improvements	Upper Zone				Clearwell Pump Station \$ 45,000																			\$ 45,000
	Fruit Booster Pump Station Replacement	Lower Zone			Fruit Pump Station \$ 300,000																				\$ 300,000
	Sub-Total		\$ -	\$ -	\$ 300,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,000
Distribution System	Distribution System Improvements	Lower Pressure Zone	Upland 12-inch \$ 103,700	Not \$ 43,920	Dogwood 12-inch \$ 43,920		STH 12-inch \$ 317,200		NE 11TH 12-inch \$ 196,420	SE 11TH 12-inch \$ 97,600	Leont 8-inch \$ 197,800	9TH 8-inch \$ 128,800			SE 11th 8-inch \$ 48,760	Edwards 12-inch \$ 261,080								\$ 1,225,200	
		Intermediate Pressure Zone		Upland 16-inch \$ 163,000						Alder 8-inch \$ 59,100														\$ 222,100	
		Upper Pressure Zone				Worden 12-inch \$ 292,800	Viewmont 8-inch \$ 122,360					Red Hills Loop 8-inch \$ 82,800	Walnut 8-inch \$ 66,240											\$ 441,200	
	Pressure Reducing Valve	Intermediate / Lower Pressure Zone		Upland 12-inch \$ 94,000																				\$ 94,000	
	Waterline Replacement Program	All Zones	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 81,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	\$ 1,175,000
	Sub-Total		\$ 188,700	\$ 248,000	\$ 222,920	\$ 377,800	\$ 402,200	\$ 207,360	\$ 281,420	\$ 144,100	\$ 182,600	\$ 282,800	\$ 296,600	\$ 151,240	\$ 85,000	\$ 113,760	\$ 346,080	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 4,021,400
Other	Telemetry System	All Zones	Telemetry System Evaluation \$ 20,000	Telemetry System Improvements \$ 150,000																					\$ 170,000
			Sub-Total	\$ 20,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total		\$ 477,700	\$ 2,568,000	\$ 1,847,920	\$ 526,800	\$ 1,317,200	\$ 292,360	\$ 331,420	\$ 269,100	\$ 1,032,600	\$ 282,800	\$ 296,600	\$ 151,240	\$ 935,000	\$ 133,760	\$ 346,080	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 12,149,230
			\$ 3,045,700 2 Year Total \$ 1,522,850 Annual Ave.		\$ 6,737,620 5 Year Total \$ 1,347,524 Annual Ave.		\$ 7,361,400 7 Year Total \$ 1,051,629 Annual Ave.		\$ 8,946,600 10 Year Total \$ 894,660 Annual Ave.		\$ 10,809,280 15 Year Total \$ 720,619 Annual Ave.		\$ 12,169,230 21 Year Total \$ 579,490 Annual Ave.												

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SECTION 1

SECTION 1 INTRODUCTION

Authorization

In February 2003, the firm of Murray, Smith & Associates, Inc. was authorized by the City of Dundee to prepare this Water System Master Plan.

Purpose

The purpose of this study is to perform a comprehensive analysis of the City of Dundee's water supply and distribution system, to identify system deficiencies, to determine future water distribution system supply requirements, and to recommend water system facility improvements that correct existing deficiencies and that provide for future system expansion. Since the completion of the City's last water system master plan, the City has experienced accelerating growth within the community and increasingly stringent standards related to water system management. This study will provide the City the guidance needed for the sound stewardship of the water system over the next 20 years and beyond.

Compliance

This plan complies with water system master planning requirements established under Oregon Administrative Rules (OAR) for Public Water Systems, Chapter 333, Division 61 and applicable elements of Division 86.

Scope

The scope of work for this study includes the following work tasks:

- ***Data Gathering*** -- Compilation and review of existing maps, drawings, data, plans, studies and reports related to all aspects of water system operations and functions.
- ***Develop Inventory of Existing Facilities*** -- Preparation of an inventory of existing water system facilities including groundwater well supply, transmission and distribution piping, storage reservoirs, pumping stations, and telemetry and control systems.
- ***Develop Water Demand Estimates*** -- Review of information related to service area, land use, population distribution, and historical water demands. Development of population projections and water demand estimates for existing and undeveloped areas within the City's water service area.

- *Establish System Analysis and Planning Criteria* -- Development of system performance criteria for distribution and transmission systems and storage, pumping and supply source facilities. Development of analysis and planning criteria for pressure zone service pressure limits, for emergency fire suppression water needs, and for water quality goals as well as for other system performance parameters.
- *Develop and Calibrate Water System Hydraulic Model* -- Preparation of a computerized water distribution system hydraulic network analysis model using Haestad Methods' WaterCAD hydraulic modeling software.
- *Perform Water System Analysis* -- Perform a detailed analysis of the City's source, supply, transmission and distribution systems, analyze storage and pumping capacity needs, and evaluate pressure zone limits.
- *Evaluate Unaccounted-for Water* -- Evaluate unaccounted-for water, based upon historical City water sales, production and purchase records.
- *Develop Recommended System Improvements* -- Develop recommended water system facilities improvements which correct existing deficiencies and that provide for future system expansion.
- *Prepare Capital Improvement Plan* -- Develop estimated project costs for recommended improvements, recommended project sequencing and the development of a Capital Improvement Program.
- *Prepare Water System Master Plan Document and System Plan Map* -- Prepare a water system master plan that documents and describes the planning and analysis work efforts, including mapping and graphics identifying all existing and proposed water system facilities.

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SALEM, OREGON**

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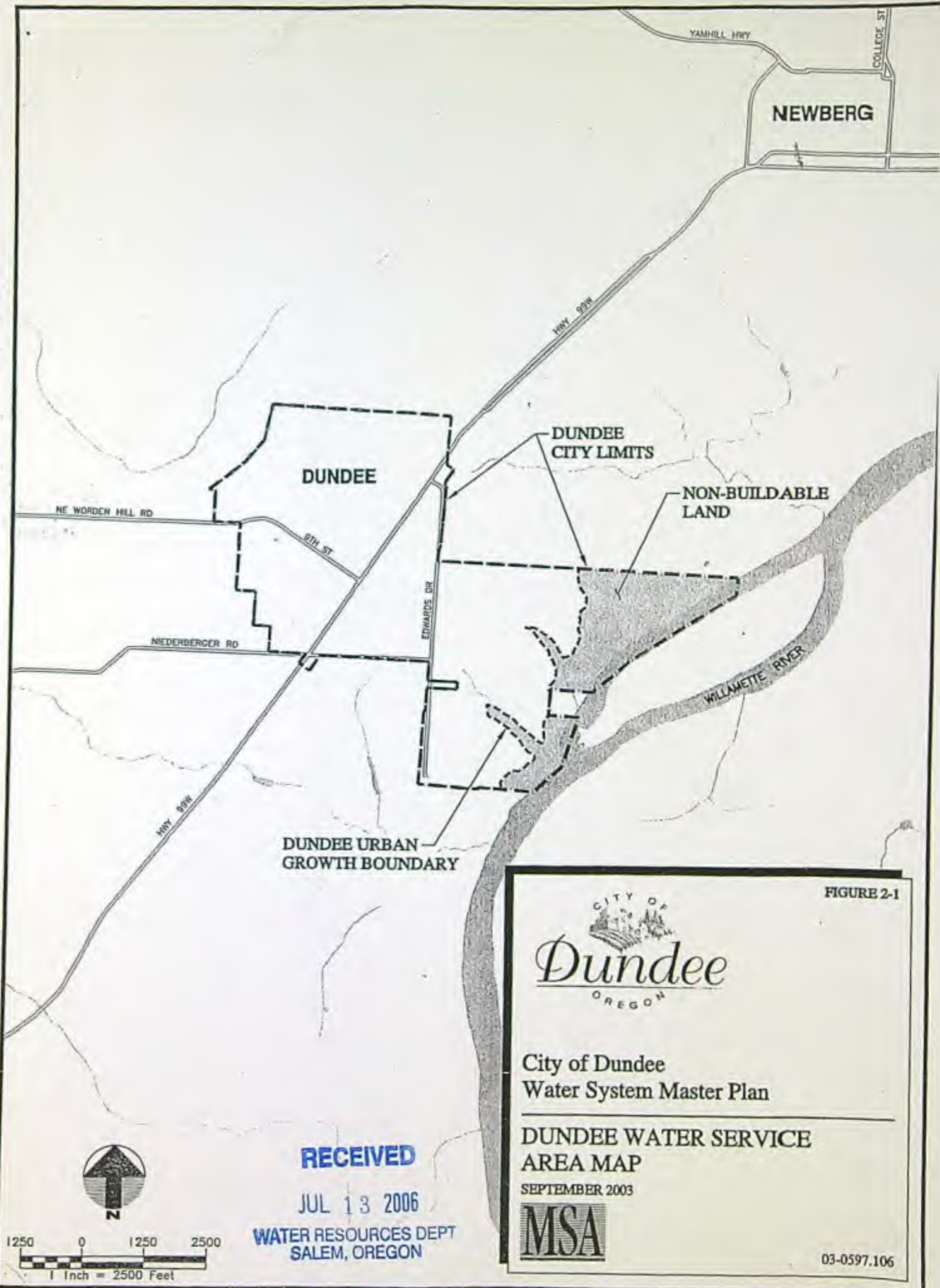


FIGURE 2-1



City of Dundee
Water System Master Plan

DUNDEE WATER SERVICE
AREA MAP

SEPTEMBER 2003



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SALEM, OREGON

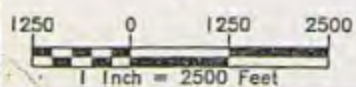


Table 2-1
Groundwater Well Pump, Depth and Production Summary

Well No.	Name	Horse-power (hp)	Total Well Depth (feet)	Approximate Existing Production Capacity (gpm)	
1	Clearwell Site	15	103	53	C+5 0.118
2	Clearwell Site	10	200	54	0.12
3	Deep Well Site	7.5	471	35	0.078
5	Pruitt Well Site	7.5	160	135	0.3
6	Pruitt Well Site	7.5	160	135	0.3
7	Spring Well Site	10	215	80	0.178
8	Spring Well Site	10	304	130	0.29
9	First Street Well Site	20	385	145	0.32
10	Alder Street Well Site	10	482	50	0.11
Total Supply Source Production Capacity¹				790 (1.14 mgd)	Total = 817 gpm or 1.02 cfs
Total Firm Supply Source Production Capacity²				645 (0.93 mgd)	

1. Total supply source production capacity is the sum of the production capacities of all operational well pumps.

2. Total firm supply source production capacity is the total pumping capacity of all operational well pumps with the largest well out of service. The total firm capacity shown is the sum of all operational wells with Well No. 9 out of service.

brief description of each well is presented below. Also presented is a brief discussion of the City's surface water sources and associated water rights that are currently not being used.

Well Nos. 1, 2, 7 and 8

The City operates four wells and a pumping facility on a parcel of land located approximately 1.25 miles west of the City limits. These are Well Nos. 1, 2, 7 and 8, and are also collectively referred to as the Spring Wells. Each well pumps water to a 6,000 gallon clearwell where it is chlorinated and then pumped through a 6-inch diameter pipe to the 0.2 million gallons (MG) Reservoir. A detailed description of the Clearwell Booster Pump Station is presented later in this section. The wells at this site have a combined production capacity of approximately 320 gallons per minute (gpm) and are described below:

- Well No. 1 is capable of producing approximately 53 gpm of water. The well was constructed in 1971, has an 8-inch diameter casing, a depth of approximately 103 feet, and a wellhead elevation of approximately 440 feet.
- Well No. 2 is capable of producing approximately 54 gpm of water. The well was constructed in 1973, has an 8-inch diameter casing, a depth of approximately 200 feet, and a wellhead elevation of approximately 429 feet.

- Well No. 7 is capable of producing approximately 80 gpm of water. The well was constructed in 1988, has an 8-inch diameter casing, a depth of approximately 215 feet, and a wellhead elevation of approximately 451 feet.
- Well No. 8 is capable of producing approximately 130 gpm of water. The well was constructed in 1991, has an 8-inch diameter casing, a depth of approximately 304 feet, and a wellhead elevation of approximately 460 feet.

Well No. 3

Well No. 3, also referred to as the deep well, is located adjacent to the 0.4 MG Reservoir, near the intersection of SW Upland Drive and SW Red Hills Loop. This well has a current production capacity of approximately 35 gpm, a 16-inch diameter casing, a depth of approximately 471 feet, and a wellhead elevation of approximately 400 feet. Water from Well No. 3 is chlorinated at the wellhead and pumped directly into the 0.4 MG Reservoir. The well was originally constructed in 1956 to a depth of approximately 385 feet and was increased to a depth of approximately 471 feet in 1960. This well had a production capacity of approximately 65 gpm in 1980, approximately 41 gpm in 1991, and a recorded production capacity of approximately 35 gpm in 2002. Due to the steadily declining water production rates, static water level data is being gathered on Well No. 3 to better assess the well's long term production potential.

Well Nos. 5 and 6

Well Nos. 5 and 6, also referred to as the Pruitt Wells, are located on private property near the intersection of SW 9th Street and SW Alder Street and are not owned by the City. The City has an agreement with the current property and well owners to purchase water from these wells during high water demand periods. Well No. 5 is capable of producing approximately 135 gpm of water. The well was constructed in 1977, has a 6-inch diameter casing, a depth of approximately 160 feet, and a wellhead elevation of approximately 220 feet. Well No. 6 is capable of producing approximately 135 gpm of water. The well was also constructed in 1977, has a 6-inch diameter casing, a depth of approximately 140 feet, and a wellhead elevation of approximately 220 feet. While other wells appear to have declining production yields, Well Nos. 5 and 6 appear to be producing consistent yields over time. Well No. 5 experiencing is air entrainment problems.

Well No. 9

Well No. 9, also referred to as the First Street Well, is located in the northwest section of the City near the intersection of SW First Street and Highway 99W. This well became operational in 2002 and has an 8-inch diameter casing, a depth of approximately 385 feet, and a wellhead elevation of approximately 220 feet. Water from Well No. 9 is chlorinated at the site and pumped directly into the lower pressure zone at a rate of approximately 145 gpm.

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Well No. 10

Well No. 10, also referred to as the Alder Street Well, is located near the southern edge of the City limit boundary near the intersection of SW Alder Street and SW Niederberger Road. This well became operational in 1991 and has an 8-inch diameter casing, a depth of approximately 482 feet, and a wellhead elevation of approximately 180 feet. For approximately nine years following well construction it produced approximately 100 gpm. Recently static water levels in the vicinity of Well No. 10 appear to be declining along with the well's production capacity. The well discharge is currently throttled such that the well currently produces approximately 50 gpm. Water from Well No. 10 is chlorinated at the site and pumped into the lower pressure zone.

In-Active Surface Water Spring Sources

Prior to the development of the City's current groundwater supply wells the City relied on surface water springs located west of the City. According to discussions with City staff these spring sources consist of small cast-in-place concrete catchment tubs that have not been used for decades. A summary of water rights associated with these springs is presented as part of Appendix D.

Local Hydrogeologic Setting

The City of Dundee is located west of the Willamette River on a topographic bench at the edge of the Willamette Valley as shown on Figure 2-3. The elevation of the City is approximately 200 feet above msl. The local geology of the hills west of Dundee is dominated by a weathered basalt formation that has inspired the naming of these hills as the Red Hills of Dundee. These hills rise above the town to the west and northwest to an elevation of approximately 1,000 feet above msl. These highland areas supply the majority of recharge to streams and groundwater in the area from both rain and occasional snow melt. Rainfall in the area is typical of the Willamette basin and averages over 40 inches per year. Presented below is a description of the local hydrogeologic setting as it relates to the City's groundwater supply including a discussion of the physical setting, regional geology, geologic units and hydrogeologic conditions of the study area.

Local Geology

The general geologic units in the Dundee area are presented in Figure 2-3. These units are discussed in detail from youngest to oldest below.

Alluvium

This unit consists of stream channel sands, gravels, and silts deposited by the Willamette River and is annotated as "Qal" on Figure 2-3. The deposits can vary in thickness from less than 10 feet to almost 100 feet based on local water well logs. Under certain conditions this

unit may contain productive zones similar to those in the City of Newberg's well field near the Willamette River.

Lacustrine and Fluvial Sediment

This unit, annotated as "Qs" on Figure 2-3, consists of unconsolidated to semi-consolidated clay silt sand and some gravel. The upper 30 to 40 feet of sediments, referred to locally as Willamette Silts, represent backwater sediments deposited by the Missoula Lake floods that scoured the lower Willamette Valley. The sediments present beneath the Willamette Silts may be lake sediments deposited when the Boring Lava dammed the Willamette River approximately 2.5 million years ago. This unit can be several hundred feet thick in places and typically consists of fine-grained material. Groundwater yields in the fine-grained sediments are typically less than 50 gpm.

Wanapum Basalt

This unit, annotated as "Tcw" on Figure 2-3, consists of a single flow of the Columbia River Basalt Group (CRBG) that is approximately 15 million years old. In the Red Hills of Dundee, the Wanapum Basalt is thin and highly weathered. Under these local conditions, this unit is not typically suitable for groundwater development.

Grande Ronde Basalt

The Grande Ronde Basalt unit, annotated as "Tcg" on Figure 2-3, consists of a series of basalt flows that form the lower portion of the CRBG. The individual basalt flows of the Grande Ronde Basalt formation are approximately 15 million years old and can vary greatly in thickness from several feet to greater than 100 feet. The thickness of the Grande Ronde Basalt in this area may exceed 900 feet based on a review of water well logs in the area. For example, the thickness of the Grande Ronde Basalt in one local well is 952 feet. The sedimentary formation underlying the CRBG has been encountered as shallow as 500 to 600 feet below ground surface in places, indicating that the overall thickness of this unit is variable.

Groundwater in the basalt is predominantly derived from interflow zones, which represent the contact between individual basalt flows. These interflow zones are typically rubbly and porous, and thus can transmit water easily. Groundwater also is produced from fractured zones in the more massive interior flows if sufficient structural deformation and/or fracturing has occurred. Locally, in the Red Hills of Dundee, a very thick layer of Wanapum basalt, which can be several hundred feet in places, caps the Grande Ronde basalt formation. The clay cap of the Wanapum basalt represents weathered basalt that is important from a hydrogeologic perspective because precipitation does not easily percolate through the clays, thus limiting recharge to the underlying Grande Ronde basalt formation.

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Marine Sediments

This unit, annotated as "Tsd" on Figure 2-3, consists of marine sediments that underlie the Grande Ronde Basalts. Groundwater present in the marine sediments commonly is saline and is typically not suitable for drinking water purposes

Geologic Structures

Geologic structures have an important influence on groundwater flow in the basalts. Faults and folds influence groundwater flow by promoting or impeding both lateral and vertical groundwater flow. The hills west and northwest of Dundee are structurally controlled by northeast-trending normal faults. Existing city wells and specific capacities and yields are illustrated on Figure 2-4. A geologic cross section perpendicular to the structural geologic composition in the area is shown in Figure 2-5 and the location of the cross section is shown in Figures 2-3 and 2-4. The vertical scale of the cross sections is exaggerated to better display subsurface conditions. Faulting has down-dropped the basalts to the southeast toward the Willamette River. Additional faults are most likely present in the hills, but as yet their locations have not been confirmed. Most importantly, the faults may create blocks of basalt that compartmentalize water-bearing zones, and can limit recharge to a particular block. Thus pumping can result in sustained water level declines because of the limited extent of the aquifer, particularly if recharge is restricted due to a clay cap as is the case in the Dundee area.

Hydrogeology

The principal aquifer in the area is in the Grande Ronde Basalt unit of the CRBG and the majority of groundwater flow within the basalt is concentrated in interflow zones. The basalts can be highly productive if permeable interflows are encountered and/or if secondary fracturing has enhanced the basalt permeability. Well yields in the basalts tend to increase with the depth drilled as more interflows are penetrated. Wells yielding several hundred gallons per minute are not uncommon in basalts where permeable interflow zones within the basalt stratigraphy are intercepted by the wells.

Groundwater also is found in certain sediments and alluvium units along the Willamette River. The potential yield of the sediments can vary greatly depending on the amount of coarse-grained material encountered and also depends on the amount of cementation of the formation and its clay content.

The primary source of recharge to the local aquifers is by rainfall and, after cooler winters, by snowmelt. In the case of the Red Hills of Dundee, a clay cap inhibits direct recharge to the basalt aquifer by precipitation. The direction of groundwater flow in the basalt is typically in a southeasterly from the highlands toward the river. The depth to groundwater in the basalts in the upland portion of the study area is very near the ground surface; however, most of the wells completed in the upland areas are sealed to a depth of over 100 feet below

ground surface, and thus the static water levels measured in these wells are representative of the confined and semi-confined aquifers hosted in the basalts. A geologic fault located along the base of the Red Hills, as shown in Figure 2-5, may act as a hydrogeologic barrier between the upland and valley hydrogeologic regimes.

In general, the water supply wells completed in basalts in the Dundee area typically have yields of less than 100 gallons per minute. Most of these lower capacity wells do not penetrate the entire basalt thickness, and thus the limited yields of these wells are in part due to less than full penetration of the existing water-producing zones. Other factors that may influence the relatively low yield of existing wells include faulting and compartmentalization of the basalts, and the apparent lower permeability of the shallower interflow zones in the basalts.

Water Rights Summary

Water rights associated with each of the production wells is summarized in Table D-1 in Appendix D. Also presented in this table are all water rights held by the City, including those for abandoned and non-operational wells as well as a surface water right on the Willamette River. Included in this table is Well No. 4, also referred to as the River Well, which is no longer operational. This well was originally drilled in 1972 near the Willamette River flood plain to draw water from the Willamette alluvium geological formation. During the flooding in 1996, the wellhead and pump were completely submerged and damaged. This, in addition to steadily declining water production rates, prompted the City to abandon this well. A discussion of water rights, their status and the need for action and recommendations is presented in Sections 5 and 6.

Pressure Zones

The City of Dundee's water service area is divided into four pressure zones. Pressure zones are usually defined by ground topography and designated by overflow elevations of water storage facilities or outlet hydraulic grades of pressure reducing facilities serving the zone. A description of each of the City's pressure zones is presented below and includes a description of the service area, storage facilities, pumping facilities and groundwater wells in each of the zones.

Lower Pressure Zone

The Lower Pressure Zone is the largest pressure zone in the City of Dundee and serves all services below an approximate ground elevation of 300 feet. The zone operates at an approximate hydraulic grade line (HGL) of 430 feet. The zone encompasses approximately 376 acres and is composed of residential, commercial and industrial land uses. Water service to the Lower Pressure Zone is provided by the 0.4 MG Reservoir and Well Nos. 9 and 10. In periods of high demand additional supply is provided by Well Nos. 5 and 6. Under normal

operating conditions Well No. 3 supplies this zone through direct pumping into the 0.4 MG Reservoir, which has an overflow elevation of approximately 429.9 feet.

Intermediate Pressure Zone

The Intermediate Pressure Zone is the second largest pressure zone in the City and serves all customers between approximate ground elevations of 300 feet and 500 feet. The zone operates at an HGL of approximately 583 feet, encompasses approximately 87 acres, and is composed of residential land uses. Water is supplied by gravity to this zone by the 0.05 MG Reservoir, which has an overflow elevation of approximately 582.5 feet. This reservoir receives water through 8-inch diameter piping from the 0.2 MG Reservoir. An altitude valve at the inlet of the 0.05 MG Reservoir maintains the water level in the reservoir between approximately 575 feet and 582 feet.

Intermediate-PRV Pressure Zone

Approximately ten acres of developed residential area near the intersection of SW Warden Hills Road and SW Red Hills Drive is supplied by the 0.2 MG Reservoir through a PRV set at an HGL of approximately 615 feet. This PRV is identified as the Red Hills PRV on Plate 1 in Appendix A. Although this area is served by the Upper Pressure Zone, ground elevations and service pressures are similar to those in the Intermediate Pressure Zone. Therefore, for analysis purposes, this zone is considered part of the Intermediate Pressure Zone. The PRV serves approximately 20 domestic services in this zone. Fire hydrants in this zone are served by the Upper Pressure Zone through an 8-inch diameter line, which runs parallel to the domestic service lines on SW Red Hills Drive. This zone is referred to as the Intermediate-PRV Pressure Zone and is identified as such on Plate 1 in Appendix A.

Upper Pressure Zone

The Upper Pressure Zone serves all customers above an approximate ground elevation of 500 feet. The zone encompasses approximately 23 acres and is composed of residential land uses. Supply to the Upper Pressure Zone is provided by the 0.2 MG Reservoir, which is filled with water pumped from the Spring Well site. This zone operates at an approximate hydraulic grade line of 688.7 feet.

Storage Reservoirs

The City of Dundee's water system contains three storage reservoirs, with a total combined storage capacity of approximately 0.65 MG. The City also owns and maintains a clearwell at the Spring Well site with a volume of approximately 6,000 gallons. Table 2-2 presents a summary of the City's existing storage reservoirs, including capacities, overflow elevations, and pressure zones served. Presented below is a brief discussion of each reservoir.

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**Table 2-2
Reservoir Summary**

Reservoir Name	General Location	Overflow Elevation (ft)
0.4 MG	SW Redhills Loop and SW Upland Drive	429.9
0.05 MG	SW Viewmont Drive	582.5
0.2 MG	West of SW Fairview Drive	688.7

0.4 MG Reservoir

The 0.4 MG Reservoir is located just south of the intersection of SW Red Hills Loop and SW Upland Drive at an approximate ground elevation of 390 feet and has an overflow elevation of approximately 429.9 feet. The reservoir is a partially buried cast in place concrete, circular reservoir with an approximate 61.5-foot diameter and a side wall height of approximately 18 feet. This reservoir is supplied water directly from Well No. 3, which is located adjacent to the reservoir. This reservoir is also supplied water from the 0.05 MG Reservoir through manually operated valves typically operated in periods of high demand. The reservoir is not controlled or monitored by telemetry or supervisory control and data acquisition (SCADA) facilities.

0.05 MG Reservoir

The 0.05 MG Reservoir is located at the northwest edge of the City limits off of SW Viewmont Drive. It has an overflow elevation of approximately 582.5 feet and a floor elevation of approximately 545 feet. The reservoir is an at-grade circular welded steel reservoir built in 1973 and has a diameter of approximately 17 feet and a side wall height of approximately 30 feet. The 0.05 MG Reservoir is supplied water from the 0.2 MG Reservoir and serves the Intermediate Pressure Zone. The reservoir is not cathodically protected and has no associated telemetry or SCADA controls. The reservoir is equipped with an overflow alarm.

0.2 MG Reservoir

The 0.2 MG Reservoir is located approximately one mile west of Dundee City limits off of SW Fairview Drive. It has an overflow elevation of approximately 688.7 feet and a floor elevation of approximately 660 feet. The reservoir is an at-grade circular, welded steel tank with a 33-foot diameter and a side wall height of approximately 32 feet. Water is pumped to the reservoir from the Spring Wells through a 6-inch diameter cast iron pipe. The 0.2 MG Reservoir serves the Upper Pressure Zone and the Intermediate-PRV Pressure Zone and

supplies the 0.05 MG Reservoir. The water level in the 0.2 MG Reservoir is monitored and recorded at the Clearwell Booster Pump Station. The reservoir is not cathodically protected.

The City also owns an abandoned reservoir referred to as the 0.085 MG Reservoir, which is a circular cast in place concrete reservoir located next to the 0.4 MG Reservoir. This reservoir was taken out of service due to poor condition and age. The City has no plans to reactivate this reservoir.

Spring Wells Clearwell

Well pumps at the Spring Wells (Well Nos. 1, 2, 7, and 8) pump water into a clearwell located underneath the Clearwell Booster Pump Station. The concrete clearwell is 20 feet long, 5 feet wide and 8 feet deep and has a capacity of approximately 6,000 gallons. Chlorine is injected into the clearwell from storage containers housed in a structure adjacent to the pump house.

Pump Stations

Clearwell Booster Pump Station

The Clearwell Booster Pump Station is located on the Spring Well site adjacent to Well Nos. 1, 2, 7, and 8, and houses two 25 hp vertical turbine pump units. Each pump has an approximate pumping capacity of 220 gpm. The vertical turbine pumps then pump the water approximately 1,500 feet south through a 6-inch diameter pipe to the 0.2 MG Reservoir. The site is equipped with a 90-kilowatt generator that can provide emergency power to this station in the event of power failure. This pump station has room within the structure and within the clearwell to install a third future booster pump.

Pruitt Booster Pump Station

The Pruitt Booster Pump Station is a privately owned facility that serves the City under an agreement between the City and the property owner. As previously discussed, Well Nos. 5 and 6 are located on private property and are not owned by the City. Submersible well pumps in both wells convey water through a 6-inch diameter header pipe to the Pruitt Booster Pump Station. The station houses a 7.5 hp pump in a wood frame structure adjacent to Well No. 6 that pumps water directly into the Lower Pressure Zone at a rate of approximately 250 gpm when both well pumps are operating. The City currently maintains and operates this station.

Distribution System

The City's water distribution system is composed of various pipe types in sizes up to 12 inches in diameter. The total length of piping in the service area is approximately 117,482 feet or approximately 22.3 miles. The pipe types include cast iron, ductile iron, galvanized

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iron, asbestos cement or transite, steel, copper, and polyvinyl chloride (PVC). The majority of the piping in the system is ductile iron, cast iron and steel. Table 2-3 presents a summary of pipe lengths and materials by diameter.

Table 2-3
Distribution System Pipe Summary

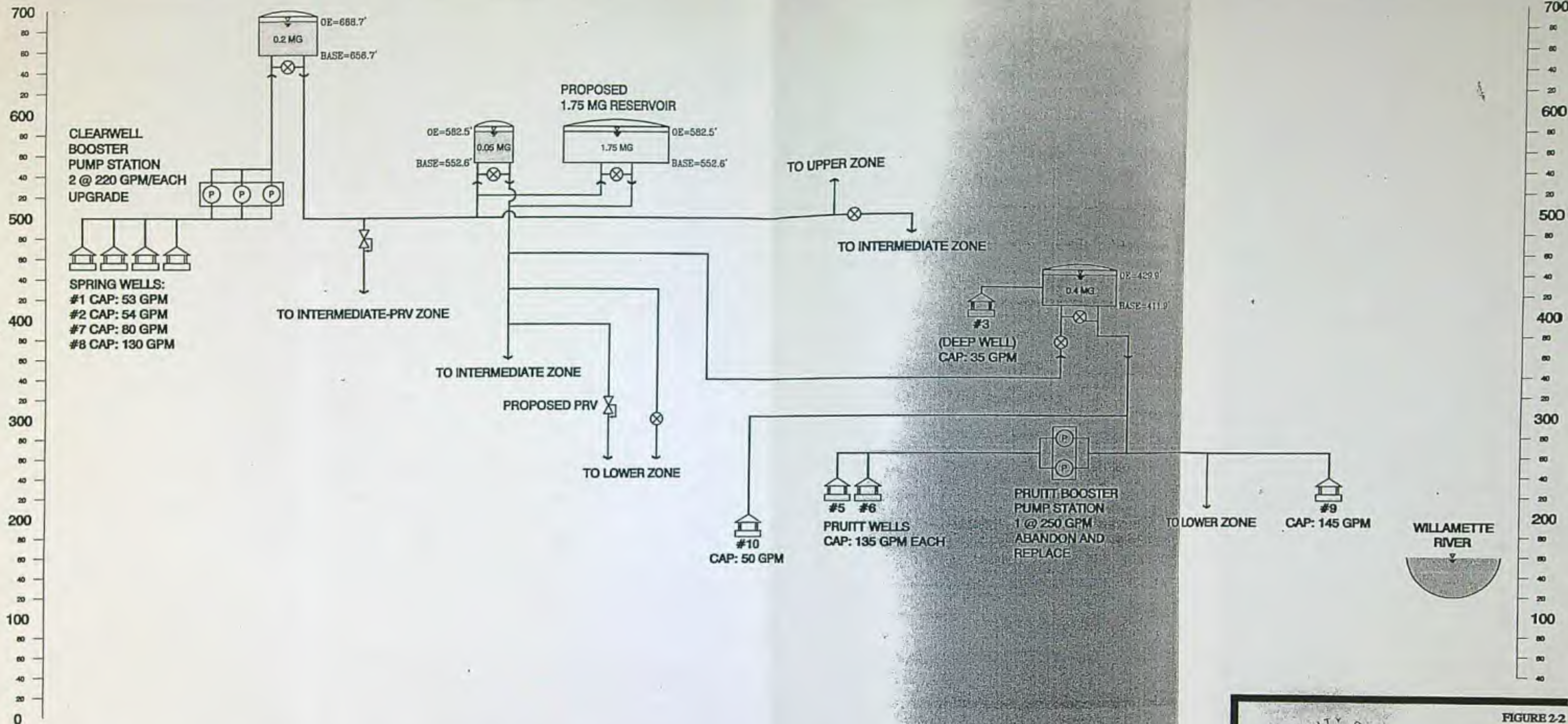
Diameter (inch)	Materials (linear feet)						Total Length (lf)
	Ductile Iron	Cast Iron	Steel	Asbestos Cement	Galvanized Iron	PVC	
3 or less					8,591	5,060	13,651
4	6,981		10,578	950	100		18,609
6	17,900	7,911	1,570	2,693			30,074
8	13,800	28,400	750	5,000			47,950
10		850	840				1,690
12	5,108			400			5,508
Total	43,789	37,161	13,738	9,043	8,691	5,060	117,482

Telemetry and Supervisory Control System

The telemetry and supervisory control system monitors reservoir water levels and pump operation status within the City's water distribution system. This system signals City staff over the local telephone system by pager when reservoirs or pumps operate outside of specified limits or levels. The telemetry system at the Clearwell Booster Pump Station monitors and stores water level data collected from the 0.2 MG Reservoir. Booster pumps at Well Nos. 1, 2, 7 and 8 are controlled by water level readings transmitted to the Clearwell Booster Pump Station from the 0.2 MG Reservoir. Pumps at Well Nos. 3, 5, 6 and 10 are operated by signal in response to water level changes detected by water level sensors in the 0.4 MG Reservoir. Well No. 9 has no telemetry and is operated manually. The City's existing telemetry system does not allow for the remote control of its water system facilities.

Summary

This section presents a summary of the City of Dundee's existing water system, including the supply system, storage and pumping facilities, and distribution system piping. Also included is a discussion of the local hydrogeology existing groundwater wells and pressure zones. Section 3 presents a summary of existing land uses within the water service area and develops estimates of the future population and water demand requirements.



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	EXISTING	PROPOSED
WATER MAIN		
RESERVOIR (CAPACITY INDICATED IN MILLION GALLONS, OVERFLOW ELEVATION IN FEET)		
GROUNDWATER WELL		
PRESSURE REDUCING VALVE		
CLOSED VALVE		
PUMP STATION		

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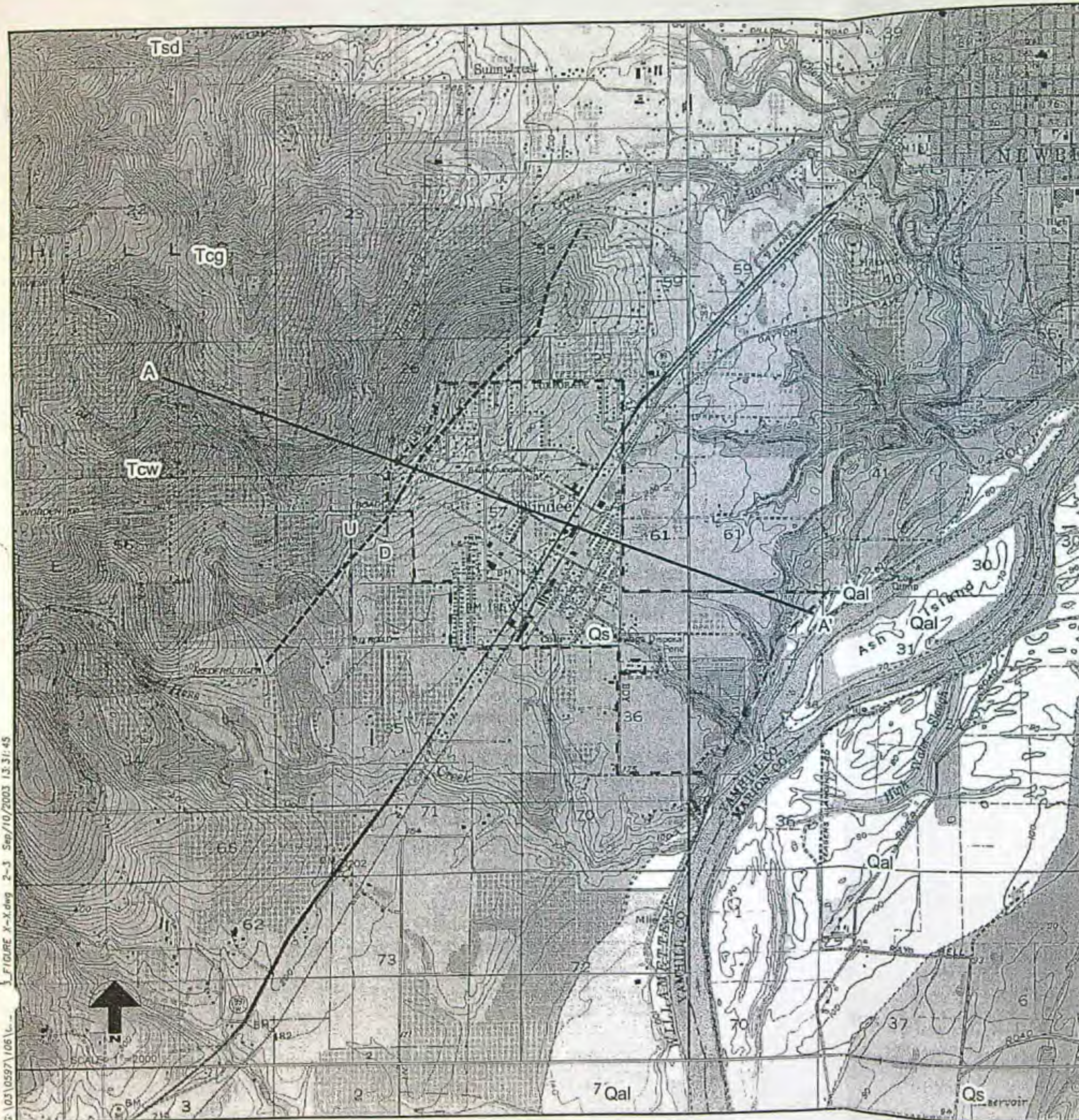
City of Dundee
Water System Master Plan

WATER DISTRIBUTION SYSTEM
HYDRAULIC PROFILE

SEPTEMBER 2003

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FIGURE 2-2



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Geology

- Qal - Alluvium- sand, gravel, and silt
- Qs - Lacustrine and fluvial, unconsolidated to semiconsolidated clay, silt, sand, and gravel
- Tcw - Wanapum Basalt - gray to dark-gray
- Tcg - Granda Ronde Basalt - dark-gray to black
- Tsd - Marine shale siltstone, sandstone, and conglomerate

A ————— A'
Geologic Cross Section

U (upside)

D (downside)

----- Urban Growth Boundary

FIGURE 2-3



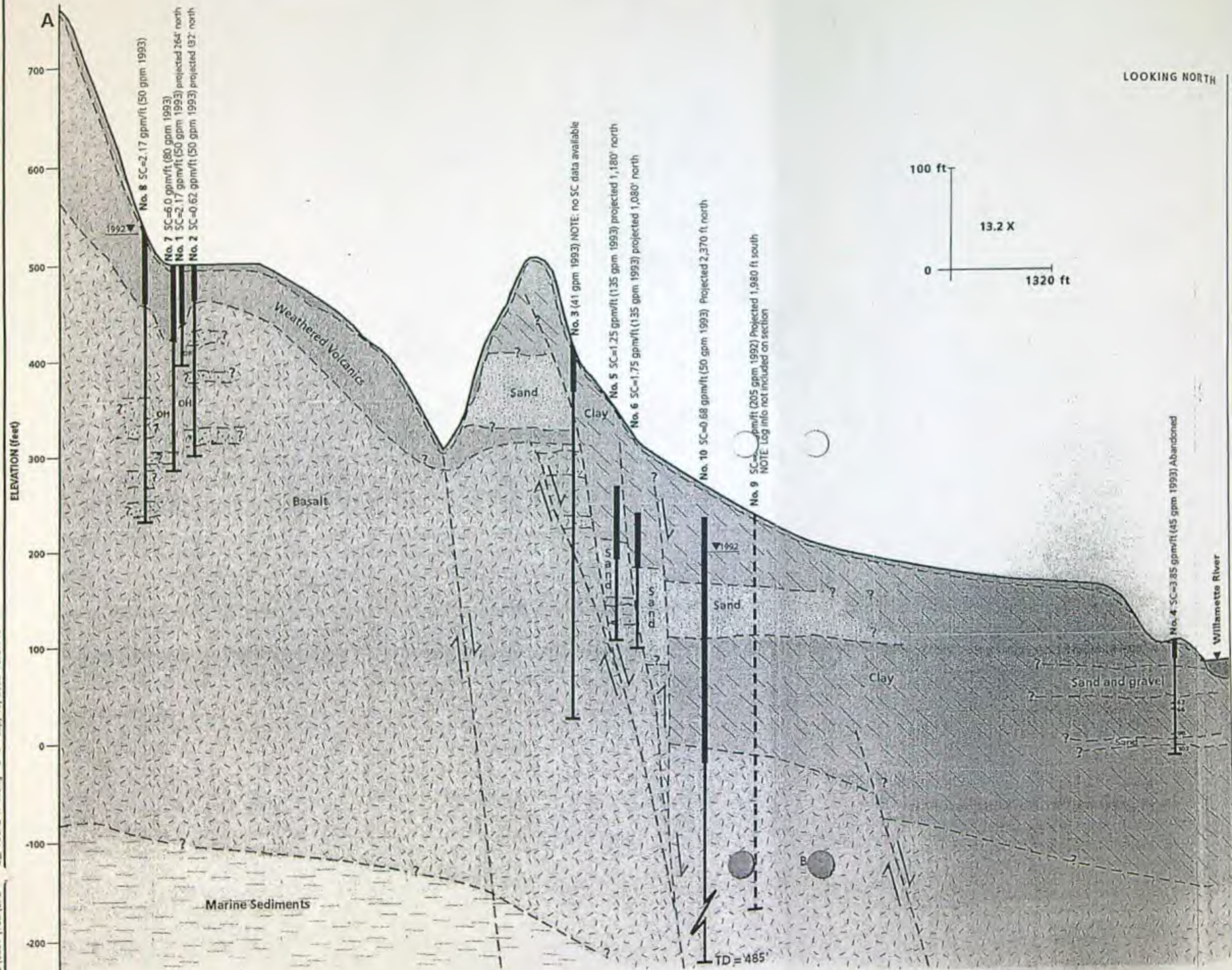
City of Dundee
Water System Master Plan

LOCAL GEOLOGICAL SETTING

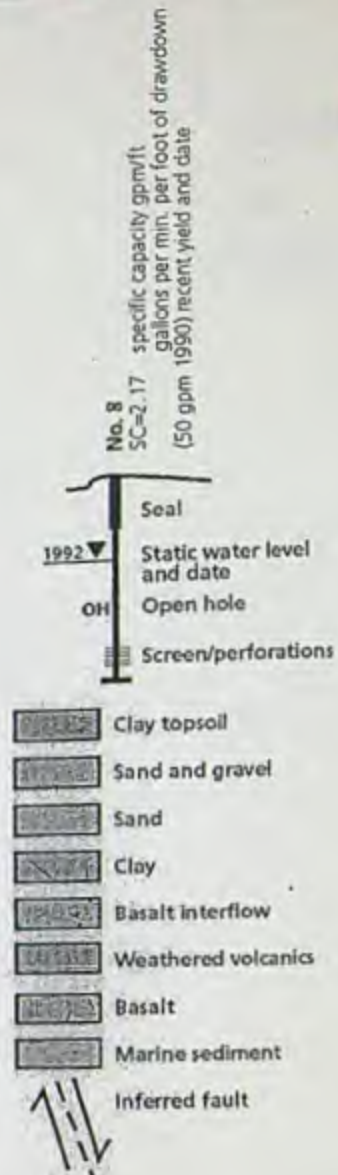
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SECTION 3

SECTION 3

LAND USE AND WATER REQUIREMENTS

General

This section develops population projections and estimated water demands for Dundee's water service area. Population and water demand forecasts are developed from regional and City planning data, current land use designations, historical water demand records and previous City water supply planning efforts. Also included in this section is a description of the current land use and zoning designations within the service area.

Service Area

The City of Dundee Urban Growth Boundary (UGB), as defined by the City's comprehensive plan, encompasses approximately 747 acres, while the City limits include approximately 900 acres. Approximately 153 acres of land inside the City limits is outside of the UGB and is non-developable flood plain land. The City water system currently provides service to the area within the UGB as well as to several connections outside of this boundary. The services outside the UGB have historically accounted for approximately six percent of the water demand and are anticipated to continue being served at this same level by the City throughout the planning period.

The future water service area identified for this plan includes the area enclosed within the established UGB. According to Dundee's Buildable Lands Inventory and Urbanization Project report, the agricultural area within the UGB is expected to be rezoned as residential prior to the saturation development of the UGB with a population density of five people per net available acre. This assumption was incorporated in demand estimates.

Planning Period

The planning period for this master plan is 20 years. The combination of the Buildable Lands Inventory and Urbanization Project report and probable infill densities estimate saturation development within the Urban Growth Boundary to occur in approximately the year 2025. Recent population projections developed from the 2000 U.S. Census indicate that saturation development will occur in 2023. With the estimate of saturation development expected to occur in approximately 20 years, all planning calculations will be based on saturation development conditions. Population projections and water demand estimates are presented in detail later in this section.

Land Use

Land use and zoning classifications for Dundee's water service area are established under the City's Comprehensive Plan. Table 3-1 summarizes land uses and zoning classifications for

the study area. Zoning classifications identified in Table 3-1 are in accordance with Comprehensive Plan Designations.

Table 3-1
Land Use Summary

Zone	Zone Description	Area within Dundee City Limits (gross acres)
R1	Single-Family Residential	261
R2	Single-Family Residential	81
R3	Medium Density Residential	41
C	Community Commercial	18
CBD	Central Business District Victorian Overlay	34
LI	Light Industrial	48
A	Agriculture	264
-	Non-developable Flood Plain Area	153
Total		900

Population Estimates

Existing Population

Historical population estimates were obtained through the analysis of data provided by the City of Dundee and the Center for Population Research and Census (CPRC) at Portland State University. The CPRC data represents estimates of Dundee's population inside the existing City limits as of July 1 each year. Population estimates for the beginning of each decade are based on census counts published by the U.S. Census Bureau, while annual estimates between the census counts are derived by analyzing supplemental data, including economic changes, building permits issued, and annexations. Table 3-2 presents a summary of these historical population estimates from 1970 through 2002. The average annual growth rate over this period was approximately 5.0 percent. **The most current published population figures for the year 2002 place the City's population at 2,770 residents, while the 2003 population of approximately 2,882 is a projection.**

The City of Dundee currently supplies water to approximately 2,882 people through approximately 1,000 residential service connections. Based on current City data, there are approximately 2.8 persons per equivalent dwelling unit (EDU). This results in approximately 1,030 existing dwelling units (DUs).

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Table 3-2
Historical and Current Population Summary

Year	Population
1970	588
1980	1,223
1990	1,663
2000	2,598
2001	2,670
2002	2,770
2003	2,882

Table 3-3 summarizes estimates of the existing population and DUs within each pressure zone.

Table 3-3
Existing Population and Equivalent Dwelling Units Summary

Pressure Zone	Area (acres)	Equivalent Dwelling Units	Population
Upper Zone	23.4	45	125
Intermediate Zone	86.5	200	560
Lower Zone	374.3	785	2,197
Total	484.2	1,030	2,882

Population Forecast

As part of on-going population forecasting efforts, population projections have been developed and summarized in Table 3-4. In 1998 the City had approximately 270 acres of net buildable land available within the UGB. Using the established planning densities of 4 lots per acre for R1 zoning, 5 lots per acre for R2 zoning, 9 lots per acre for R3 zoning, 5 lots per acre as an assumed value for the agricultural area, and an occupancy rate of 3 people per lot, the saturation development population is projected to be 6,350.

Table 3-4
Saturation Development Population Projection Summary

Zoning Designation	Net Buildable Land (acres)	Estimated Population
1998 Baseline Population	-	2,383
R-1	39.1	469
R-2	5.0	75
R-3	5.9	159
Residential/Agricultural	217.6	3,264
Saturation Development		6,350

Yamhill County's Transportation System Plan (TSP) projects a City population of approximately 9,127 in 2020 using a growth rate of 5.76%. The Oregon Office of Economic Analysis (OEA) has estimated Yamhill County's population to be 119,589 in the year 2020 with Dundee's population being only 1.7% of Yamhill County's population or approximately 3,994. Taking into consideration historical growth rates, TSP growth estimates, OEA growth estimates and the available buildable land within the existing UGB, the City has adopted a population of 5,750 in the year 2020. This correlates to a growth rate of 4.05% between the 2000 census population and the adopted 2020 population, which will be used for population projections. Table 3-5 presents a population forecast summary.

**Table 3-5
Population Forecast Summary**

Year	Population
2002	2,770
2003	2,882
2008	3,515
2013	4,286
2018	5,228
2020	5,750
2023 (UGB Saturation Development)	6,350

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For water system planning purposes, it is prudent to use the saturation development population forecasting methodology. This methodology provides for the most economical development of water infrastructure improvements by assuming full occupancy at saturation development conditions allowing for actual development to progress without incurring additional costs for facility duplication.

Water Demand Estimates

Water demand estimates were developed from a review of historical water consumption records and data provided by the City and regional population forecasts specifically generated to reflect the water service area.

Historical Water Use

The term "water demand" refers to all the water requirements of the system including domestic, commercial, municipal, institutional and industrial as well as unaccounted-for water. Demands are discussed in terms of gallons per unit of time such as gallons per day (gpd), million gallons per day (mgd) or gallons per minute (gpm). Demands are also related to per capita use as gallons per capita per day (gpcd). The City of Dundee maintains records

of historical monthly water usage by customers. Table 3-6 summarizes this data for the years 1999 through 2002.

Existing Water Demands

Based on historical water usage patterns and historical population, the water service area's average daily demand has been approximately 0.4 million gallons per day (mgd) with a per capita consumption of approximately 145 gallons per capita per day (gpcd). Recent maximum daily water demand usage, has been as high as approximately 0.95 mgd in 2000. This is equivalent to a maximum per capita usage of approximately 366 gpcd.

Table 3-6
Historical Water Use Summary

Year	Water Service Area Population	Water Demand (mgd)	
		Average Day Demand	Maximum Day Demand
1999	2,478	0.41	0.91
2000	2,598	0.43	0.95
2001	2,670	0.38	0.69
2002	2,770	0.38	0.81

Water Demand Projections

Future water demand estimates were developed by projecting historical flows using the same relative growth as the population. **As growth continues, both residential infill and zoning expansions are expected, resulting in an increased population density and an overall water demand.** For the purposes of this plan, estimated average daily water usage is assumed to remain constant at approximately 145 gpcd.

Dundee's water demand patterns have varied greatly over the past few years. Historical maximum day per capita usage has been as low as 260 gpcd and as high as 360 gpcd. As conservation plays an increasing role in water usage patterns, it is anticipated that Dundee's maximum daily per capita usage can ultimately be maintained at approximately 320 gpcd, even in drought years.

For the purposes of this study, future maximum day per capita usage is estimated at approximately 320 gpcd. Estimated average and maximum day water demands are developed by multiplying the estimated per capita usage by the anticipated population for that year. To provide an estimate of peak hourly usage, a factor of 1.5 was applied to the estimated maximum day water demands. This is consistent with water demand patterns of

similar communities in the region. Population projections and anticipated water demands, in five-year increments through saturation development, are summarized in Table 3-7.

**Table 3-7
Population Forecasts and
Estimated Water Demand Summary**

Year	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
2003	2,882	0.42	0.92	1.38 <i>2.139 cfs</i>
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (UGB Saturation Development)	6,350	0.92	2.03	3.05 <i>4.72 cfs</i>

Water demand projections were further developed for each pressure zone based on the area served, population projections, and water use data. Table 3-8 presents a summary of these demands at saturation development.

**Table 3-8
Pressure Zone Water Demand Summary
at Saturation Development**

Pressure Zone	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand	Peak Hour Demand
Upper Zone	195	0.03	0.06	0.09
Intermediate Zone	740	0.11	0.24	0.36
Lower Zone	5,415	0.78	1.73	2.60
All Zones	6,350	0.92	2.03	3.05

Summary

This section presents a discussion of existing and projected land uses within the water service area. Estimates of the current and future population are presented along with forecasts of water demands. Section 4 outlines the planning criteria that, in conjunction with the water demand estimates developed in Section 3, are used in the system analysis efforts.

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SECTION 4

SECTION 4

PLANNING AND ANALYSIS CRITERIA

General

This section develops and presents the planning and analysis criteria used for the water system analysis. Criteria and planning assumptions are presented for the City of Dundee's supply system and groundwater wells, distribution system piping, pressure zones, and storage and pumping facilities. Recommendations of water needs for emergency fire suppression are also presented. The water demand forecasts developed in Section 3 are used with these criteria in Section 5 for the analysis of Dundee's water system.

Groundwater Supply System

As described in Section 2, the City's water is supplied by nine operational groundwater wells. Water from Wells Nos. 1, 2, 3, 7, and 8 is pumped into storage reservoirs before distribution by gravity into the water system. Water from Well Nos. 5, 6, 9, and 10 is pumped directly into the Lower Pressure Zone. All of these wells must provide a firm supply source capacity equal to the maximum day demand as presented in Section 3 to the study area over the duration of the planning period. Firm supply source capacity is defined as the total production capacity of all operational wells with the largest capacity well out of service.

Distribution System

The water distribution system should be capable of operating within certain system performance limits, or guidelines, under several varying demand and operational conditions. The recommendations of this plan are based on the following performance guidelines, which have been developed through a review of State requirements, American Water Works Association (AWWA) acceptable practice guidelines, operational practices of similar water providers, and discussions with City water system operations staff. The recommendations are as follows:

1. The distribution system should be capable of supplying the peak hourly demand while maintaining minimum service pressures of not less than approximately 85 to 90 percent of normal system pressures. Reservoirs are assumed to be approximately two-thirds full during peak hourly demand conditions.
2. The distribution system should be capable of providing the recommended fire flow to a given location while, at the same time, supplying the maximum daily demand and maintaining a minimum residual service pressure at any meter in the system of 20 pounds per square inch (psi). This is the minimum water system pressure required by the Oregon State Department of Human Services Drinking Water Program. Reservoirs are assumed to be approximately two-thirds full during fire flow events.

Proposed or new water mains should be at least 8-inches in diameter in order to supply minimum fire flows. In special cases, 6-inch or 4-inch diameter mains are acceptable if no fire hydrant connection is required, there are limited services on the main, the main is dead-ended, and looping or future extension of the main is not anticipated.

Service Zone Pressures

As discussed in Section 2, the City is divided into four pressure zones. For planning and analysis purposes, and for the purposes of completing the distribution system hydraulic analysis, it is assumed that the hydraulic grade lines of the Upper, Intermediate-PRV, Intermediate, and Lower Pressure Zones are approximately 688.7 feet, 615 feet, 582.5 feet, and 429.9 feet respectively. These hydraulic grade lines are based on the reservoir overflow level or the PRV outlet HGL setting serving each zone. A detailed discussion regarding existing and future City water supply source options is presented with the summary of the system analysis results in Section 5.

As discussed in Section 2, water distribution systems are typically separated into pressure zones or service levels to provide service pressures within an acceptable range to all customers. As previously discussed, the existing water service area distribution system is divided into four service levels, or pressure zones. Pressure zones are usually defined by ground topography and designated by overflow elevations of water storage facilities or outlet settings of pressure reducing facilities serving the zone. Typically, water from a reservoir will serve customers by gravity within a specified range of ground elevations so as to maintain acceptable minimum and maximum water pressures at individual service connections. When it is not feasible or practical to have a separate reservoir serving each pressure zone, pumping facilities or pressure reducing facilities are used to serve customers in different pressure zones from a single reservoir.

Generally, 100 psi is considered the desirable upper pressure limit and 45 psi the lower limit. Pressures in areas of the Lower Pressure Zone have historically been as high as 115 psi, and it has been the practice of the City that services in this zone be installed with pressure reducing assemblies at the meter. As such, for the purposes of this study the maximum pressure limit for the Lower Pressure Zone will be 115 psi. Whenever feasible, it is desirable to achieve the 45 psi lower limit at the point of the highest fixture within a given building being served. Conformance to this pressure range may not always be possible or practical due to topographical relief, existing system configurations and economic considerations. Table 4-1 summarizes the service pressure criteria used in the analysis of the water system

Storage Volume

Water storage facilities are typically provided for three purposes: operational (or "equalization") storage, fire storage and emergency storage. Recommended storage in each zone is the sum of the operational, fire and emergency storage volume components. A brief discussion of each storage volume component is provided below.

Table 4-1
Recommended Service Pressure Criteria

Condition	Pressure (psi)
Minimum Service Pressure Under Fire Flow Conditions	20
Minimum Normal Service Pressure	45
Maximum Service Pressure	115

Operational Storage

Operational storage is required to meet water system demands in excess of delivery capacity from the supply source to system reservoirs. Operational storage volume should be sufficient to meet normal system demands in excess of the maximum daily demand and is generally considered as the difference between peak hour demand and maximum day demand (on a 24-hour duration basis). For each pressure zone, operational storage volume in the amount of 25 percent of maximum daily demand is considered appropriate.

Fire Storage

Fire storage should be provided to meet the single most severe fire flow demand within each zone. The fire storage volume is determined by multiplying the recommended fire flow rate by the expected duration of that flow. Specific fire flow and duration recommendations are discussed later in this section.

Emergency Storage

Emergency storage is often provided to supply water from storage during emergencies such as pipeline failures, equipment failures, power outages or natural disasters. The amount of emergency storage provided can be highly variable depending upon an assessment of risk and the desired degree of system reliability. Provisions for emergency storage in other systems vary from none to a volume that would supply a maximum day's flow or higher. A reasonable volume for emergency storage for the water service area is approximately 25 percent of maximum daily demand. This amount of storage volume for emergency purposes is consistent with accepted water industry practices and guidelines.

Booster Station Pumping Capacity

The City's water system is supplied entirely by groundwater wells, six of which are served by two booster pump stations. Firm booster station pumping capacity is defined as a station's pumping capacity with the largest pump out of service. The firm pumping capacity

at each pump station should equal or exceed the total supply production capacity of the well(s) being served by that station.

Fire Flow Recommendations

While the water distribution system provides water for domestic uses, it is also expected to provide water for fire suppression. The amount of water recommended for fire suppression purposes is typically associated with the local building type or land use of a specific location within the distribution system. Fire flow recommendations are typically much greater in magnitude than the normal maximum day demand present in any local area. Adequate hydraulic capacity must be provided for these large occasional fire flow demands.

A summary of fire flow recommendations by land use designation is presented in Table 4-2. The recommended fire flow presented in Table 4-2 were developed through a review of fire flow criteria adopted by similar communities, fire flow guidelines as developed by the AWWA, the Insurance Services Office (ISO) and discussions with the Dundee Fire Department.

Water stored for fire suppression is typically provided to meet the single most severe fire flow demand within each zone. The recommended fire storage volume is determined by multiplying the fire flow rate by the duration of that flow. Table 4-3 summarizes recommended fire flow durations.

Table 4-2
Summary of Land Use and
Recommended Fire Flows

City of Dundee Zoning Classification		Recommended Fire Flow (gpm)
R1	Single-Family Residential	1,000
R2	Single-Family Residential	1,000
R3	Medium Density Residential	1,000
R4.5	Residential (Low Density)	1,000
C	Community Commercial	3,000
CBD	Central Business District	3,000
LI	Light Industrial	4,000
A	Agriculture	3,000

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Table 4-3
Recommended Fire Flow Duration Summary

Recommended Fire Flow (gpm)	Duration (hours)
Up to 3,000	2
3,000 to 4,000	3
Greater than 4,000	4

Summary

The criteria developed in this section are used to assess the system's ability to provide adequate water service under existing conditions and to guide improvements needed to provide service for future water needs. Planning criteria for the transmission and supply system, distribution system, pressure zones, and storage and pumping facilities are presented. Section 5 describes the analysis of the water distribution system and presents recommended improvements based on the criteria presented in this section. Cost estimates and a recommended capital improvement plan are developed and presented in Section 6.

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SECTION 5

SECTION 5

WATER SYSTEM ANALYSIS

General

This section presents an analysis of Dundee's water distribution system based on the criteria developed in Section 4. The analysis includes a supply source analysis, an evaluation of the system's existing pressure zones and storage and pumping capacity requirements, and presents the findings of a computerized hydraulic network analysis of the water distribution system.

Through these evaluations and analysis, deficiencies are identified and improvement options developed. Section 6 presents a recommended capital improvement program that includes prioritized recommended improvements to correct deficiencies found through the analysis and which provides for system expansion.

Population forecasts and water use estimates presented in Section 3 are used to determine the need for certain improvements such as increased supply source and storage capacity, transmission system improvements and pumping capacity improvements. All improvements to storage and pumping facilities, and distribution and transmission piping, are based on estimated maximum day water demands at saturation development unless otherwise noted.

As discussed in Section 3, water demand estimates for the entire service area were developed in 5-year increments through the year 2023 and at saturation development. At saturation development, water demand estimates are identified for each pressure zone. An estimate of the existing water demand within each pressure zone was also identified. Development of existing and future water demands by pressure zone provides an indication of where growth is anticipated to occur and assists in identifying the extent and timing of necessary improvements.

Table 5-1 summarizes water demand estimates in 5-year increments for the water service area. Table 5-2 summarizes water demand estimates for each pressure zone for the year 2003 and at saturation development. These water demand estimates along with the planning criteria established in Section 4 are the basis for the analysis of the existing system and the development of recommended system improvements.

Supply Source Analysis

The City's existing groundwater wells have a firm pumping capacity of approximately 0.93 mgd. The water demand analysis in Section 3 projects an estimated water demand at saturation development of approximately 2.03 mgd. With a firm source production capacity of approximately 0.93 mgd the City's supply wells are adequate to meet the current maximum day demands of approximately 0.92 mgd. Additional supply capacity is needed immediately.

**Table 5-1
Population Forecasts and
Estimated Water Demand Summary**

Year	Population	Water Demand (mgd)		
		Average Day Demand	Maximum Day Demand (2.2 X ADD)	Peak Hour Demand (1.5 X MDD)
2003	2,882	0.42	0.92	1.38
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (Saturation Development)	6,351	0.92	2.03	3.05

**Table 5-2
Pressure Zone Water Demand Summary**

Pressure Zone	Existing (mgd)			Saturation Development (mgd)		
	Average Day Demand	Max Day Demand	Peak Hour Demand	Average Day Demand	Max Day Demand	Peak Hour Demand
Lower	0.32	0.70	1.05	0.78	1.73	2.60
Intermediate	0.08	0.18	0.27	0.11	0.24	0.36
Upper	0.02	0.04	0.06	0.03	0.06	0.09
Total	0.42	0.92	1.38	0.92	2.03	3.05

Groundwater Development Evaluation

Section 2 presented a description of Dundee's local hydrogeologic setting and discussed the production characteristics of the local aquifer. As previously discussed all of the City's wells are completed in basalt flows of the CRBG, except for Well No. 4, which is completed in sands and gravels near the Willamette River. Figure 2-4 illustrated the well yield and the specific capacity ranges of the wells. Specific capacity is a measure of the well's performance and takes into account the hydraulics of the well and the permeability of the aquifer. The figure indicates that the well yields are higher in the wells located adjacent to the base of the hills just west of town; yet the specific capacities of these wells are not significantly higher than the wells located further to the west.

The yield of certain City wells has been observed to have decreased over time. These decreased yields can be accounted for by several factors including:

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- The wells are becoming clogged by sediments or are becoming biologically fouled; both factors will reduce the well's yield.
- Water level declines in the aquifer due to pumping and/or limited recharge to blocks of basalt may reduce yields.
- A combination of both above factors.

Since long-term water level data and pumping records are not available, it is difficult at best to ascertain why the wells are losing capacity. The State of Oregon did collect water level data for Well No. 3 from the early 1960s through about 1988. The static water level in the well remained fairly constant until the early 1980s. After the early 1980s a decline in the static water level was noted, which could suggest that the effects of increased pumping of the aquifer in the vicinity of Well No. 3. If production capacity from the basalt aquifer exceeds recharge, then the drop in the water levels will occur. Declining water levels will increase the pumping lifts, possibly reducing well yields for a given pump. This condition may also be occurring in Well No. 10.

Based on the local hydrogeology, future groundwater development could focus either on the sediments east of the City or on the basalts in the upland portion of the study area. Based on an evaluation of the existing data, it appears that the sediments in the Dundee area's easterly limits are predominantly composed of fine-grained material. Attempting to develop additional successful groundwater supplies in these sediments would require an exploration program to identify higher permeability channel deposits similar to those present in the Newberg well field. A program of this type would entail completing surface geophysical surveys and potentially significant test drilling before a production well could be reliably sited. In addition, the most promising areas for development of the sedimentary aquifer would most likely entail significant surface water interference issues.

Developing additional supplies in the basalts should be preceded by a determination of the causes for decreased capacity in the existing wells so that the City can make informed decisions on how to maximize the capacity of these wells and surrounding aquifers. Development of additional groundwater supplies in the basalts would most effectively be accomplished by drilling exploratory wells to explore the entire thickness of the basalt section. Recommendations related to well rehabilitation supply source capacity expansion needs are presented in Section 6.

Source Water and Water Rights Assessment

While the source analysis found that continued reliance on and further development of groundwater supplies appears to offer the City adequate supplies to the end of the study period, completing the proposed exploratory well drilling program will provide valuable information and data critical to this assessment.

Should the contemplated exploratory well drilling and production well development effort show that the long-term reliance on groundwater supplies may ultimately provide inadequate supplies, the City will need to re-evaluate its long-term supply options. Among the options the City may consider is the use of its currently inactive surface water rights for existing springs located westerly of the City or the development of a new Willamette River water supply as a primary supply. Additionally, it is anticipated that the City will continue to develop and ultimately grow beyond the study period for this plan that projects saturation development by the year 2023. As the City is mandated to plan for future growth additional water supplies will ultimately be needed. It is currently anticipated that new demands will be met by existing and expanded groundwater supplies, however, given the long range uncertainties of these supplies the City should maintain all of its existing and current water rights. Recommended actions in this regard are presented in Section 6.

Pressure Zone Analysis

General

As discussed in Section 2, Dundee's distribution system is currently separated into four service areas, or pressure zones. The planning criteria developed in Section 4 established acceptable service pressure limits for existing and proposed pressure zones. These criteria are used to determine optimal operating elevations of existing and proposed reservoirs and to evaluate existing and proposed pressure zones. For the purpose of this analysis, the Intermediate-PRV Pressure Zone is considered part of the Intermediate Pressure Zone for non-emergency service and relies on the Upper Pressure Zone for emergency fire flows. Table 5-3 summarizes ground elevation service limits for pressure zones and reservoir overflow elevations assuming gravity supply to all pressure zones from storage reservoirs.

Table 5-3
Pressure Zone Service Elevation and Pressure Summary

Pressure Zone	Service Elevation (ft.)	Reservoir Overflow Elevation (ft)	Pressure Range (psi)
Lower	160-300	430	55-115
Intermediate	300-500	583	35-120
Upper	500-540	689	45-80

Lower Pressure Zone

The Lower Pressure Zone is the largest pressure zone in the City and serves all customers below an approximate ground elevation of 300 feet. The zone includes approximately 376 acres of residential, commercial and industrially designated land uses. Service to this zone is provided by gravity from the 0.4 MG Reservoir, and pumped supply from Well Nos. 9 and

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10. In high demand periods, Well Nos. 5 and 6, also referred to as the Pruitt Wells, provide additional supply. Under normal operating conditions, water is pumped from Well No. 3 directly into the 0.4 MG Reservoir, which has an overflow elevation of approximately 429.9 feet. Water is also supplied to the 0.4 MG Reservoir from the 0.05 MG Reservoir under high demand conditions. At saturation development of the service area it is estimated that this zone will serve approximately 5,415 people.

Intermediate Pressure Zone

The Intermediate Pressure Zone is the second largest pressure zone in the City and serves all customers between approximate ground elevations of 300 feet and 500 feet. Water is supplied to this zone by gravity from the 0.05 MG Reservoir, which has an overflow elevation of approximately 582.5 feet. The 0.05 MG Reservoir receives water through 8-inch diameter piping from the 0.2 MG Reservoir. At saturation development of the Intermediate Pressure Zone it is estimated that this zone will serve approximately 740 people.

Intermediate-PRV Pressure Zone

The Intermediate-PRV Pressure Zone is a 10 acre area of the City served by the 0.2 MG Reservoir through a pressure reducing valve (PRV) set at an HGL of approximately 615 feet. As stated previously, this area is considered to be part of the Intermediate Pressure Zone for non emergency service and relies on the Upper Pressure Zone for emergency fire flows.

Upper Pressure Zone

The 689-foot or Upper Pressure Zone serves all customers above an approximate ground elevation of 500 feet. The zone includes approximately 23 acres designated for residential land uses. Service to this zone is provided by the 0.2 MG Reservoir, which is supplied water pumped from the Spring Wells site. The 0.2 MG Reservoir has an overflow elevation of approximately 688.7 feet. At saturation development the estimated population of this pressure zone is approximately 195 people.

Storage Capacity Analysis

General

The storage capacity analysis evaluates existing storage capacities and determines recommended storage volume needs for the water service area and for each pressure zone. Reservoir capacity requirements are developed based on the planning criteria presented in Sections 3 and 4. Estimated reservoir storage volume requirements are based on the sum of equalization, fire suppression and emergency storage volume needs. Table 5-4 summarizes existing storage volume needs and estimated needs at saturation development for each pressure zone.

Table 5-4
Storage Volume Analysis Summary

Pressure Zone	Storage Requirements (mg)		Existing Storage Capacity (mg)	Storage Deficit (mg)	
	Existing	Saturation Development		Existing	Saturation Development
Lower	1.31	1.83	0.4	0.91	1.43
Intermediate	0.21	0.24	0.05	0.16	0.19
Upper	0.14	0.15	0.2	-	-
Storage Deficit				1.07	1.62

Upper Pressure Zone

The results of the storage capacity analysis indicate that there is sufficient storage volume capacity in the Upper Pressure Zone to serve this pressure zone under current conditions and at saturation development. Transmission main improvements are required between the 0.2 MG Reservoir and the Upper Pressure Zone to provide adequate flow capacity during fire and emergency events. These improvements are discussed later in this section 6.

Intermediate and Lower Pressure Zones

The result of the storage capacity analysis indicates the existing storage volume of the Intermediate and Lower Pressure Zones is inadequate to serve existing and future needs. As indicated in Table 5-4, the two zones have a combined storage deficit of approximately 1.62 mg. An analysis of service zone configuration and future development found that the storage needs of the Intermediate and Lower Pressure Zones would be best served by the construction of a new reservoir capable of serving both zones. A review of construction economics for standard size reservoirs in this volume range indicates that the construction of a 1.75 mg reservoir will most economically serve the City's needs. Transmission main improvements and the construction of a PRV between the Intermediate and Lower Pressure Zones will allow the existing 0.05 MG Reservoir and the proposed 1.75 mg reservoir to serve both zones during high demand conditions. The floor elevation and overflow elevation of the proposed reservoir should match the existing 0.05 MG Reservoir at approximately 553 feet and 583 feet respectively. The hydraulic grade setting of the proposed PRV should be approximately 420 feet. This setting is approximately 10 feet below the overflow elevation of the 0.4 MG Reservoir and will allow the PRV to open when the lower zone experiences high flow demands such as during a fire flow event.

A preliminary siting evaluation examined several potential reservoir sites in and around the City limits between ground elevations of 540 and 550 feet. These elevations were selected to allow the construction of the proposed reservoir with floor and overflow elevations matching those of the existing 0.05 MG Reservoir. A potential reservoir site on City-owned land was

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identified adjacent to the existing cemetery west of SW Viewmont Drive. Siting the reservoir on this site minimizes the need for piping improvements since it is close to existing water system facilities. As this site is owned by the City, no land acquisition costs are anticipated. This site would require extensive site development and specialty foundation work prior to reservoir construction. Other sites were identified between the elevations of 540 and 550 feet that would require property acquisitions and more extensive supply system improvements. Reservoir sites considered in this analysis are shown on Plate 1 in Appendix A.

Pumping Capacity Analysis

As described in Section 2, the City's existing water supply is pumped into the distribution system by two booster pump stations and three stand alone well pumps. An analysis of firm pumping capacities for each of the City's booster pump stations is presented below.

Clearwell Booster Pump Station

The Clearwell Booster Pump Station supplies the Upper and Intermediate Pressure Zones by pumping water produced by Well Nos. 1, 2, 7, and 8. The combined production capacity of these four wells is approximately 317 gpm. Currently, this station houses two booster pumps capable of pumping approximately 220 gpm each for a total pumping capacity of approximately 440 gpm. As shown in Table 5-5, the firm pumping capacity of the Clearwell Booster Pump Station is approximately 220 gpm, which is approximately 97 gpm less than the total production capacity of the wells.

Pruitt Booster Pump Station

The Pruitt Booster Pump Station pumps water produced by Well Nos. 5 and 6 into the Lower Pressure Zone. The combined production capacity of these two wells is approximately 270 gpm. This station houses a single booster pump with a pumping capacity of approximately 250 gpm. With only one pump, the firm pumping capacity of this station is zero, and the firm pumping capacity deficit is approximately 270 gpm. Table 5-5 illustrates that firm pumping capacity deficits exist at the Clearwell Booster Pump Station and the Pruitt Booster Pump. Recommended pumping improvements are discussed in Section 6.

Distribution System Analysis

A hydraulic network analysis computer program was used to evaluate the performance of the existing distribution system and to aid in the development of proposed system improvements. The network analysis program utilizes a digital base map of the water distribution system prepared using WaterCAD for AutoCAD network analysis software. The purpose of the computer network modeling is to determine pressure and flow relationships throughout the distribution system for a variety of critical hydraulic conditions. System performance and

Table 5-5
Pump Station Firm Pumping Capacity Analysis

Pumping Facility	Pressure Zone Served	Firm Capacity (gpm)	Total Well Production (gpm)	Deficit (gpm)
Clearwell Booster Pump Station	Upper / Intermediate	220	317	97
Pruitt Booster Pump	Lower	0	270	270

adequacy is then evaluated on the basis of water demand estimates developed in Section 3 and planning criteria presented in Section 4.

Hydraulic Model

For modeling purposes, the water distribution system was digitized onto a digital base map drawing file. This drawing file was then used to perform the system analysis and to illustrate recommended improvements. This drawing file is presented as Plate 1 in Appendix A.

All pipes on the maps are shown as "links" between "nodes" which represent pipeline junctions or changes in pipe size. Pipes and nodes are numbered to allow for easy system updating and revision. These numbers have been assigned to frozen drawing layers and have not been shown for drawing clarity. Diameter, material type and length are specified for each pipe, and an approximate ground elevation is specified for each node. For drawing clarity only pipe diameters are illustrated. Hydraulic elements such as closed valves, pressure reducing valves, pumps and reservoirs are also illustrated and incorporated into the model data base.

Model Calibration

For a computer model to provide accurate results under test conditions it is essential that the model be calibrated with field conditions to reflect actual system operation. Model calibration was performed using actual measured demand distributed over the existing distribution system. Flow data from hydrant flow tests performed by Dundee City staff and MSA staff were compared to pressure and flow results obtained from modeled flows placed at the same locations. The Hazen-Williams roughness coefficients of the pipes and the distribution of demands from the nodes in the model were adjusted until the modeled flow test results fell within approximately ten to fifteen percent of the actual results. This is an acceptable level of calibration. Based on the calibration results, a Hazen-Williams roughness coefficient or C-Factor between 110 and 130 was used for all existing pipes throughout the modeling process. A C-Factor of 120 was used for all proposed pipes.

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Modeling Conditions

To simulate system operation under maximum usage conditions, it is necessary to determine the water usage anticipated for the highest water use day of the year. For this purpose the maximum daily demands at saturation development, previously presented as part of Table 5-2, were distributed throughout the system by service area and pressure zone.

The computer analysis was performed with all pressure zones simultaneously in operation. In order to use the computerized hydraulic model of the water system to assess system adequacy, several system conditions were examined. The adequacy of the system's major transmission piping and the system's ability to provide recommended fire flows throughout the system were analyzed.

All fire flow modeling was performed assuming that all system reservoirs were operating approximately one half to two thirds full and that the system must be capable of providing the recommended fire flows while maintaining a minimum system pressure of approximately 20 psi to all services within the pressure zone of the flow test.

Modeling Results

Transmission System

The results of the transmission system analysis indicate that maximum day demand conditions at saturation development will be adequately supplied by the existing water system and supply configuration. Future water storage capacity and supply source improvements may require pumping capacity improvements to the Clearwell Booster Pump Station. The existing 6-inch diameter transmission line between the Clearwell Booster Pump Station to the 0.2 MG Reservoir is not adequately sized to transmit more than the existing total production capacity of the Spring Wells. In the event that wells are added in this area, additional transmission capacity will be required. Other improvements to the transmission system are required to meet fire flow requirements and are presented below. Improvement sequencing and pipe sizing recommendations are present in Section 6 in addition to detailed project cost estimates.

Fire Flow Modeling

The fire flow modeling found that under maximum day demand conditions at saturation development, improvements are required to provide recommended fire flows in all three pressure zones. Fire flows were simulated throughout the study area based on the estimated fire flow recommendations for land uses as presented in Section 4. These improvements include upsizing existing transmission mains and constructing new transmission mains to overcome system head losses. These locations and proposed improvements are indicated on Table C-5 in Appendix C. Improvement sequencing and pipe sizing recommendations are present in Section 6 in addition to detailed project cost estimates.

System Expansion

As discussed in Section 3, the City of Dundee UGB encompasses approximately 750 acres. According to the Buildable Lands Inventory and Urbanization Project report, the agricultural area within the UGB is expected to be rezoned as residential prior to the build-out. In 1998 the City had approximately 270 acres of net buildable land available within the UGB. The majority of future development is anticipated to occur in the Lower Pressure Zone. System improvements identified above in the transmission system and fire flow analysis will adequately supply these areas from existing and proposed reservoirs and pumping facilities during the planning period.

Water Loss Evaluation

A review of water loss data for the previous four years revealed a discrepancy between well production records and customer water meter records. Records between 1999 and 2001 indicate that City water customers consumed more water that was produced by the City's wells. As such, these records are unreliable for estimating the rate of water loss in the City's supply system. This discrepancy may have been caused by several factors including faulty meters at the well pumps. It is recommended that the City resolve the cause of the discrepancy and monitor water losses over the next one to two years. The water works industry generally considers a level of unaccounted-for water of 15 percent or more to be excessive. The State of Oregon also recently adopted new administrative rules that establish acceptable water losses at this level. If it is determined that City water losses meet or exceed this level, a comprehensive leak detection survey and leak repair program is justified.

Summary

This section developed and presented an analysis of the Dundee's water distribution system. The analysis found that additional storage and pumping facilities as well as piping improvements are needed to adequately meet existing needs and to provide for system expansion needs. Section 6 presents recommendations and a capital improvement plan that includes project sequencing needs, phasing requirements and project cost estimates.

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SECTION 6 RECOMMENDATIONS AND CAPITAL IMPROVEMENT PLAN

General

This section presents recommended water system improvements based on the analysis and findings presented in Section 5. These improvements include proposed supply source, reservoir, pump station and water line improvements. Also presented is a capital improvement program schedule for all recommended improvements. All proposed system improvements are illustrated on Plate 1 in Appendix A. Figure 2-2 illustrates the hydraulic profile of the system with proposed reservoir, pump station and other proposed features illustrated.

Cost Estimating Data

An estimated project cost has been developed for each improvement project recommendation presented in this section. Itemized project cost estimate summaries are presented in Appendix C. This appendix also includes a cost data summary for recommended water main improvements developed on a unit cost basis. Project costs include construction costs and an allowance for administrative, engineering and other project related costs.

Recommended Improvements

General

Presented below are recommended water system improvements for supply sources, reservoirs, pump stations, distribution system water lines and other facilities. Also presented is a discussion of other recommended improvements and programs. Project cost estimates are presented for all recommended improvements and annual budgets are presented for recommended programs. The recommendations are presented by project type and discussed in order of need. A summary of all the recommended improvements is presented in Table 6-1. The table provides for prioritized project sequencing by illustrating fiscal year (FY) project needs for each facility or improvement category. The proposed improvements listed are phased and sequenced for construction over the planning period of 20 years.

Groundwater Wells and Supply Source Improvements

It is anticipated that the City will continue to rely on its existing groundwater wells as its long-term water supply. As presented in Section 5 additional supply source capacity is required immediately. Prior to the construction of full-scale production wells, it is recommended that the City examine increasing the production yield of its existing wells, specifically Well Nos. 3 and 10, and complete an exploratory well drilling effort. A detailed discussion of these recommendations and others related to the City's groundwater well supplies is presented below.

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Table 6-1
City of Dundee
Water System Master Plan
Capital Improvement Program Summary

Capital Improvement Schedule and Project Cost Summary by Fiscal Year																									Estimated Project Cost
Category	Project Description	Project Location	2003/2004	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2023+	
Supply System and Groundwater Wells	Water Rights Extensions and Final Proof Surveys	All Zones	Water Rights Work \$ 10,000																						\$ 10,000
	WMCP Plan	All Zones		WMCP Plan \$ 20,000																					\$ 20,000
	Purchase Well Nos. 5 & 6 and Fruit Booster Pump Station	Lower Pressure Zone	Purchase Facilities																						\$ -
	Exploratory Well Drilling	All Zones	Exploratory Well \$ 125,000			Exploratory Well \$ 125,000				Exploratory Well \$ 125,000															\$ 175,000
	Production Well Construction	All Zones		Production Well \$ 850,000			Production Well \$ 850,000				Production Well \$ 850,000					Production Well \$ 850,000						Production Well \$ 850,000			\$ 4,250,000
	Well Rehabilitation	All Zones	Well No. 10 Rehab \$25,000		Well No. 3 Rehab \$ 25,000																				\$ 50,000
																									\$ 4,795,000
		Sub-Total	\$ 160,000	\$ 870,000	\$ 25,000	\$ 125,000	\$ 850,000	\$ -	\$ -	\$ 125,000	\$ 850,000	\$ -	\$ -	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,700,000
Storage Facilities	1.75 MG Reservoir Construction	Intermediate / Lower Zone	Preliminary Eng \$ 100,000	Reservoir Construction \$ 1,300,000	\$ 1,300,000																				\$ 2,700,000
	0.2 MG Reservoir	Upper Pressure zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000			Maintenance \$ 50,000																\$ 61,000
	0.05 MG Reservoir	Intermediate Pressure Zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000			Maintenance \$ 35,000																\$ 46,000
	0.4 MG Reservoir	Lower Pressure Zone	Inspection \$ 3,000			Seismic Eval. \$ 8,000		Maintenance \$ 20,000																	\$ 31,000
	0.085 MG Reservoir	Lower Pressure Zone						Demolition \$ 50,000																	\$ 50,000
																									\$ 2,816,000
		Sub-Total	\$ 109,000	\$ 1,300,000	\$ 1,300,000	\$ 24,000	\$ 20,000	\$ 85,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,816,000
Pumping Facilities	Clearwell Booster Pump Station Improvements	Upper Zone				Clearwell Pump Station \$ 45,000																			\$ 45,000
	Fruit Booster Pump Station Replacement	Lower Zone			Fruit Pump Station \$ 300,000																				\$ 300,000
		Sub-Total	\$ -	\$ -	\$ 300,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,000
Distribution System	Distribution System Improvements	Lower Pressure Zone	Upland 12-inch \$ 103,700		Dogwood 12-inch \$ 43,920		5TH 12-inch \$ 317,200		NE 11TH 12-inch \$ 196,420	SE 11TH 12-inch \$ 97,600		Locust 8-inch \$ 197,800	9TH 8-inch \$ 128,800			SH 11th 8-inch \$ 48,760	Edwards 12-inch \$ 261,000								\$ 1,395,280
		Intermediate Pressure Zone		Upland 16-inch \$ 163,000							Alder 8-inch \$ 59,800														\$ 222,800
		Upper Pressure Zone				Warden 12-inch \$ 292,600		Viewmont 8-inch \$ 122,360					Rad Hills Loop 8-inch \$ 82,800	Walnut 8-inch \$ 66,240											\$ 564,200
	Pressure Reducing Valve	Intermediate / Lower Pressure Zone			Upland 12-inch \$ 94,000																				\$ 94,000
	Waterline Replacement Program	All Zones	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	Replacement \$ 85,000	\$ 1,785,000
		Sub-Total	\$ 188,700	\$ 248,000	\$ 222,920	\$ 377,800	\$ 402,200	\$ 207,360	\$ 281,420	\$ 144,600	\$ 187,600	\$ 282,800	\$ 296,600	\$ 151,240	\$ 85,000	\$ 133,760	\$ 246,080	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 4,041,280
Other	Telemetry System	All Zones	Telemetry System Evaluation \$ 20,000	Telemetry System Improvements \$ 150,000																					\$ 170,000
																									\$ 170,000
		Sub-Total	\$ 20,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 170,000
		Total	\$ 477,700	\$ 2,568,000	\$ 1,847,920	\$ 526,800	\$ 1,317,200	\$ 297,360	\$ 331,420	\$ 269,800	\$ 1,012,600	\$ 282,800	\$ 296,600	\$ 151,240	\$ 935,000	\$ 133,760	\$ 446,080	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 85,000	\$ 12,169,280
																									\$ 12,169,280

\$ 3,045,700
2 Year Total
\$ 1,522,850
Annual Ave.

\$ 6,737,620
5 Year Total
\$ 1,347,524
Annual Ave.

\$ 7,361,400
7 Year Total
\$ 1,051,629
Annual Ave.

\$ 8,946,600
10 Year Total
\$ 894,660
Annual Ave.

\$ 10,809,280
15 Year Total
\$ 720,619
Annual Ave.

\$ 12,169,280
21 Year Total
\$ 579,490
Annual Ave.

Water Rights Extension Applications and Final Proof Surveys

It is recommended that the City immediately file for water right extensions for Well Nos. 1, 2, 3, 4 and 10, and the City's Willamette River water right. These extension applications should be submitted in accordance with current Oregon Water Resources Department (OWRD) requirements. It is also recommended that the City complete final proof surveys of Well Nos. 8 and 9. For these two wells it is recommended that the City complete full perfection of these rights. As stated in Section 5 it is vital for the City to maintain all of its current groundwater and surface water rights to allow for potential uncertainties and ultimate demand growth beyond the year 2023. It is recommended that a budget of \$10,000 be established to complete the recommended extensions and final proof surveys. The status of all the City's current water rights, and those of Well Nos. 5 and 6, in addition to a summary of recommended actions for each right is presented in Table D-1 in Appendix D.

Water Management and Conservation Plan

New Oregon Administrative Rules now mandate the preparation of a Water Management and Conservation Plan (WMCP) in accordance with Division 86 guidelines. It is recommended that the City prepare and submit such a plan within the next three years. It is anticipated that the completion of this plan will be a condition of approval for the water right extension applications discussed above. Many of the WMCP requirements can be met with data and information developed and presented as part of this master planning effort. A copy of the Division 86 requirements is presented in Appendix E of this document. It is recommended that the City implement a formal water conservation program in accordance with State guidelines following the completion of the Water Management and Conservation Plan. It is recommended that a budget of \$20,000 be established to complete this planning effort.

Well Rehabilitation Program

It is recommended that the City implement a program for rehabilitating its existing wells that are showing signs of decreasing production capacity. While certain production capacity reductions may be the result of general aquifer-wide water level declines, in certain cases successful well rehabilitation may restore production capacity to some wells. It is recommended that Well Nos. 3 and 10 be evaluated for immediate rehabilitation efforts. The estimated budget for the rehabilitation of these wells is \$50,000 as shown in Table C-1 in Appendix C.

Groundwater Supply Source Data Collection

Anticipating the conditions that the OWRD may attach to the City's water right extension approvals, and in accordance with the new WMCP requirements, it is recommended that the City establish a data collection system for its groundwater wells. This program includes collecting water level and production data on an automated and continuous basis. It is anticipated that much of this data will be collected once recommended telemetry system

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improvements, discussed later in this section, are completed. The capital costs associated with this effort are included in telemetry system capital costs.

Pursue Ownership of Well Nos. 5 and 6

The City presently relies on the Well Nos. 5 and 6 for over 30 percent of the City's peak supply production capacity. Currently, all water produced by Well Nos. 5 and 6 is purchased by the City through an agreement with the well's current owner. The City also currently maintains and operates these wells. It is recommended that the City pursue full ownership of both wells and associated facilities. Ownership of these facilities provides the City significant supply source security and allows the City unencumbered ability to manage all of its source water wells, conduct required monitoring and operational services, and complete needed improvements. Later in this section telemetry system improvements are recommended that include modifications and upgrades at all of the City's existing groundwater wells. Recommendations are also made for the abandonment and replacement of the Pruitt Booster Pump Station to provide adequate firm pumping capacity for Well Nos. 5 and 6. Recognizing the potentially sensitive nature of the negotiation and acquisition efforts related to this recommendation, no budget has been established for this effort.

Exploratory Well Drilling

As stated above the City currently has adequate firm source capacity to meet its current supply needs. It is recommended that the City complete an exploratory well drilling program to determine the best location for the construction of a new groundwater production well. Based on the hydrogeologic evaluation presented in Section 5 and discussion with City staff, it is recommended that the City's first exploratory well be drilled near the City's existing 0.2 MG Reservoir. It is recommended that the exploratory well be drilled to a depth that penetrates the entire CRBG section to the underlying marine sediments. As discussed in Section 2 and 5 it is critical to determine the characteristics of the formation for the City's long-term water supply source operation and expansion. Should the exploratory well at the site recommended above find that the aquifer is inadequate for City water supply purposes, it is recommended that exploratory wells be drilled in an area west of the Well Nos. 5 and 6 and also on the City owned property north of the cemetery. The completion of these exploratory wells will provide significant and important data that will allow the City to make the most informed and economical decisions concerning the location and feasibility of future supply source wells. For budgeting purposes it is recommended that the City plan on drilling three exploratory wells. The estimated project cost for each of these wells is \$125,000.

Production Well Construction

It is recommended that additional groundwater supply sources be developed to provide adequate firm supply capacity to meet the City's water demand projections. Assuming that each new production well will provide approximately 150 gpm of production capacity it is estimated that five new wells will be needed over the study period. For budgeting purposes it

is estimated that each of these new wells will have a project cost of approximately \$850,000. A breakdown of this project cost estimate is presented in Table C-2 in Appendix C. The projected cost estimate of these wells should be reevaluated following the completion of the exploratory well program. The recommended schedule and budget for the construction of additional wells is illustrated on Table 6-1.

Reservoirs

The Section 5 storage analysis found that the Lower and Intermediate Pressure Zones currently have storage capacity deficiencies. The combined storage deficit of these two zones is estimated to be approximately 1.63 MG by the year 2023. For reservoir sizing economic considerations, it is recommended that a new 1.75 MG reservoir be constructed to serve the Lower and Intermediate Pressure Zones. As indicated in Table 6-1 the recommended construction of this reservoir is a high priority it and should be constructed within the next 5 years. The estimated project cost for this recommended reservoir is approximately \$2,700,000 assuming a pre-stressed concrete. Alternatively, the project cost estimate for a welded steel reservoir of the same size is approximately \$2,100,000. A detailed breakdown of these project cost estimates is presented on pages C-3 and C-4 of Appendix C.

The conceptual level siting analysis completed in Section 5 indicated the general layout and siting of this proposed reservoir. It is recommended that preliminary engineering efforts begin immediately for this facility. This effort should include the following:

1. Site specific design surveys
2. Final siting of the reservoir structure
3. Geotechnical investigations including borings and a site specific seismic analysis
4. Commence the conditional use permitting and approval process

It is recommended that final design efforts begin as soon as preliminary engineering efforts are completed.

Reservoir Evaluation Program

It is recommended that the City develop a comprehensive routine maintenance program for its existing and proposed reservoirs. For concrete reservoirs, this program should include periodic leak detection inspections and monitoring. For steel reservoirs, this program should include coating system evaluations, and corrosion protection system evaluations. A description of recommended inspections for each existing reservoir is provided below.

0.2 MG and 0.05 MG Reservoirs

A comprehensive inspection of the interior and exterior coating system of the 0.2 MG and 0.05 MG Reservoirs is recommended. This inspection includes draining the reservoirs to

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facilitate a visual inspection of the interior coating system to determine the extent and nature of any corrosion, and to determine if a cathodic corrosion protection system is required. New interior and exterior coating systems may be required for each reservoir. For the 0.2 and 0.05 MG Reservoirs, removal and replacement of the existing interior and exterior coating system is estimated at approximate project costs of \$50,000 and \$35,000 respectively. Installation of a cathodic protection system, should it be required, is estimated to be approximately \$25,000 for the 0.2 MG Reservoir and \$20,000 for the 0.05 MG Reservoir Table C-5 in Appendix C.

0.4 MG Reservoir

A comprehensive inspection of the 0.4 MG Reservoir is recommended within the next two years. The initial inspection should include a leak detection test and an inspection of the interior floor, wall, roof and pipe penetration joint seals. Following this inspection, the reservoir should be monitored for leaks and other signs of deterioration. The average service life of a reservoir of this type is 50 years. At 40 years old, this reservoir has approximately 10 years of service life remaining. With proper maintenance, the remaining service life of the 0.4 MG Reservoir could be extended beyond 10 years.

It is also recommended that the City complete a seismic evaluation of its existing reservoirs. The evaluation should include structural reviews of each reservoir and site-specific geotechnical evaluations. It is recommended that this program start in FY 2006/2007 and that a total project budget of \$24,000 be established to fund this effort for all reservoirs.

Pump Stations

It is recommended that improvements be made to increase the firm pumping capacity at the Clearwell Booster Pump Station and the Pruitt Booster Pump. The analysis in Section 5 identified a firm pumping capacity deficit in each pump station. A description of each recommendation is shown on Table 6-1 and is discussed in detail below.

Clearwell Booster Pump Station Improvements

Section 5 identified a firm pumping capacity deficit of approximately 97 gpm at the Clearwell Booster Pump Station. The pump station is currently equipped with two 220 gpm vertical turbine pumps. It is recommended that a third 220 gpm booster pump be installed at the station. The existing facility has capacity for the installation of a third vertical turbine pump without the need to significantly modify the clearwell or the building structure. It is further recommended that these improvements be initiated following the completion of the exploratory well program. Should exploratory well drilling efforts be successful in this area then the Booster Station capacity increase should include consideration of the new well(s). Installation of an additional 220 gpm booster pump is estimated to cost \$45,000.

Pruitt Booster Pump Station Improvements

The pumping analysis in Section 5 identified the Pruitt Booster Pump Station as having a firm pumping capacity of zero, as it houses only one pump. To meet the firm pumping capacity requirement of Well Nos. 5 and 6, the Pruitt Booster Pump Station should be upgraded to provide a firm pumping capacity of approximately 270 gpm. The existing pump station structure, piping and appurtenances have limited capacity for improvements and would require extensive rework to meet this demand. In addition, the pump station is currently located on private property and is not owned by the City. As such, it would be cost prohibitive to improve the existing pump station.

Due to its current location adjacent to an existing home, it is recommended that the Pruitt Booster Pump Station be abandoned and replaced by a new pump station constructed in its place, or on another available land parcel near Well Nos. 5 and 6. The new pump station should house two booster pumps with pumping capacities of approximately 270 gpm each. For budgeting purposes, it is estimated that the abandonment of the Pruitt Booster Pump Station and the construction of a new booster pump station will cost \$300,000 as presented in Table C-7 in Appendix C. This estimate does not include costs due to property acquisition or piping improvements needed to convey water from the wells to a new pump station site. It is recommended that the pump station and associated wells be fully owned by the City and that a preliminary engineering element be complete prior to initiating the recommended improvements. As part of these preliminary engineering efforts it is recommended that consideration also be given to improving Well Nos. 5 and 6 to operate as stand-alone pumping facilities, with well pumps capable of pumping directly into the distribution system. This approach could potentially eliminate the need to replace the existing pump station.

Distribution System Improvements

The analysis found that distribution system water line improvements are needed to provide improved hydraulic transmission capacity within the distribution system, provide for improved fire flow capacities and provide for system expansion needs. Section 5 presented detailed pressure zone evaluations that included discussions and descriptions of water line improvement needs for each zone. Included in these discussions were specific water line improvements required as part of recommended reservoir and pump stations improvements. For the purpose of this section recommended distribution system improvements are grouped in the following general categories:

1. Water line improvements needed to improve distribution system transmission capacity including improvements associated with planned roadway improvements and improvements related to specific proposed reservoir and pump station improvements.
2. Improvements related to improving fire flow capacities.
3. Pressure reducing station improvements.

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4. Water main replacement program.
5. Distribution system oversizing program.

Table 6-1 presents recommended distribution system water line improvements for each FY up to FY 2023. Each improvement is identified by category and includes an estimated project cost. A breakdown of estimated piping improvement costs by pressure zone is given in Table C-9 in appendix C. Certain improvements are recommended for completion within the next two fiscal years. Presented below are brief summary descriptions of recommended water line improvements for each pressure zone.

Lower Pressure Zone

It is recommended that distribution system water line improvements be completed in the Lower Pressure Zone to improve fire flow capacities and to provide for system expansion needs. Approximately 11,910 lineal feet of 12-inch and 8-inch diameter mains are recommended for construction in this pressure zone. The majority of these improvements is required to meet existing fire flow demands and will also result in meeting system capacity requirements at saturation development.

An additional 3,450 lineal feet (lf) of 12-inch diameter piping is shown on Plate 1 in Appendix A serving the undeveloped area of the UGB in the southeast portion of the Lower Pressure Zone. Currently this area is zoned for residential land uses. The Oregon Department of Transportation is currently proposing major highway by-pass improvements in this portion of the City. As such, it is reasonable to assume that future properties adjacent to the proposed highway may be designated for commercial and other similar land uses. Should this type of local development occur the proposed 12-inch diameter main will be required to serve this area. The estimated project cost for this improvement is \$420,900. It is anticipated that the funding and construction of this improvement will be completed by private interests as this area is developed. Following the completion of these improvements it is further anticipated that these facilities will become City-owned and operated facilities.

Intermediate Pressure Zone

Recommended improvements to the Intermediate Pressure Zone will meet the required fire flow capacity needs of this Zone. Like the Upper Pressure Zone, the analysis found that the Intermediate Zone has adequate capacity to meet existing and projected maximum day demands. The proposed 16-inch diameter pipe on SW Upland Drive will also provide improved transmission of water from the existing 0.5 MG and proposed 1.75 MG Reservoirs to the Intermediate Pressure Zone, and to the Lower Pressure Zone through the proposed PRV. Estimated construction costs for the proposed PRV are given in Table C-10 in Appendix C

Upper Pressure Zone

It is recommended that approximately 5,400 lf of 8-inch and 12-inch diameter transmission line be installed in the Upper Pressure Zone. The analysis found that, in general, the Upper Pressure Zone has adequate capacity to meet existing and projected maximum day demands. Improvements recommended in this zone are intended to improve fire flow capacity, which is presently inadequate. Some of these recommended improvements, such as those on SW Warden Hill Road, will also increase supply capacity to the existing 0.05 MG Reservoir and the proposed 1.75 MG Reservoir.

Ongoing Water Main Replacement Program

It is recommended that the City's current water main replacement program continue. This program provides for the routine replacement of leaking, damaged and older water mains throughout the water system. In most cases the existing mains have adequate capacity and will be replaced with the same diameter water mains. It is recommended that \$85,000 be budgeted annually for this program. This funding amount assumes an average service of approximately 75 years for water system piping.

Telemetry System Evaluation

The City's telemetry and supervisory control system requirements have exceeded the capability of their existing system. As part of this study a limited review and inventory of the water system telemetry and supervisory control system has been completed. It is recommended that the City complete a comprehensive evaluation of its telemetry system to include a detailed inventory and analysis of this system. It is recommended that the City budget \$20,000 in FY 2003/04 for this effort. Certain telemetry and supervisory control system improvements and upgrades should be implemented in conjunction with the construction of proposed supply, storage and transmission system improvements. It is also recommended that needed water system telemetry improvements be completed in coordination with telemetry system improvements anticipated for completion as part of the City's planned wastewater system improvements. For the purposes of this study it is recommended that approximately \$150,000 be budgeted in FY 2004/2005 for telemetry system capital needs. It is further recommended that this budget be revised as needed based on the results of the telemetry system evaluation.

Unaccounted-for Water Evaluation

The unaccounted-for water analysis completed in Section 5 was inconclusive as it indicates that more water is being consumed than is being produced by the wells. It is recommended that the City investigate and resolve the source of the data inconsistencies and continue to monitor its unaccounted-for water and continue leak detection and repair efforts. It is also recommended that the City continue its ongoing meter testing and replacement programs and its water main replacement program as previously discussed in this section. The completion

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of recommended telemetry systems will also allow the City to more closely and accurately monitor its water production and consumption data.

Summary

This section presents recommendations for new reservoirs, pump stations and water line improvements. The total estimated project cost of these improvements is approximately \$12.0 million. The highest priority need for the City is to develop additional supply source capacity. The recommendations presented in this section outline a plan to evaluate increasing the production capacity of existing City wells and immediately begin an exploratory well drilling program to determine the most feasible location for additional production wells. Also presented are recommendations for other water system improvements and an implementation schedule for all recommended improvements. Section 7 presents a financial review related to implementing the recommended capital improvement program.

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WATER RESOURCES DEPT
SALEM, OREGON

SECTION 7

SECTION 7

FINANCIAL EVALUATION

General

This section forecasts a financial strategy necessary for completing the recommended capital improvement program identified in Section 6 of the Master Plan. It also describes resultant rate impacts to utility customers and lays out a recommended action plan for moving forward. The financial analyses described are based on current budgetary data for water-related funds, as provided by the City and escalated for future performance, as well as the schedule of capital projects identified in Section 6.

Please note that the figures described in this section, especially capital projects costs, are expressed in future dollars and therefore, will differ from those listed in previous sections of the Plan.

Overview of Financial Operations

The City of Dundee manages its water utility as an enterprise, which means that the utility's total financial obligations must be met in full by utility-specific resources only, such as rates, system development charges (SDCs), capital financing proceeds, and miscellaneous operating and interest income. From these resources, the utility must cover its annual operating, maintenance, and administrative expenses and fund investments made in-system infrastructure.

The City accounts for the water utility's programs in three funds: an Operating Fund (#04), a Capital Improvement Program (CIP) Fund (#05), and a Debt Service Fund (#06). The Operating Fund manages the daily cash flow of ongoing utility operations and administration. It is the pool of cash from which general utility expenses are paid, such as payroll, services, and supplies. Rate revenues serve as the primary resource for meeting these expenditures. The CIP Fund is established to accumulate cash reserves dedicated strictly to fund future capital expenditures. The primary resources for this fund include specific transfers of surplus cash from the Operating Fund, SDC revenues, and any proceeds from grants or debt service acquired to finance projects. The Debt Service fund manages required reserves and payment of existing debt service obligations.

The City's 2003/2004 operating budget anticipates expenditures of \$350,035, with revenues totaling \$335,152. Of that amount, rate revenue contributes \$275,000. In the new fiscal year, the utility also projects to fund \$557,700 in capital expenditures. The water utility itself carries no debt service obligations that must be paid from water revenues; however, the City is currently repaying General Obligation (GO) bonds related to past water projects, funded by general City tax resources.

Financial Forecasting Method

To determine the amount of annual revenue needed to fulfill the complete obligations of the City's water utility, including the recommended capital improvement program, a revenue requirements analysis was performed. The primary output of this analysis was the required annual percentage increase to the utility's current monthly service rates needed to support the annual obligations of the program. In identifying this output, a financial forecast was prepared:

- Capital funding requirements were forecasted, comparing capital project costs against the estimated capital resources available to fund them, such as SDC revenue, cash reserves, and when needed, new debt proceeds.
- Operations requirements were forecasted, identifying annual operating, maintenance, administrative, debt repayment, and fiscal policy costs to be incurred and forecasting operating resources available to cover them, specifically water rate revenue.
- Cash flow in the utility's operating and capital funds were forecasted, tracking resource availability, compliance with fiscal policies, and overall ability to fund the complete needs of the water utility.

These forecasts generated the analytical inputs for a revenue sufficiency test that determined whether annual cash obligations associated with operations and the capital program can be met by existing revenues, and if not, identified the rate increases required to bring revenues in line with the utility's complete obligations.

Capital Funding Resources

In assessing capital funding needs, there are several resources available to the water utility, in addition to any accumulated, surplus cash from rates: SDCs, traditional debt service, and special assistance programs.

System Development Charges

The water utility currently imposes an SDC of \$3,469 per equivalent unit for each new connection to the system. The SDC is intended to represent a pro rata share of the costs of utility infrastructure, both existing and future, available to serve growth. At its current level, the utility budgets slightly over \$50,000 in annual revenue from SDCs. This revenue is reserved in the SDC Fund and may only be spent on capital projects which increase capacity in the system.

At the current charge, if growth occurs as projected in Section 3 of this Plan, the utility could generate over \$150,000 per year in SDC revenue, which serves as an important resource in funding the identified capital projects. Given the magnitude of the projects described in

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Section 6, the City should update its SDC to reflect current planning data. This may result in additional resources available to fund the capital program, which could represent a lesser burden to be imposed through rates.

Traditional Debt Service

While various structures and repayment options exist under each, there are two primary forms of traditional debt service: revenue bonds and general obligation (GO) bonds.

Revenue bonds may be used for any revenue-producing project and are paid off by the revenues generated from the specific project. In this case, water rate revenues would be the dedicated payment stream for these bonds. Revenue bonds are sold in the open securities market. Proceeds for the City's project are generated from buyers of the revenue bonds. No public vote is automatically required to issue revenue bonds, but statute provides for a petition process if citizens desire to force a vote prior to sale.

In addition to interest currently hovering around 5.00% for 20-year bonds, the City can expect to bear issuance costs associated with the sale of revenue bonds, typically paid out of debt proceeds. These costs include professional costs associated with the sale, closing costs, and insurance costs. The City will also agree to a set of covenants upon the sale of the revenue bonds, typically dictating the terms of repayment, call features, default, maintenance of a bond reserve, and coverage. An added burden to rates, coverage mandates that the revenue stream dedicated to repaying the bonds be sufficient to cover the cash operating expenses of the utility, the annual debt service payment for the revenue bonds, and an amount greater than the debt service payment, typically anywhere from 10% to 50% of the annual debt service.

GO bonds are securities backed by the full faith and credit of the City and are repaid with general tax revenues, rather than water rates. GO bonds are sold in the open securities market, but require a public vote before they can be marketed. Proceeds for the City's project are generated from buyers of the bonds. Because GO bonds are backed by the taxing authority of the City, they are deemed lower risk than revenue bonds, are easier to market, and carry lower costs. Interest rates are currently hovering around 4.75% for 20-year terms.

The City can expect to bear issuance costs associated with the sale of these bonds, typically rolled into the proceeds of the sale. While the City will agree to covenants associated with the GO debt, the covenants will not include reserve and coverage requirements like revenue bonds do.

Special Assistance Programs

This section is concentrated on the special loan programs commonly available from the State. It should be noted that while some of these programs may also have grants, they are more highly competitive than the loan programs and therefore, difficult to plan for in this type of

analysis. In the event the City pursues and is awarded any grants, those funds would diminish some, though not all, of the increased revenue needs described later in this section.

The Oregon Economic and Community Development Department (OECDD) administers the Water/Wastewater Financing Program and the Special Public Works Fund loan and grant programs. They were established to provide financing to communities to ensure compliance with the Safe Drinking Water Act or the Clean Water Act by creating or improving water source, treatment storage and distribution, wastewater collection and capacity, storm system, and purchase of rights of way and easements necessary for infrastructure design and construction engineering.

Funds are available to this program from state lottery proceeds and the sale of state revenue bonds. The maximum direct loan amount is \$1,000,000 when financed with lottery funds and \$10,000,000 when financed through the sale of state revenue bonds.

A rolling application period is available to communities that wish to apply for financing; awards are made year-round. The OECDD organizes a meeting of those agencies that may be able to provide funding for the proposed project(s).

The maximum loan repayment period is 25 years and may not exceed the estimated useful life of the project. The interest rate for loan agreements made in the first quarter of 2003 was roughly 5.00% for loans awarded from lottery funds and 4.50% for revenue bond funded awards.

Capital Funding Strategy

Based on forecasted financial performance, including growth in the water utility's customer base, the City will likely debt finance the majority of the recommended capital improvement program. The ten-year capital funding requirements total \$9.87 million, a level of expenditure greatly in excess of current cash on hand, outside the ability for current rates to generate surplus cash for capital, and paced such that SDCs cannot cover the majority of the cost up-front. Given this, over three-quarters of the capital program will be debt-financed, as illustrated in Table 7-1.

Taking on this level of debt service results in additional annual cash obligations that must be borne by water rates, as the primary resource of the utility. Under the strategy in Table 7-1, the utility will be bearing annual debt repayment of over \$565,000 by fiscal year 2012/13, assuming a 20-year term at 4.50%, compared to current annual revenues of roughly \$335,000. In order to satisfy new debt obligations associated with fully implementing the capital program, in addition to ongoing operations and maintenance, water rates must increase.

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Table 7-1
Capital Funding Strategy

	FY 2003/04 – FY 2012/13	Percent of Total
Total Capital Projects	\$ (9,874,198)	
Estimated Resources:		
Accumulated Cash Reserves	645,331	6 %
System Development Charges	1,649,590	17 %
New Debt Proceeds	7,579,277	77 %
Total Resources	\$ 9,874,198	100 %

Rate Revenue Sufficiency

The City may be able to complete the capital program and fully cover its ongoing operating costs by increasing rates 21% per year for five years, beginning immediately in 2003. In the current fiscal year, that adjustment would generate an additional \$54,000 over current rate revenues of \$257,000. After ten years and completion of this strategy, it is estimated that the City would collect over \$970,500 from water rates, more than half of which would be dedicated to repaying debt. Table 7-2 illustrates annual rate revenue requirements.

This type of annual, level rate adjustment strategy serves several purposes. Foremost, it moves rates into a more healthy position from which to acquire debt service on positive terms. Secondly, while substantial increases in and of themselves, this strategy implements what would otherwise be even steeper impacts on water customers in a smooth, progressive manner. As Table 7-2 shows in the current fiscal year, a 21% increase in revenues is not necessary to fully fund the program in 2003/04. However, left unadjusted now, rates would need to increase over 96% in one step by 2005/06 in order to fund the capital program. Table 7-3 details financial performance after annual rate adjustments beginning in 2003.

This revenue strategy also maintains positive fund balances in each utility fund, though cash on hand is used to the benefit of ratepayers in funding as much of the capital program as possible from existing resources before issuing new debt. To that extent, fund balances in the Water Operating Fund, Water CIP Fund, and Water SDC fund are drawn down to minimum levels during the forecast period. Minimum working capital of 15% of annual operating expenses is projected to be maintained throughout the period to safeguard against any short-term, minor revenue instability from changes in customer consumption patterns.

Table 7-2
Annual Rate Revenue Requirements (assumes no rate increases)

Fiscal Year Ending										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Annual Revenues										
Water Rates	\$ 257,000	\$ 267,911	\$ 279,284	\$ 291,141	\$ 303,501	\$ 316,386	\$ 329,818	\$ 343,820	\$ 358,416	\$ 373,632
Other	78,125	78,999	80,651	79,371	78,346	74,955	74,955	75,069	75,130	75,193
<i>Subtotal</i>	<i>335,152</i>	<i>346,909</i>	<i>359,936</i>	<i>370,512</i>	<i>381,847</i>	<i>391,341</i>	<i>404,772</i>	<i>418,889</i>	<i>433,546</i>	<i>448,825</i>
Annual Expenditures										
Operating	350,035	279,683	289,705	300,115	310,930	322,166	333,840	345,973	358,581	371,685
Debt Service	5,233	125,453	336,925	444,350	515,941	574,630	579,117	589,531	582,857	567,364
<i>Subtotal</i>	<i>355,268</i>	<i>405,136</i>	<i>626,630</i>	<i>744,465</i>	<i>826,871</i>	<i>896,795</i>	<i>912,957</i>	<i>935,503</i>	<i>941,438</i>	<i>939,049</i>
Surplus (Deficiency)	(20,116)	(58,227)	(266,694)	(373,953)	(445,024)	(505,455)	(508,185)	(516,614)	(507,892)	(490,224)

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Table 7-3
Annual Revenue Requirement After Recommended Rate Increases

Fiscal Year Ending										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Annual Rate Increase	21.00%	21.00%	21.00%	21.00%	21.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Annual Revenues	7,148									
Water Rates	\$ 310,970	\$ 392,248	\$ 494,769	\$ 624,087	\$ 788,370	\$ 821,841	\$ 856,731	\$ 893,103	\$ 931,018	\$ 970,544
Other	78,125	78,999	80,651	79,371	78,346	74,955	74,955	75,069	75,130	75,193
Subtotal	389,122	471,246	575,421	703,458	866,716	896,795	931,686	968,172	1,006,148	1,045,736
Annual Expenditures										
Operating	350,035	279,683	289,705	300,115	310,930	322,166	333,840	345,973	358,581	371,685
Debt Service	5,233	125,453	336,925	444,350	515,941	574,630	579,117	589,531	582,857	567,364
Subtotal	355,268	405,136	626,630	744,465	826,871	896,795	912,957	935,503	941,438	939,049
Surplus (Deficiency)	33,854	66,110	(51,209)	(41,007)	39,845	-	18,729	32,669	64,710	106,687

✓ 99.96%
 Water 48,755
 Bond
 P.D. off
 7,148
 Cash
 Carryover

Table 7-4
Current Water Rates and Recommended Rates for 2003/04

Water Rate Schedule	Current Rate		Rate with 21% Increase	
	Inside City	Outside City	Inside City	Outside City
Residential				
Basic Customer Service Charge (3/4")	\$3.00	\$3.50	\$3.63	\$4.24
1" meter	\$4.00	\$6.00	\$4.84	\$7.26
Meter Maintenance Charge (3/4")	\$1.50	\$2.00	\$1.82	\$2.42
1" meter	\$2.00	\$3.00	\$2.42	\$3.63
Consumption Charge (min 667 cf)	\$0.0135 per cf			
Commercial				
Basic Customer Service Charge				
1' meter	\$6.00	\$9.00	\$7.26	\$10.89
2" meter	\$9.00	\$13.50	\$10.89	\$16.34
3" meter	\$12.50	\$19.00	\$15.13	\$22.99
4" meter	\$15.50	\$23.00	\$18.75	\$27.83
Meter Maintenance Charge				
1" meter	\$2.00	\$2.00	\$2.42	\$2.42
1.5" meter	\$3.00	\$3.00	\$3.63	\$3.63
2" meter	\$4.50	\$4.50	\$5.45	\$5.45
2" turbine meter	\$6.00	\$6.00	\$7.26	\$7.26
3" turbine meter	\$8.75	\$8.75	\$10.59	\$10.59
3" compound meter	\$17.50	\$17.50	\$21.18	\$21.18
4" compound meter	\$29.00	\$29.00	\$35.09	\$35.09
Consumption charge (min 833 cf)	\$0.0120 per cf		\$0.0145 per cf	
Fire Flow	\$12.50	\$12.50	\$15.13	\$15.13
Construction	\$0.0120 per cf		\$0.0145 per cf	
Irrigation	\$0.0135 per cf		\$0.0163 per cf	

Monthly Water Rates

To complete the capital funding and revenue strategy outlined above, the City will need to amend its existing water rate schedule to generate adequate levels of revenue. Table 7-4 illustrates the utility's current rates and also, the same rate schedule assuming a 21% across-the-board increase.

Focusing on a residential customer with 1,000 cubic feet of consumption, the recommended rate adjustments represent a monthly increase of roughly \$3.75 in 2003/04. Table 7-5 summarizes a typical residential bill over the period for which annual rate increases of 21% are recommended.

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Table 7-5
Sample Residential Water Bill (1,000 cf Consumption)

Fiscal Year	Monthly Bill
2003/04 – Before Rate Increase	\$ 18.00
2003/04 – After Rate Increase	\$ 21.78
2004/05	\$ 26.35
2005/06	\$ 31.89
2006/07	\$ 38.58
2007/08	\$ 46.76

It should be noted that some of the State's special infrastructure loan programs define a standard for determining whether utility rates have reached "hardship" levels. That standard is 1.5% of median household income. Using census data from 2000, a monthly bill in the City of Dundee would need to reach \$63.00 before passing the State's minimum hardship standard.

Summary Recommendations

The following items are recommended for the City's future action, both in implementing the results of this Water System Master Plan and to continue strengthening the financial performance of the water utility:

- **Water Rate Levels** – The City should immediately begin a series of annual rate increases necessary to debt finance the Plan's capital improvement program. Increases on the order of 21% per year, if taken for five consecutive years, would position the utility to fund all currently identified needs over the next ten years.
- **System Development Charges** – The City should update its water SDC to reflect the system improvements identified in this Plan. An updated SDC would not only ensure that new connections pay their fair share of investments made to increase capacity for their needs, but it would also serve as another capital funding resource that may off-set some of the rate impacts described in this section.

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APPENDIX



APPENDIX B REFERENCES

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- City of Dundee Report on Proposed System Development Charges for Water, Sewer, Stormwater Utility Systems, Public Discussion Document*, January 14, 1998, Revised March 9, 1998.
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- Hydraulic Handbook*, Sixteenth Edition, Fairbanks Morse Pump Corporation, 1988.
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- Oregon Administrative Rules, Chapter 333: Public Water Systems*, Department of Human Services, Oregon Health Division, October 15, 2002.

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APPENDIX C

COST ESTIMATES FOR FACILITIES AND PIPING IMPROVEMENTS

Appendix C contains cost estimates for recommended improvements to pump stations, reservoirs, pressure reducing valves, and system piping. These cost estimates are based on the Engineering News Record Construction Cost Index for Seattle, Washington of 7,645 (June 9, 2003).

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Table C-1
Groundwater Well Rehab Project Cost Estimate Summary

Groundwater well rehabilitation project cost estimates are based on the following assumptions:

- No rock excavation included.
- No property acquisition costs included.
- No backup power supply.
- Construction by private contractors.
- An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
<i>Well No. 3</i>		
1.	Chemical Profiling	\$2,000
2.	Physical and/or Chemical Rehabilitation	\$15,000
	Total Construction	\$17,000
	40% Contingency, Administration & Engineering	<u>\$6,800</u>
	Total Project Cost	<u>\$23,800</u>
	SAY	<u>\$25,000</u>
<i>Well No. 10</i>		
1.	Chemical Profiling	\$2,000
2.	Physical and/or Chemical Rehabilitation	\$15,000
	Total Construction	\$17,000
	40% Contingency, Administration & Engineering	<u>\$6,800</u>
	Total Project Cost	<u>\$23,800</u>
	SAY	<u>\$25,000</u>

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-2
Groundwater Well Project Cost Estimate Summary

Groundwater well project cost estimates are based on the following assumptions:

No property acquisition costs included.

No backup power supply.

Construction by private contractors.

Estimated well production of approximately 150 gallons per minute

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Mobilization	\$20,000
2.	Well Construction	\$130,000
3.	Site Work	\$35,000
4.	Structure	\$75,000
5.	Yard Piping	\$12,000
6.	Mechanical	\$160,000
7.	Controls	\$30,000
8.	Electrical	\$130,000
9.	Landscaping	\$15,000
	Total Construction	\$607,000
	35% Contingency, Administration & Engineering	<u>\$242,800</u>
	Total Project Cost	<u>\$849,800</u>
	SAY	<u>\$850,000</u>

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¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-3
Reservoir Project Cost Estimate Summary
1.75 MG Reservoir – Prestressed Concrete

Reservoir project cost estimates are based on the following assumptions:

No rock excavation included.

No property acquisition costs included.

Construction by private contractors.

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Reservoir Structure	\$1,050,000
2.	Site Work – Including site specific specialized foundation system	\$530,000
3.	Drainage System – Including site storm drainage and reservoir overflow discharge	\$75,000
4.	Geotextiles	\$40,000
5.	Access/Parking	\$60,000
6.	Yard Piping	\$80,000
7.	Electrical – Including site electrical service \$80,000 and reservoir telemetry	
8.	Landscaping/Fencing	\$75,000
	Total Construction	\$1,990,000
	35% Contingency, Administration & Engineering	<u>\$696,500</u>
	Total Project Cost	<u>\$2,686,500</u>
	SAY	<u>\$2,700,000</u>

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-4
Reservoir Project Cost Estimate Summary
1.75 MG Reservoir – Welded Steel

Reservoir project cost estimates are based on the following assumptions:

No rock excavation included.

No property acquisition costs included.

Construction by private contractors.

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Reservoir Structure	\$612,500
2.	Site Work– Including site specific specialized foundation system	\$530,000
3.	Drainage System – Including site storm drainage and reservoir overflow discharge	\$75,000
4.	Geotextiles	\$20,000
5.	Access/Parking	\$60,000
6.	Yard Piping	\$80,000
7.	Electrical– Including site electrical service \$80,000 and reservoir telemetry	
8.	Landscaping/Fencing	\$75,000
	Total Construction	\$1,532,500
	35% Contingency, Administration & Engineering	<u>\$536,375</u>
	Total Project Cost	<u>\$2,068,875</u>

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SAY

\$2,100,000

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-5
Reservoir Project Cost Estimate Summary
Cathodic Protection Retrofit

Reservoir cathodic protection project cost estimates are based on the following assumptions:

- No rock excavation included.
- No property acquisition costs included.
- Construction by private contractors.
- An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Description</u>	<u>Estimated Project Cost¹</u>
<i>200,000 Gallon Reservoir</i>	
Cathodic Protection System for Existing 200,000 Gallon Welded Steel Reservoir	\$15,000
40% Contingency, Administration & Engineering	<u>\$6,000</u>
Total Project Cost	<u>\$21,000</u>
	SAY <u>\$25,000</u>
<i>50,000 Gallon Reservoir</i>	
Cathodic Protection System for Existing 50,000 Gallon Welded Steel Reservoir	\$12,000
40% Contingency, Administration & Engineering	<u>\$4,800</u>
Total Project Cost	<u>\$16,800</u>
	SAY <u>\$20,000</u>

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-6
Clearwell Booster Pump Station
Project Cost Estimate Summary

Pump station project cost estimates are based on the following assumptions:

No rock excavation included.

No property acquisition costs included.

No backup power supply.

Construction by private contractors.

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Mobilization	\$3,000
2.	Mechanical	\$22,000
3.	Controls	\$2,000
4.	Electrical	\$5,000
	Total Construction Cost	\$33,000
	35% Contingency, Administration & Engineering	<u>\$11,500</u>
	Total Project Cost	<u>\$44,500</u>
	SAY	<u>\$45,000</u>

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¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-7
Pruitt Booster Pump Station
Project Cost Estimate Summary

Pump station project cost estimates are based on the following assumptions:

No rock excavation included.

No property acquisition costs included.

No backup power supply.

Construction by private contractors.

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Mobilization	\$25,000
2.	Site Work	\$12,500
3.	Structure	\$35,000
4.	Yard Piping	\$14,000
5.	Mechanical	\$80,000
6.	Controls	\$8,000
7.	Electrical	\$20,000
8.	Demolition	\$10,000
9.	Landscaping/Fencing	\$7,500
	Total Construction Cost	\$212,000
	35% Contingency, Administration & Engineering	<u>\$74,200</u>
	Total Project Cost	<u>\$286,200</u>
	SAY	<u>\$300,000</u>

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-8
Distribution Piping Unit Project Cost¹
Summary

Pipe Diameter	Cost per Linear Foot
8-inch	\$92
12-inch	\$122
16-inch	\$163

Basic Assumptions:

No rock excavation

No dewatering

No property or easement acquisitions

No specialty construction included

A 35% contingency, administration and engineering allowance included

Construction by private contractors

An Engineering News Record (ENR) construction cost index CCI for Seattle, Washington of 7645 (6/9/03).

Add an additional 60% for construction with rock excavation the entire depth of trench

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¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-9
Piping Improvement Project Cost Estimate Summary

Lower Pressure Zone				
Location	Size (inches)	Length (feet)	Unit Cost (\$/lf)	Estimated Project Cost ¹
SW Upland Drive	12	850	\$122	\$103,700
SW Dogwood Drive	12	360	\$122	\$43,920
SW 5 TH Street	12	2,600	\$122	\$317,200
NE 11 TH Street	12	1,610	\$122	\$196,420
SE 11 TH Street	12	800	\$122	\$97,600
SE Locust Street	8	2,150	\$92	\$197,800
SE 9 TH Street	8	1,400	\$92	\$128,800
SE 11 th Street	8	530	\$92	\$48,760
SE Edwards Drive	12	2,140	\$122	\$261,080
Sub-Total				\$1,395,280
Intermediate Pressure Zone				
Location	Size (inches)	Length (feet)	Unit Cost (\$/lf)	Estimated Project Cost ¹
SW Upland Drive	16	1,000	\$163	\$163,000
NW Alder Drive	8	650	\$92	\$59,800
Sub-Total				\$222,800
Upper Pressure Zone				
Location	Size (inches)	Length (feet)	Unit Cost (\$/lf)	Estimated Project Cost ¹
SW Worden Hill Road	12	2,400	\$122	\$292,800
SW Viewmont Drive	8	1,330	\$92	\$122,360
SW Red Hills Loop	8	900	\$92	\$82,800
SW Walnut Avenue	8	720	\$92	\$66,240
Sub-Total				\$564,200
Total				\$2,182,280

¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table C-10
PRV Station Project Cost Estimate Summary
Intermediate – Lower Pressure Zone PRV

PRV station project cost estimates are based on the following assumptions:

No rock excavation

No property acquisition costs included.

Construction by private contractors.

An ENR construction cost index of 7645 for Seattle, Washington (6/9/03).

<u>Item No.</u>	<u>Description</u>	<u>Estimated Project Cost¹</u>
1.	Vault	\$10,000
2.	Valves	\$32,000
10.	Fittings	\$5,000
11.	Piping	\$8,000
12.	Supports/Restraint	\$5,500
13.	Excavation/Backfill/ Surface Restoration	\$6,000
14.	Testing/Calibration	\$3,200
Total Construction Cost		\$69,200
35% Contingency, Administration & Engineering		<u>\$25,585</u>
Total Project Cost		<u>\$93,420</u>
SAY		<u>\$94,000</u>

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¹ The cost estimates presented are opinions of cost based on the assumptions stated and developed from information available at the time of the estimate. Final costs for all projects will depend on actual field conditions, on actual material and labor costs, final project scope, project implementation and other variables.

Table D-1
City of Dundee
Water Rights Summary

City Source Name	Oregon Water Resources Department Source Name	Permit Rate (cfs) (gpm)	Pump Capacity (gpm)	Application Number	Permit Number	Certificate Number	Status or Recommendation	Priority Date	Point of Use Identification	Use	Township, Range & Section	1/16 Section
Spring	A Spring, Harvey Creek	0.5 (224)	0	9028	S5932	8781	Complete	6/20/23	11394	MU-A	3S.3W.27	NW NE
Spring	A Spring, Harvey Creek	0.5 (224)	0	9028	S5932	8781	Complete	6/20/23	11396	MU-P	3S.3W.27	SE NW
Spring	A Spring 1, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	3/25/29	11386	DO-P	3S.3W.27	NW NE
Spring	A Spring 1, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	"	"	IM-A	3S.3W.27	NW NE
Spring	A Spring 2, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	3/25/29	11387	DO-A	3S.3W.22	SW SE
Spring	A Spring 2, Harvey Creek	0.5 (22)	0	12629	S8978	8817	Complete	"	"	IM-A	3S.3W.22	SW SE
Mossy Spring	Mossy Spring, Harvey Creek	0.007 (3)	0	18173	S13880	14654	Complete	6/8/39	11395	DO-P	3S.3W.27	NW NE
Harvey Creek	Harvey Creek	0.25 (112)	0	22077	S17367	17145	Complete	11/7/46	11388	MU-P	3S.3W.22	SW SE
Willamette River	Willamette River	4.0 (1795)	0	58951	S44462	-	Extension application due 9/03	7/24/79	30162	MU-P	3S.2W.30	SW SW
Well 1 Watershed	Well 1 (meter)	0.22 (99)	53	G6331	G6017	-	Extension application due 9/03	4/22/74	30158	MU-P	3S.3W.27	NW NE
Well 2 Watershed	Well 3 (meter)	0.22 (99)	54	G6331	G6017	-	Extension application due 9/03	4/22/74	30160	MU-P	3S.3W.27	NW NE
Well 3 Deep Well	Supply Well (meter)	0.18 (81)	35	G1217	G1263	29157	Complete	11/28/58	29157	MU-P	3S.3W.26	SW NE
Well 4 River Well	Well 2 (meter)	0.26 (116)	0	G6331	G6017	-	Extension application due 9/03	4/22/74	30159	MU-P	3S.2W.30	SW SW
Old River Well	Well 4 (abandoned)	0.27 (121)	0	G6331	G6017	-	Extension application due 9/03	4/22/74	30161	MU-P	3S.3W.36	NE NE
Well 5 Pruitt	Well 5 (meter)	0.30 (135)	135	G10904	G10148	61759	Complete	3/24/83	11389	MU-P	3S.3W.26	NW SE
Well 6 Pruitt	Well 6 (meter)	0.30 (135)	135	G10904	G10148	61759	Complete	3/24/83	11390	MU-P	3S.3W.26	NW SE
Well 7 Watershed	Well 7 (meter)	0.33 (148)	150	G11866	G11058	-	Claim submitted 10/15/94	10/8/88	21048	MU-P	3S.3W.27	NW NE
Well 8 Watershed	Well 7A (meter)	0.334 (150)	140	G12568	G12685	-	Recommend submitting final proof survey	6/7/91	-	MU-P	3S.3W.27	NW NE
Well 9 1st Street	1st Street Well	0.334 (150)	145	G12568	G12685	-	Recommend submitting final proof survey	6/7/91	-	MU-P	3S.3W.25	SW NW
Well 10 Alder Street	Alder Street, Well (meter)	1.114 (500)	50	G12568	G12685	-	Extension application due 9/03	6/7/91	-	MU-P	3S.3W.35	NW NE
Well 11 Watershed	Well 11	0.5 (225)	-	G14066	G12736	-	Extension application due 9/03	5/19/95	-	MU-P	3S.3W.27	NW NE
Well 12 Watershed	Well 12 (Watershed)	0.5 (225)	-	G14070	G13035	-	Submit claim after construction	5/19/95	-	MU-P	3S.3W.27	NW NE

9.67 cfs 897 gpm
2.0 cfs
Well 9
Historically permitted 100 gpm
limited to 50 gpm
Current use under G-2568
Well 9
31 + 32 + 11 + 11
= 85



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APPENDIX E

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WATER RESOURCES DEPARTMENT

DIVISION 86

WATER MANAGEMENT AND CONSERVATION PLANS

690-086-0010

Purpose

(1) The Water Resources Commission has adopted a statewide policy on Conservation and Efficient Water Use (OAR 690-410-0060). The policy requires major water users and suppliers to prepare water management and conservation plans. These rules provide a process to ensure the efficient use of the state's water resources and to facilitate water supply planning consistent with water supplier and Department capabilities. The Commission shall evaluate implementation of these rules within three years and every three years thereafter.

(2) Many regions of Oregon face periodic and increasingly frequent water shortages during summer periods. Urbanization is resulting in a continually expanding need for municipal water supplies. In addition, many communities are faced with the need to reduce their impacts on the resource in response to state or federal listings of stream-flow dependant species as sensitive, threatened or endangered, water quality problem, and other flow issues. It is increasingly important to the state's economy to maintain adequate stream flows to support aquatic life, provide recreational opportunities and maintain water quality. The continued implementation of conservation measures can help restore streamflows, stabilize water supplies and provide for future needs for economic development and growth.

- (3) Pursuant to ORS 540.610(3) the use of water at a rate or duty which is less than the maximum amount allowed under a water right that is achieved through improved water management practices is not a forfeiture under certain circumstances. However, conserved water may only be used on additional acres or for other purposes not included in the original right after allocation of conserved water under ORS 537.455 to 537.500 or under other specific statutory authorizations.
- (4) Effective water management requires an evaluation of the adequacy of water supplies to meet current and future needs, identification of planned modifications in water systems, and development of new water supplies. However, the approval of a water management and conservation plan shall not substitute for compliance with Statewide Planning Goals or any other comprehensive land use planning requirement or constitute approval of applications for water rights, water reservations, water storage facilities, transfers, permit amendments, or extensions of time for permits.
- (5) Water management and conservation plans will provide information important in water resources planning and management. In addition, the plans may provide support for applications for water use permits and water right transfers, permit amendments, and requests for extensions of permits, approvals of exchanges, and reservations of water. Due regard shall be given to any relevant approved water management and conservation plans during Department consideration of these applications and requests.
- (6) Regional cooperation will improve water management and help to facilitate implementation of conservation measures. Water suppliers required under OAR 690-086-0010 to 690-086-0920 to prepare water management and conservation plans, and any other suppliers or users, may jointly submit a single plan that addresses the suppliers' conservation opportunities and water development needs.
- (7) A water management and conservation plan that has been approved under these rules may, at the option of the water supplier, be used to satisfy a condition requiring preparation of a conservation plan in an emergency use permit issued pursuant to OAR 690-019-0040 and a requirement for submittal of a curtailment plan in times of a declared or likely drought under an order issued pursuant to ORS 536.780 and OAR 690-019-0090.
- (8) Many water use permits that have been issued to water suppliers include conditions requiring preparation of water conservation, long-term water supply, and other water management plans. These rules provide standards for the preparation of such plans. Unless other more specific or stringent requirements are included in a permit, water management and conservation plans that have been approved under OAR 690-086-0915 shall be deemed to meet the permit condition.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

H : WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

Definitions

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690-086-0020

General Definitions

As used in OAR 690-086-0010 to 690-086-0920:

(1) "Affected local governments" means any local government as defined in OAR 690-005-0015, within whose jurisdiction the diversion, conveyance, or use of water is established or proposed within the context of the water management and conservation plan.

(2) "Commission" means the Water Resources Commission.

(3) "Conservation" has the meaning provided in OAR 690-400-0010.

NOTE: OAR 690-400-0010(5) defines conservation as eliminating waste or otherwise improving efficiency in the use of water while satisfying beneficial uses by modifying the technology or method for diverting, transporting, applying or recovering the water; by changing management of water use; or by implementing other measures.

(4) "Department" means the Water Resources Department.

(5) "Director" means the Director of the Water Resources Department or designee.

(6) "Waste" has the meaning provided in OAR 690-400-0010.

NOTE: OAR 690-400-0010(16) defines waste as the continued use of more water than is needed to satisfy the specific beneficial uses for which a right was granted. The need for water shall be based on using the technology and management practices that provide for the efficient use of water considering:

(a) The economic feasibility of use of the technology and management practices by the water user;

(b) The environmental impacts of making modifications;

(c) The available proven technology;

(d) The time needed to make modifications;

(e) Local variations in soil type and weather; and

(f) Relevant water management plans and subbasin conservation plans.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

...: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0030

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Definitions for Municipal Water Suppliers

As used in OAR 690-086-0100 to 690-086-0170 and 690-086-0900 to 690-086-0920:

- (1) "Authorized water uses" means all water uses known and approved by a municipal water supplier. These uses include all metered uses and any other approved uses such as fire-fighting, fire training, system operation needs, reuse, or miscellaneous uses.
- (2) "Benchmark" means the specific incremental activities that a municipal water supplier plans to have completed in implementing conservation measures.
- (3) "Extended permit" means a municipal or quasi-municipal water use permit conditioned by an extension order under OAR chapter 690, division 315 or 320 to provide that diversion of water beyond the maximum rate diverted under the permit or previous extension(s) shall only be authorized upon issuance of a final order approving a water management and conservation plan.
- (4) "Low water use landscaping" means conserving water through designing landscapes for low water use, irrigating efficiently, improving soil and planting low water use plants.
- (5) "Metering" means using water meters or other continuous recording devices to measure and to maintain a record of all water diverted and delivered.
- (6) "Municipal water supplier" means a publicly or privately owned water distribution system that delivers potable water for community needs, either to individual customers or another distribution system, or that delivers water primarily for commercial or industrial uses.
- (7) "System leak detection" means a program to monitor leakage throughout the transmission and distribution systems of a municipal water supplier.
- (8) "System leakage" means all water that is lost from a municipal water supply system, not including major breaks that are expeditiously repaired, and un-metered authorized or unauthorized uses.
- (9) "Water audit" means an analysis of a municipal water supply system that includes a thorough counting of all water into and out of the system to identify system leakage and metered or estimated use for authorized and unauthorized water uses. The audit also includes an analysis of the water

supplier's own water use to identify alternatives to increase efficiency.

"Water curtailment element" means a program to accomplish a specific reduction in the amount of water used or lost within a specific time in response to an emergency or other short-term shortage.

(11) "Water service connections" means water supply connections to the water delivery system, including the water supplier's own connections, but does not include connections for uses such as fire hydrants, fire sprinkler systems with flow alarms or detector-checks, water line blow-offs and drains, stand-by emergency interties, valve controlled drinking fountains or other similar intermittently used equipment or facilities.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0110

690-086-0040

Definitions for Agricultural Water Suppliers

used in OAR 690-086-0210 to 690-086-0920:

(1) "Agricultural water supplier" means any public or private organization, including but not limited to an irrigation district formed under ORS Chapter 545, a drainage district formed under ORS Chapter 547, a water improvement district formed under ORS Chapter 552, a water control district formed under ORS Chapter 553, a corporation organized under ORS Chapter 554, an unincorporated private association or a ditch company, the primary purpose of which is to supply water to others for agricultural uses.

(2) "Agricultural water measurement" means using measuring devices, including but not limited to weirs, flumes, submerged orifices, gaging stations, and meters, to quantify the rate of flow and the volume of water in a water delivery system.

(3) "Water allocation/curtailment element" means a program to equitably allocate, under existing priorities, a reduced water supply among the water right holders dependent on the supply in response to an emergency or other short-term shortage.

Stat. Auth.: ORS 536.027, 537.211 and 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0210

Municipal Water Management and Conservation Plans

690-086-0100

Applicability

(1) Municipal water suppliers are encouraged to prepare water management and conservation plans, but are not required to do so unless a plan is prescribed by a condition of a water use permit; a permit extension; or another order or rule of the Commission.

(2) Water management and conservation plans submitted in order to comply with a permit extension order issued after November 1, 2002, are subject to the requirements of these rules.

(3) Until November 1, 2003, water management and conservation plans submitted for purposes other than to comply with a permit extension order issued after the effective date of these rules shall be reviewed under OAR chapter 690, division 86 adopted by the Commission in 1994, unless the water supplier requests the Department to apply the standards in these rules. After November 1, 2003, all new and updated water management and conservation plans are subject to these rules.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

t.: WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0110 [Renumbered to 086-0030]

690-086-0120

General Provisions

(1) Each municipal water supplier required to submit a water management and conservation plan shall exercise diligence in implementing the approved plan and shall update and resubmit a plan consistent with the requirements of these rules as prescribed during plan approval.

(2) Benchmarks and implementation schedules for conservation measures and other water supply development activities may be modified through the subsequent approval of an updated plan.

(3) Progress reports submitted by municipal water suppliers will be used in determining whether five-year benchmarks are being met, whether the Department will authorize additional diversion of water under extended permits, and/or if schedule changes proposed in updated plans are reasonable and appropriate.

(4) Progress reports submitted by municipal water suppliers shall include:

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- (a) A list of the benchmarks established under OAR 690-086-0150 and a description of the progress of the municipal water supplier in implementing the associated conservation or other measure;
 - (b) Average monthly and daily diversions under each right held by the water supplier for the previous five years;
 - (c) A description of the results of the annual water audit required under OAR 690-086-0150(4)(a); and
 - (d) A comparison of quantities of water used in each sector as identified and described in OAR 690-086-0140(6) with the quantities of water used in each sector for the previous five years.
- (5) Upon receipt of a progress report the Department shall give public notice in the weekly notice published by the Department and provide an opportunity for written public comment. The Department shall provide copies of any comments received to the municipal water supplier.
- (6) A master plan prepared under the requirements of the Department of Human Resources Health Division or the water supply element of a public facilities plan prepared under the requirements of the Department of Land Conservation and Development which substantially meets the requirements of OAR 690-086-0125 to 690-086-0170 may be submitted to meet the requirements of these rules.

In the development of a water management and conservation plan, each municipal water supplier shall consult with the planning departments or appropriate officials of affected local governments to obtain information related to demand projections in comprehensive land use plans early in the development of the plan.

- (8) At least 30 days prior to submitting a draft plan to the Department, a municipal water supplier shall make the draft plan available for review by each affected local government along with a request for comments relating to consistency with the local government's comprehensive land use plan.
- (9) Each municipal water supplier preparing a water management and conservation plan is encouraged to develop and implement a program to involve the supplier's customers in the preparation of the plan. Recommendations include making the plan available for public inspection and conducting public meetings to provide information and gather input on the plan.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

690 086-0125

Municipal Water Supplier Plan Elements

A water management and conservation plan submitted by a municipal water supplier shall include:

A municipal water supplier description as described under OAR 690-086-0140;

(2) A municipal water conservation element as described under OAR 690-086-0150;

(3) A municipal water curtailment element as described under OAR 690-086-0160;

(4) A municipal water supply element as described under OAR 690-086-0170;

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(5) A list of the affected local governments to whom the draft plan was made available pursuant to OAR 690-086-0120(6) and a copy of any comments on the plan provided by the local governments;

(6) A proposed date for submittal of an updated plan within no more than 10 years based on the proposed schedule for implementation of conservation measures, any relevant schedules for other community planning activities, and the rate of growth or other changes expected by the water supplier; or an explanation of why submittal of an updated plan is unnecessary and should not be required by the Department; and

(7) If the municipal water supplier is requesting additional time to implement metering as required under OAR 690-086-0150(4)(b) or a benchmark established in a previously approved plan, documentation showing additional time is necessary to avoid unreasonable and excessive costs.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0130

Criteria for Approval of a Plan Submitted by a Municipal Water Supplier

In order to approve a plan by a municipal water supplier under OAR 690-086-0915, the Department must find that:

(1) The plan includes each of the required elements under OAR 690-086-0125;

(2) The projections of future water need in the water management and conservation plan are reasonable and consistent with available land use plans and the municipal water supplier has demonstrated a need for the quantity of water to be diverted during the next 20 years under each permit held by the supplier;

(3) For each of the water conservation measures required under OAR 690-086-0150(4) and, as

applicable, OAR 690-086-0150(5), the plan includes a reasonable and appropriate schedule with five year benchmarks for implementation of conservation activities;

(r) If applicable, for each of the water conservation measures required under OAR 690-086-0150(6), the plan includes:

(a) A reasonable and appropriate schedule with five year benchmarks for implementation of conservation activities; or

(b) Documentation to demonstrate that implementation of the measure is neither feasible nor appropriate to ensure efficient use of water and the prevention of waste and the supplier has used a suitable methodology in evaluating the measure;

(5) The identification of resource issues under OAR 690-086-0140(5)(i) is accurate and complete;

(6) The water curtailment element required under OAR 690-086-0160 satisfactorily promotes water curtailment practices and the coordination of usage regulation, taking into account state water law and local conditions, or is substantially the same as a curtailment plan prepared pursuant to ORS 536.780 and OAR 690-019-0090 and approved by the Department within the previous five years;

(c) If during the next 20 years the maximum rate of water diverted under an extended permit will be greater than the maximum rate authorized for diversion under the extension or previously approved water management and conservation plan;

(a) The plan includes a schedule for development of any conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources, unless the supplier has provided sufficient justification for the factors used in selecting other sources for development or the supplier serves a population of less than 1,000;

(b) Increased use from the source is the most feasible and appropriate water supply alternative available to the supplier; and

(c) If mitigation is legally required to address limitations or restrictions on the development of permits for which resource issues are identified under OAR 690-086-0140(5)(i), the plan contains documentation that the supplier is complying with the mitigation requirements. The Department may consult with federal and state agencies in making this determination; and

(8) After January 1, 2042, for review of water management and conservation plans that propose to increase the maximum rate of water diverted under an extended permit that the additional diversion of water will not impair or be detrimental to the public interest.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 4 2002, f. & cert. ef. 11-1-02

90-086-0140

Municipal Water Supplier Description

The water supplier description element shall include at least the following information:

- (1) A description of the supplier's source(s) of water; including diversion, storage and regulation facilities; exchange agreements; intergovernmental cooperation agreements; and water supply or delivery contracts;
- (2) A delineation of the current service areas and an estimate of the population served and a description of the methodology(ies) used to make the estimate;
- (3) An assessment of the adequacy and reliability of the existing water supply considering potential limitations on continued or expanded use under existing water rights resulting from existing and potential future restrictions on the community's water supply;

A quantification of the water delivered by the water supplier that identifies current and available historic average annual water use, peak seasonal use, and average and peak day use;

(5) A tabular list of water rights held by the municipal water supplier that includes the following information:

- (a) Application, permit, transfer, and certificate numbers (as applicable);
- (b) Priority date(s);
- (c) Source(s) of water;
- (d) Type(s) of beneficial uses specified in the right;
- (e) Maximum instantaneous and annual quantity of water allowed under each right;
- (f) Maximum instantaneous and annual quantity of water diverted under each right to date;
- (g) Average monthly and daily diversions under each right for the previous year, and if available for the previous five years;

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(h) Currently authorized date for completion of development under each right; and

(f) Identification of any streamflow-dependent species listed by a state or federal agency as sensitive, threatened or endangered that are present in the source, any listing of the source as water quality limited and the water quality parameters for which the source was listed, and any designation of the source as being in a critical ground water area.

(6) A description of customers served including other water suppliers and the estimated numbers; general water use characteristics of residences, commercial and industrial facilities, and any other uses; and a comparison of the quantities of water used in each sector with the quantities reported in the water supplier's previously submitted water management and conservation plan and progress reports;

(7) Identification and description of interconnections with other municipal supply systems;

(8) A schematic of the system that shows the sources of water, storage facilities, treatment facilities, major transmission and distribution lines, pump stations, interconnections with other municipal supply systems, and the existing and planned future service area; and

(9) A quantification and description of system leakage that includes any available information regarding the locations of significant losses.

Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0150

Municipal Water Conservation Element

The water conservation element shall include at least the following:

(1) A progress report on the conservation measures scheduled for implementation in a water management and conservation plan previously approved by the Department, if any;

(2) A description of the water supplier's water use measurement and reporting program and a statement that the program complies with the measurement standards in OAR chapter 690, division 85, that a time extension or waiver has been granted, or that the standards are not applicable;

(3) A description of other conservation measures, if any, currently implemented by the water supplier, including any measures required under water supply contracts;

- (4) A description of the specific activities, along with a schedule that establishes five-year benchmarks, for implementation of each of the following conservation measures that are required of all municipal water suppliers:
- (a) An annual water audit that includes a systematic and documented methodology for estimating any un-metered authorized and unauthorized uses;
 - (b) If the system is not fully metered, a program to install meters on all un-metered water service connections. The program shall start immediately after the plan is approved and shall identify the number of meters to be installed each year with full metering completed within five years of approval of the water management and conservation plan;
 - (c) A meter testing and maintenance program;
 - (d) A rate structure under which customers' bills are based, at least in part, on the quantity of water metered at the service connections;
 - (e) If the annual water audit indicates that system leakage exceeds 10 percent, a regularly scheduled and systematic program to detect leaks in the transmission and distribution system using methods and technology appropriate to the size and capabilities of the municipal water supplier; and
 - (f) A public education program to encourage efficient water use and the use of low water use landscaping that includes regular communication of the supplier's water conservation activities and schedule to customers;
- (5) If the municipal water supplier proposes to expand or initiate diversion of water under an extended permit for which resource issues have been identified under OAR 690-086-0140(5)(i), a description of the specific activities, along with a schedule that establishes five-year benchmarks, for implementation of a system-wide leak repair or line replacement program to reduce system leakage to no more than 15 percent or sufficient information to demonstrate that system leakage currently is no more than 15 percent.
- (6) If the municipal water supplier serves a population greater than 1,000 and proposes to expand or initiate diversion of water under an extended permit for which resource issues have been identified under OAR 690-086-0140(5)(i), or if the municipal water supplier serves a population greater than 7,500, a description of the specific activities, along with a schedule that establishes five-year benchmarks, for implementation of each of the following measures; or documentation showing that implementation of the measures is neither feasible nor appropriate for ensuring the efficient use of water and the prevention of waste:
- (a) system-wide leak repair program or line replacement to reduce system leakage to 15 percent, and
 - (b) reduction of system leakage to 15 percent is found to be feasible and appropriate, to reduce system leakage to 10 percent;

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- (b) Technical and financial assistance programs to encourage and aid residential, commercial and industrial customers in implementation of conservation measures;
- (c) Supplier financed retrofitting or replacement of existing inefficient water using fixtures, including distribution of residential conservation kits and rebates for customer investments in water conservation;
- (d) Adoption of rate structures, billing schedules, and other associated programs that support and encourage water conservation;
- (e) Water reuse, recycling, and non-potable water opportunities; and
- (f) Any other conservation measures identified by the water supplier that would improve water use efficiency.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0140(2)

690-086-0160

Municipal Water Curtailment Element

The water curtailment element shall include at least the following:

- (1) A description of the type, frequency and magnitude of supply deficiencies within the past 10 years and current capacity limitation. The description shall include an assessment of the ability of the water supplier to maintain delivery during long-term drought or other source shortages caused by a natural disaster, source contamination, legal restrictions on water use, or other circumstances;
- (2) A list of three or more stages of alert for potential shortage or water service difficulties. The stages shall range from a potential or mild alert, increasing through a serious situation to a critical emergency;
- (3) A description of pre-determined levels of severity of shortage or water service difficulties that will trigger the curtailment actions under each stage of alert to provide the greatest assurance of maintaining potable supplies for human consumption; and
- (4) A list of specific standby water use curtailment actions for each stage of alert ranging from notice to the public of a potential alert, increasing through limiting nonessential water use, to rationing and/or loss of service at the critical alert stage.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-0140(3)

690-086-0170

Municipal Water Supply Element

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The water supply element shall include at least the following:

- (1) A delineation of the current and future service areas consistent with state land use law that includes available data on population projections and anticipated development consistent with relevant acknowledged comprehensive land use plans and urban service agreements or other relevant growth projections;
- (2) An estimated schedule that identifies when the water supplier expects to fully exercise each of the water rights and water use permits currently held by the supplier;
- (3) Based on the information provided in section (1) of this rule, an estimate of the water supplier's water needs and projections for 10 and 20 years, and at the option of the municipal water supplier, longer periods;
- (4) A comparison of the projected water needs and the sources of water currently available to the municipal water supplier and to any other suppliers to be served considering the reliability of existing sources;
- (5) If any expansion or initial diversion of water allocated under existing permits is necessary to meet the needs shown in section (3) of this rule, an analysis of alternative sources of water that considers availability, reliability, feasibility and likely environmental impacts. The analysis shall consider the extent to which the projected water needs can be satisfied through:
 - (a) Implementation of conservation measures identified under OAR 690-086-0150;
 - (b) Interconnection with other municipal supply systems and cooperative regional water management; and
 - (c) Any other conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources.
- (6) If any expansion or initial diversion of water allocated under existing permits is necessary to meet

the needs shown in section (3) of this rule, a quantification of the maximum rate and monthly volume of water to be diverted under each of the permits;

(1) For any expansion or initial diversion of water under existing permits, a description of mitigation actions the water supplier is taking to comply with legal requirements including but not limited to the Endangered Species Act, Clean Water Act, Safe Drinking Water Act; and

(8) If acquisition of new water rights will be necessary within the next 20 years to meet the needs shown in section (3) of this rule, an analysis of alternative sources of the additional water that considers availability, reliability, feasibility and likely environmental impacts and a schedule for development of the new sources of water. The analysis shall consider the extent to which the need for new water rights can be eliminated through:

(a) Implementation of conservation measures identified under OAR 690-086-0150;

(b) Interconnection with other municipal supply systems and cooperative regional water management; and

(c) Any other conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources.

Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0140(4)

Agricultural Water Supplier Water Management and Conservation Plans

690-086-0210 [Renumbered to 690-086-0040]

690-086-0220

General Provisions

(1) Certain agricultural water suppliers must have approved conservation plans to transfer water rights within the boundaries of the districts to other land within the districts (ORS 540.572 to 540.578). These rules provide the standards for those conservation plans.

Each agricultural water supplier required to submit a water management and conservation plan shall exercise diligence in implementing the approved plan and shall update and resubmit a plan consistent with the requirements of OAR 690, division 86 as prescribed during plan approval.

- (3) Any agricultural water supplier participating in the water transfer provisions in ORS 540.572 to 0.578 and OAR 690-021-0070 to 690-021-0700 shall submit an annual report describing progress-to-date in implementing a water management and conservation plan.
- (4) Water management and conservation plans submitted by agricultural water suppliers shall meet the requirements listed in OAR 690-086-0225 to 690-086-0270.
- (5) A water conservation plan prepared in accordance with criteria of the Bureau of Reclamation and substantially meeting the requirements of OAR 690-086-0225 to 690-086-0270 may be submitted to meet the requirements of these rules.
- (6) At least 30 days prior to submitting a draft plan to the Department, an agricultural water supplier shall make the draft plan available for review by each affected local government.
- (7) Each agricultural water supplier preparing a water management and conservation plan is encouraged to develop and implement a program to involve the supplier's patrons in the preparation of the plan. Recommendations include making the plan available for public inspection and conducting public meetings to provide information and gather input on the plan.

at. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

ats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0225

Agricultural Water Supplier Plan Elements

A water management and conservation plan submitted by an agricultural water supplier shall include:

- (1) An agricultural water supplier description as described under OAR 690-086-0240;
- (2) An agricultural water conservation element as described under OAR 690-086-0250;
- (3) An agricultural water allocation/curtailment element as described under OAR 690-086-0260;
- (4) An agricultural water supply element as required under OAR 690-086-0270;

A list of the affected local governments to whom the draft plan was made available pursuant to OAR 690-086-0220(6) and a copy of any comments on the plan provided by the local governments;

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- (6) A proposed date for submittal of an updated plan based on the proposed schedule for implementation of conservation measures, any relevant schedules for other community planning activities, and the rate of growth of or other changes expected by the water supplier; or an explanation of why submittal of an updated plan is unnecessary and should not be required by the Department.

Stat. Auth.: ORS 536.027, 537.211 and 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0240

Agricultural Water System Description

The description of the water system shall include at least the following information:

- (1) General location of water right acreage, numbers of the associated water right certificates and permits and a description of relevant conditions of the water rights including the seasons of use and the uses of any other permitted withdrawals by the supplier;
- (2) Source(s) of water; storage and regulation facilities; and a summary of any transfer, rotation, change or intergovernmental cooperation agreements;
- (3) A schematic of the system showing storage and distribution facilities, drainage systems, measurement stations, generalized district boundaries, points of diversion and locations of major operational spills;
- (4) Current water use, including peak and average annual diversions and, when available, water reuse and return flows;
- (5) A summary of major classifications of user accounts showing water right acreages, the number of accounts of each classification, and the beneficial uses for which water is provided (irrigation, frost protection, temperature control, agricultural use, livestock, domestic, etc.);
- (6) Types of on-farm irrigation systems common within the supplier's accounts;
- (7) A general characterization of crops commonly grown and the estimated average and peak consumptive use of the crops; and

A description of the operation and maintenance program.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

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Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02

o90-086-0250

Agricultural Water Conservation Element

The water conservation element shall include at least the following:

- (1) A progress report on the conservation measures scheduled for implementation in the water management and conservation plan previously approved by the Department, if any;
- (2) A description of the water supplier's agricultural water measurement program and a statement that the program complies with the measurement and reporting standards in OAR chapter 690, division 85, that a time extension or waiver has been granted, or that the standards are not applicable;
- (3) A description of other conservation measures currently implemented by the water supplier;
- (4) Short- and long-term goals of the water supplier to improve water management;
An evaluation of the opportunities for improving water use efficiency which includes:
 - (a) A description of losses of water from canals, pipelines, and laterals, including any operational spills;
 - (b) An assessment of the extent to which water deliveries are insufficient to meet crop needs;
 - (c) A list of alternative conservation measures to reduce the losses of water identified in subsection (a) of this section and address any insufficiencies of water deliveries identified in subsection (b) of this section; and
 - (d) An assessment of existing and future alternatives to finance conservation measures including an analysis of the possibility of applying for the allocation of conserved water (OAR 690-018-0010 to 690-018-0090).
- (6) For each of the following conservation measures not currently being implemented, and evaluation of whether implementation of the measure is feasible and appropriate for ensuring the efficient use of water and the prevention of waste:

Promotion of energy audits offered through local electric utilities for district water users;

- (b) Conversion to metered, pressurized deliveries to all parcels of one acre or less;

- (c) Piping or lining earthen canals;
 - (d) Modifying distribution facilities and district policies to increase the flexibility of water deliveries;
 - (e) Provision of on-farm irrigation scheduling assistance;
 - (f) Construction of re-regulating reservoirs;
 - (g) Adoption of rate structures that support and encourage water conservation;
 - (h) Each of the conservation measures listed in OAR 690-086-0250(5)(c); and
 - (i) Any other conservation measures identified by the water supplier that would improve water use efficiency.
- (7) A description and estimated schedule for implementation of each of the following conservation measures:
- (a) An information and education program aimed at improving the efficiency of use of water delivered. The program should address all types of uses served and include voluntary water use audits; and
 - (b) Any other conservation measures identified as feasible and appropriate under section (6) of this rule.
- (8) A program to monitor and evaluate the effectiveness of the conservation measures which are implemented.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0240(2)

690-086-0260

Agricultural Water Allocation/Curtailment Element

The water allocation/curtailment element shall include at least the following:

- (a) A description of the frequency and magnitude of past supply deficiencies and current capacity limitation. The description shall include an assessment of the ability of the water supplier to maintain delivery during drought or other source shortages.

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(2) A description of the water supply situation(s) that cause the water allocation/curtailment element to be implemented, including identification of the supply situations which trigger warnings to users or public notice of impending shortage;

(3) A description of the procedure used to allocate water during water shortages.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0240(3)

690-086-0270

Agricultural Water Supply Element

The long-range water supply element shall include at least the following:

(1) An estimate of the water supplier's long-range water demand projections for 20 years;

(2) A comparison of the projected water needs and the size and reliability of water rights permits or other current water supply contracts held by the water supplier;

(3) A list of potential sources of water, including conservation and reuse, to supply the long-range needs;

(4) A comparison among the potential sources of additional water considering costs, availability, reliability, and likely environmental impacts;

(5) An evaluation of the effects of the following factors on long-range water needs:

(a) Regional options for meeting future water needs;

(b) Urbanization and other land-use trends;

(c) Provisions in affected local governments' comprehensive plans relating to agricultural lands, urbanization, water resources, water supply, public facilities and services, and any other pertinent plan element or ordinance relating to uses or lands served, or proposed to be served, under the long-term water supply plan.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-

086-0240(4)

Water Management and Conservation Plan Review and Enforcement

690-086-0900

Water Management and Conservation Plan Review, Approval and Enforcement

- (1) The rules in OAR 690-086-0900 to 690-086-0920 set out the process and criteria for the Department's review, approval and enforcement of the water management and conservation plans submitted by agricultural and municipal water suppliers. The rules apply to the submittal and review of draft plans, proposed final plans, and subsequent updates.
- (2) During the plan review and approval process, the Department may allow additional time for a municipal water supplier to implement water metering under OAR 690-086-0150(4)(b) or a benchmark established in a previously approved plan if the water supplier shows that additional time is necessary to avoid unreasonable and excessive costs.
- (3) Notwithstanding any of the requirements of these rules, except OAR 690-086-0150(2) and 690-086-0150(2), the Department may approve a water management and conservation plan if the plan is generally consistent with the applicable criteria and includes a schedule for completion within five years of any additional work necessary to satisfy the requirements.
- (4) Any plan approval that contains a requirement that a municipal water supplier complete additional work under section (3) of this rule shall preclude additional diversion of water under an extended permit beyond the need quantified for the next two years.

Stat. Auth.: ORS 536.025 & ORS 536.027

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 4 2002, f. & cert. ef. 11-1-02

690-086-0905

Notice of Submittal of a Draft Plan or Updated Plan

- (1) The Department shall notify affected local governments, affected Indian tribes, and all persons on the Department's weekly mailing list that a draft water management and conservation plan prepared under the requirements of OAR 690-086-0125 or 690-086-0225 has been submitted to the Department and is available for review.
- (2) Any person may review and submit written comments on the draft plan within 30 days of the

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notification in section (1) of this rule. Written comments submitted under this subsection must cite specific provisions of concern in the draft plan, describe how each of the provisions cited do or do not satisfy the requirements of OAR chapter 690, division 086, suggest any modification in each provision that would be necessary to satisfy the relevant requirement, and include information to support any suggested modifications.

Stat. Auth.:ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0910(1) & (2)

690-086-0910

Preliminary Review of Draft Plans

(1) The Department shall undertake a preliminary review of the draft plan and the comments received pursuant to OAR 690-086-0905 to determine whether the plan includes the required elements of OAR 690-086-0120 to 690-086-0170 or 690-086-0220 to 690-086-0270.

(2) For a plan submitted by a municipal water supplier, the Department shall review the plan to determine if the information and analyses in the plan are sufficient for the Department to make the determination required under OAR 690-086-0130.

(3) For a plan submitted by an agricultural water supplier the Department shall review the plan to determine whether:

(a) The plan includes the information required in OAR 690-086-0240;

(b) The water supplier has complied with the requirements of OAR 690-086-0250 and has included a description of the actions to be taken in the implementation of water conservation measures that are feasible and appropriate for ensuring the efficient use of water and the prevention of waste; considering:

(A) The economic feasibility of the measures for the water supplier;

(B) Any likely adverse environmental impacts of implementation of the measures;

(C) Whether the measures are available and proven;

The time needed to implement the measures;

(E) The effects of local variations in soil type and weather on the potential for successful

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- (a) A quantification of the maximum amount of water to be diverted during the next 20 years under each extended permit, or for a longer period as specified for an extended reservoir permit;
 - (b) The date on which an updated plan shall be submitted to the Department. A municipal water supplier may submit an updated plan at any time prior to the date specified if necessary to accommodate unanticipated events, but the Department shall not require submittal of an updated plan earlier than five years after issuance of the order approving the plan; and
 - (c) A schedule for submittal of five-year progress reports on implementation of the water conservation and supply measures described in the plan.
- (5) For a water management and conservation plan submitted by an agricultural water supplier, if the Department determines that the proposed final plan satisfies the relevant requirements or if the water supplier satisfactorily corrects any identified discrepancies, the Department shall issue a final order approving the plan and notify the water supplier and any person who submitted comments pursuant to OAR 690-086-0905 of the approval. The Department shall specify in the order approving the plan if an updated plan shall be required and, if so, the date on which the updated plan shall be submitted to the Department. The Department shall not require submittal of an updated plan earlier than five years after issuance of the order approving the plan.
- (6) The Department shall issue a final order denying approval of the plan and notify the water supplier and any person who submitted comments pursuant to OAR 690-086-0905 of the issuance of the order if:
- (a) The Department determines that the proposed final plan does not contain the plan elements required under OAR 690-086-0125 or 690-086-0225;
 - (b) For municipal water suppliers, the plan does not meet the criteria under OAR 690-086-0130;
 - (c) The municipal water supplier has failed to adequately justify a request for additional time to implement water metering under OAR 690-086-0150(4)(b) or a benchmark established in a previously approved plan; or
 - (d) The work plan submitted under OAR 690-086-0900(3) is insufficient for completing the additional work necessary to satisfy the requirements of these rules.
- (7) The Department may deny approval of a water management and conservation plan if the water supplier fails to submit a final plan to the Department within 120 days after receipt of the Department's preliminary review.
- (8) If the Department issues a final order denying approval of the plan, the water supplier may request that the Department reconsider the order and the Director appoint a five-member review board to review

the plan. The board shall include at least two individuals from the basin in which the supplier is located who are engaged in similar uses of water, the local watermaster, and other individuals knowledgeable about water use practices and water conservation. After reviewing the plan and evaluating any additional information presented by the water supplier and the Department, the board may recommend that the Department:

- (a) Reconsider the decision not to approve the plan;
- (b) Reconsider the decision not to approve the plan contingent on the water supplier agreeing to specified modifications; or
- (c) Reaffirm the original decision not to approve the plan.

(9) The Department shall notify the water supplier, the members of the review board, and any person who submitted comments pursuant to OAR 690-086-0905 of any action taken based on the board's recommendation.

(10) The water supplier or a person who has submitted comments pursuant to OAR 690-086-0905 may, within 30 days of a notification pursuant to OAR 690-086-0910(5)(b) or section (4), (5), (6), or (9) of this rule, appeal a decision by the Department to approve or to not approve a plan to the Commission. The Commission may deny the appeal or may accept the appeal and remand the plan to the Department to seek resolution of the issues identified in the appeal and, if the issues are not resolved, to initiate a contested case proceeding pursuant to ORS 183.413 and OAR chapter 690, divisions 1 and 2.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1-1994, f. & cert. ef. 9-21-94; WRD 4 2002, f. & cert. ef. 11-1-02, Renumbered from 690-086-0910(7)

690-086-0920

Enforcement

If the Director determines that a water supplier has failed to submit a water management and conservation plan as required under OAR 690-086-0010 to 690-086-0270 or has failed to satisfactorily implement an approved water management and conservation plan, the Director may proceed with one or more of the following actions:

- (1) Provide an additional, specified amount of time for remedy;
- (2) Initiate an evaluation of the supplier's water management practices and facilities to determine if the use of water is wasteful;

- (3) Initiate regulation of water use under OAR 690-250-0050 to eliminate waste;
- (4) Rescind a previous approval of a water management and conservation plan; and
- (5) If the submittal of the water management and conservation plan is required under a condition of a permit or an extension approved under OAR chapter 690, division 315 or 320, assess a civil penalty under OAR 690-260-0005 to 690-260-0110 or cancel the permit.

Stat. Auth.: ORS 536.027, ORS 537.211 & ORS 540.572

Stats. Implemented: ORS 537.230, ORS 537.630 & ORS 539.010

Hist.: WRD 11-1994, f. & cert. ef. 9-21-94; WRD 11-1994, f. & cert. ef. 9-21-94

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implementation of the measures; and

) Whether the measures are consistent with other relevant water management plans and subbasin conservation plans.

(c) The water allocation/curtailment element prepared under OAR 690-086-0260 satisfactorily promotes water curtailment practices and the coordination of usage regulation, taking into account state water law and local conditions, or is substantially the same as a curtailment plan prepared pursuant to ORS 536.780 and OAR 690-019-0090 and approved by the Department within the previous five years; and

(d) The water supplier has included the information required in OAR 690-086-0270, and, in the list of potential sources of water to meet projected demands, included the development of any conservation measures which are available at a cost which is lower than the cost of other identified sources or has provided sufficient justification for the factors used in selecting other sources for development.

(4) Upon completion of the preliminary review and no later than 90 days after receipt of a draft plan, the Department shall:

(a) After considering public comments, provide the Department's written comments on the plan to the water supplier and any person who submitted comments pursuant to OAR 690-086-0905; or

(d) After considering public comments if the Department determines that the draft plan includes the required plan elements under OAR 690-086-0125 or 690-086-0225, and for municipal water supply plans, that the plan meets the criteria under OAR 690-086-0130, issue a final order approving the plan pursuant to OAR 690-0086-0915(4) or (5) and notify any person who submitted comments pursuant to OAR 690-086-0905 of the issuance of the order.

(5) The Department shall include in its written comments prepared under section (4) of this rule:

(a) For each deficiency identified in the review, a citation of the relevant statute or rule;

(b) To the extent possible, identification of any constraints to implementation of the water management and conservation plan and recommendations on appropriate actions to secure any identified new sources of water;

(c) An evaluation of the extent to which a request for additional time under OAR 690-086-0900(2) satisfies the relevant requirements of the rules;

(d) A prescribed reasonable period of time of not less than 60 days, identified in consultation with the water supplier, for the water supplier to respond to the Department's review and to submit a proposed final plan; and

Application # G-12568 / Permit # G-12685

Route Slip ... Extension of Time

per Division 315 Rules... (Extensions received on July 1, 2001 or after)

♦ **WRIG...**

Money Received on: \$ 250.00 on 12-27-04

♦ **Lisa Juul...**

Extension Completeness: _____
(If **NOT** complete, send certified letter requesting add'l information.)

If Extension Appl complete and \$250 fee submitted, route to...

♦ **Jonnine Fuss...**

☒ Publish on Public Notice (initial 30-day comment): 2/1/05

Update "cdatewext.DB" Database:

☒ In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.

☒ In the "Ext Filed" field... Enter the date the Extension Application was received.

At the close of the Initial 30-day Comment Period...

♦ **Lisa Juul...**

Pull files for Ext PFO review: _____

Extension PFO completed: _____

Once Extension PFO signed by Dwight French...

♦ **Jonnine Fuss...**

Prepare Ext PFO for mailing to applicant: _____

Mail to those who commented and paid copy fee: _____

Include Ext PFO on weekly Public Notice: _____

Municipal or Quasi-Municipal

EXTENSION REVIEW CHECKLIST for PFO... per Div. 315 Rules

Application #: G - 12568 / Permit #: G - 12685

Permittee's Name: City of Dundee

Permittee's Mailing Address: PO Box 220, Dundee, OR 97115
see application

POD Location: Township see application Range see application Section see application 1/4 1/4 see application

Drainage Basin: # 2 County: Yamhill Watermaster District: #16

- ✓ 1. Has the applicant submitted the appropriate fee? Yes / No
***If "No".....STOP. (Extension of Time cannot be processed if insufficient fees submitted.)
*** (NOTE: Any missing Extension information that is needed before an Extension PFO can be completed???)
2. Has the applicant completely filled out the Extension Application form? Yes No
***If "No"..... List the shortcomings below and send a letter requesting the additional/missing information that is needed before the Extension of Time can be processed.
 - permit holder has not submitted annual state water level measurements. → GW has those on file
 - annual water use reports?
- ✓ 3. Date Permit was issued: 8-21-96 Priority Date: 6-7-91
- ✓ 4. Source: Wells #8, #9, & #10 in Chehalum Creek Basin
- ✓ 5. Use: Municipal Use
- ✓ 6. "Q": 1.78 cfs
- ✓ 7. Orig "A" Date: 8-21-97 Orig "B" Date: 10-1-98 Orig "C" Date: 10-1-99
- ✓ 8. Conditions of Permit:
 - Before use, meter installed
 - within 1 year shall submit wmcpr not rec'd as of 7-10-06
 - shall submit annual water use reports ✓ OK
 - shall submit annual water level measurements ✓ OK
- ✓ 9. Extension request received: 12-27-04 Request Number (1st, 2nd, 3rd): 1st
- ✓ 10. Last Authorized "B" Date: 10-1-98 Last Authorized "C" Date: 10-1-99
- ✓ 11. Proposed "B" Date: 10-1-2025 Proposed C Date: 10-1-2025

12. Amount Invested to date: \$870,000 Estimated Total Cost: \$550,000
(**Estimated Remaining Cost: 1.42 million)

13. The water project development made to date has been accomplished in accordance with the terms and conditions contained in the permit. Yes No ***If "No"..... What permit terms and/or conditions have not been met?
has not submitted WMCP - call out in PFO

14. Work on the water development project completed to date includes:
Prior to 8-21-96 Constructed wells 8, 9 & 10
Aug 21-1996 to Oct 1, 1999
constructed Cleanwell pump station,
upgraded chlorination facilities
installed water distribution lines - Fire Court / Falcon Crest subdivisions

15. The work remaining to be completed consists of:
2003 - Water System Master Plan
exploratory well drilling - evaluate G-W aquifer limitations
well rehabilitation
construction of a pump station
pipe improvements
complete application of water

16. Progress in perfecting the permit is being held up by:
exploratory well drilling due to production concerns
current pumping capacity lower than permitted rate

17. Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes No
72 cfs of 1.78 cfs developed
9 cfs of 1.78 cfs developed
timely work completed
investment made
meter in
water use reports made
SWL measurements
From Table D-1 2003 WSMR
well 8 @ .31 cfs
well 9 @ .32
well 10 @ .22 (.11 + .11)
.85
exception is WMCP
90 stated in Ext application
But pump capacity is .72 cfs -
Table 4-1 in Ext application 8-12-27-04
See P. 7 of supplemental extension info -
well 10 historically pumped @ 100 gpm but is currently "throttled down" to 50 gpm, ∴ beneficial use > current pumping capacity.

18. Determination of the market and the present demand for water or power to be supplied:
.9 ~~1.78~~ cfs of 1.78 cfs developed
growth rate 4%/yr
pop 2000 = 2598
est pop 2020 = 5750
saturation develop. pop est in 2023 = 6350²⁹
expect ↑ commercial development & ↑ industrial development

19. Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?
Yes... "Good Cause" can be found. → Approval of Extension Request
No ... "Good Cause" cannot be found. → Denial of Extension Request

___20. Conditions to be included in Extension PFO (if applicable)? Yes No
(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

- ☒ Max "Q" Development Limitations (Municipal/Quasi-Municipal)
☒ Div. 86 Water Management and Conservation Plan
☐ Other: _____

___21. Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- ☐ COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) 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 (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- ☐ COBU Requirement - Surface Water - post July 9, 1987
"Pursuant to ORS 537.230(3), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use."
- ☒ COBU Requirement - Ground Water - post July 9, 1987
"Pursuant to ORS 537.630(3), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use."

NOTES:

Extension "PFO" Dates

Checklist Last Revised: 1 / 31 / 2003

Mailing / Issuance Date: _____ WRD Project Manager: _____

Protest Deadline Date: _____ Date: _____

Application # G-12568 / Permit # G-12685

Permit Holder: City of Dundee; Attn: Eve Foote, City Administrator

Drainage Basin: #2 - Willamette

Watermaster Name and #16 - Bill Ferber

Place a (✓) in the box if the item is satisfied	Division 315 - Municipal/Quasi-Municipal Extension of Time - Completeness Checklist OAR 690-315-0070(3)
✓	1. [OAR 690-315-0070(3)] The appropriate extension of time fee (as specified in ORS 536.050). (\$100 - applications received by September 30, 2003 / \$250 - applications received on or after October 1, 2003) Duplicate Fees? NO paid \$250 on 12-27-04
✓	* [OAR 690-315-0070(3)(a)] The name and mailing address of the water right permit holder(s);
✓	* [OAR 690-315-0070(3)(b)] The application number and the permit number for which an extension is requested;
✓	2. [OAR 690-315-0070(3)(c)] For quasi-municipal water use permit holders, evidence of the actions taken to begin actual construction on the project, as defined in 690-315-0020(3)(d), if required under the applicable statute; <u>NOTE:</u> ORS 537.230(1) [1997 edition] only exempts surface water municipal use permits from the "A" Date requirement. If you are reviewing a <u>ground water</u> municipal use permit, they must provide evidence that the "A" Date has been met. • "Actual construction" means physical work performed towards completion of the water system, which demonstrates both the present good faith of the water right permit holder and the water right permit holder's intention to complete the project with reasonable diligence; • "Actual construction" <u>does not</u> include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. "A" date: 8-21-97 "A" Date Met? Yes Wells were constructed in 1991/1992 "B" date: 10-1-98 "C" date: 10-1-99
ok NEED see letter rec'd 4/8/05	3. [OAR 690-315-0070(3)(d)] - This is extension request # 1st Evidence of actions taken to develop the right within the original permitted time period OR, during the most recent extension period from 8-21-96 to 10-1-99 Wells constructed in 1991/1992. Prepared a Water System Master Plan for Health Division in 2003. Any additional work or planning accomplished between 8-21-96 and 10-1-99???
NEED ok see letter rec'd 4/8/05	4. [OAR 690-315-0070(3)(e)] Evidence of compliance with conditions contained in the permit <u>and</u> any previous extension(s) or the reason the condition was not satisfied; Meters installed — OK. Annual water use reports??? ok - submitted Annual March Static Water Level Measurements??? — call out OK - checked with GW 7-10-06 Submittal of a Water Management and Conservation Plan consistent with Div. 86??? not yet - call out
✓	5. [OAR 690-315-0070(3)(f)] Evidence of the maximum INSTANTANEOUS rate of diversion, if any, made to date; 0.9 cfs - max instantaneous rate to date from Wells #8, #9 and #10
✓	6. [OAR 690-315-0070(3)(g)] An estimate of the population served and a description of the methodology(ies) used to make the estimate; Total population of Dundee = 2,882.... HOWEVER, only 1,219 are served by this permit. The remaining population is served by other permits held by the City.

**Division 315 - Municipal/Quasi-Municipal
Extension of Time - Completeness Checklist
OAR 690-315-0070(3)**

Place a (✓)
in the box
if the item
is satisfied

✓	7. [OAR 690-315-0070(3)(h)] A description of financial expenditures made toward completion of the water development; OK - listed projects with dates totaling \$870,000
✓	8. [OAR 690-315-0070(3)(i)] An estimate of the cost to complete the water development; OK (together with #11) — \$550,000 necessary to complete
✓	9. [OAR 690-315-0070(3)(j)] A summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements, if any, relating to the project that have significantly delayed completion of construction or perfection of the right; Decreasing water yield from the wells & need to further explore the groundwater aquifer to meet increasing City demands for water
✓	10. [OAR 690-315-0070(3)(k)] An estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use. Extension requests for <u>greater than 50 years</u> must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder. Current Peak Water Demands - OK. See Section 1 & Table 1 of attached "Water Use & Projected Needs" form Projected Population - OK. See Table 2-4... shows population projections to 2023 Potential Growth - OK. See Section 3 Inventory of Water Rights Held - OK. See Section 4 and Attachment "A"
✓	11. [OAR 690-315-0070(3)(l)] A summary of the applicant's plan and schedule to complete construction and/or perfect the water right; OK...(together with #8) - Provides a list with dates of future projects needed to complete development.
✓	12. [OAR 690-315-0070(3)(m)] Justification for the time requested to complete the project and/or apply the water to full beneficial use;
✓	13. [OAR 690-315-0070(3)(n)] Any other information the applicant determines is relevant to evaluate the application in accordance with applicable statutes and rules;
✓	* [OAR 690-315-0070(3)(o)] Any other information required by the Department that is necessary to evaluate the application in accordance with applicable statutory requirements.
✓	* Signature(s) of the water right permit holder(s).

S:\groups\wr\extensions\Municipal\muni ext. completeness checklist\g12568 city of dundee.wpd

Name of Reviewer: _____

Date: _____

1-31-05

Attachment "A" Continued

City of Dundee, Oregon
Existing Water Rights and Permits
Ground Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Well 1	G6331	G6017	NA	YAMH 4541 Well 1 (meter)	CRB 104' Municipal	4/22/1974	0.22 (99)	53	Current pumping capacity is lower than the permitted rate
Well 2	G6331	G6017	NA	YAMH 4551 Well 3 (meter)	CRB 200' Municipal	4/22/1974	0.22 (99)	54	Current pumping capacity is lower than the permitted rate
Well 3				YAMH 4549 " 4538	CRB 471'				Production capacity appears to be declining over time
Deep Well	G1217	G1263	29157	Supply Well (meter)	Municipal	11/28/1958	0.18 (81)	35	
Well 4				YAMH 2660	Alluv. 115'				Pumping, treatment and transmission facilities need to be installed prior to use
River Well	G6331	G6017	NA	Well 2 (meter)	Municipal	4/22/1974	0.26 (116)	0	
Old River Well	G6331	G6017	61759	YAMH 2672 (403) Well 4 (abandoned)	Alluv. 313 Municipal	4/22/1974	0.27 (121)	0	Well has been abandoned
Well 7	G11866	G11058	NA	YAMH 4550 Well 7 (meter)	CRB 215' Municipal	10/31/1988	0.33 (148)	80	Current pumping capacity is lower than the permitted rate
Well 8	G12568	G12685	NA	YAMH 1656 Well 7A (meter)	CRB 304' Municipal	6/7/1991	0.334 (150)	130	
Well 9				YAMH 1659/52883	CRB 385'				
1st Street	G12568	G12685	NA	1st Street Well	Municipal	6/7/1991	0.334 (150)	145	
Well 10				YAMH 1658 Alder Street	CRB 482'				Production capacity appears to be declining over time
Alder Street	G12568	G12685	NA	Well (meter)	Municipal	6/7/1991	1.114 (500)	50	
Well 11				Proposed					Pumping, treatment and transmission facilities need to be installed prior to use
Well 11	G14066	G12736	NA	Well 11	Municipal	5/19/1995	0.5 (225)	0	
Well 12				Proposed					Pumping, treatment and transmission facilities need to be installed prior to use
Well 12	G14070	G13035	NA	Well 12 - (Watershed)	Harvey Cr Municipal	5/19/1995	0.5 (225)	0	

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**WATER RESOURCES DEPT
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Attachment "A" Continued

City of Dundee, Oregon Existing Water Rights and Permits Ground Water

→ for 2006 Extension PFO
used Table D-1
Water Rights Summary
from 2003 Water
System Master
Plan

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
Well 1	G6331	G6017	NA	Well 1 (meter)	Municipal	4/22/1974	0.22 (99)	.12 53-	Current pumping capacity is lower than the permitted rate
Well 2	G6331	G6017	NA	Well 3 (meter)	Municipal	4/22/1974	0.22 (99)	.12 54-	Current pumping capacity is lower than the permitted rate
Well 3 Deep Well	G1217	G1263	29157	Supply Well (meter)	Municipal	11/28/1958	0.18 (81)	.08 35-	Production capacity appears to be declining over time
Well 4 River Well	G6331	G6017	NA	Well 2 (meter)	Municipal	4/22/1974	0.26 (116)	0 -	Pumping, treatment and transmission facilities need to be installed prior to use
Old River Well	G6331	G6017	NA 61759	Well 4 (abandoned)	Municipal	4/22/1974	0.27 (121)	0 -	Well has been abandoned
Well 7	G11866	G11058	NA	Well 7 (meter)	Municipal	10/31/1988	0.33 (148)	.18 80 (150)	Current pumping capacity is lower than the permitted rate
Well 8	G12568	G12685	NA	Well 7A (meter)	Municipal	6/7/1991	0.334 (150)	.29 130	
Well 9 1st Street	G12568	G12685	NA	1st Street Well	Municipal	6/7/1991	0.334 (150)	.32 145	
Well 10 Alder Street	G12568	G12685	NA	Alder Street Well (meter)	Municipal	6/7/1991	1.114 (500)	.11 50	Production capacity appears to be declining over time
Well 11	G14066	G12736	NA	Well 11	Municipal	5/19/1995	0.5 (225)	0 -	Pumping, treatment and transmission facilities need to be installed prior to use
Well 12	G14070	G13035	NA	Well 12 (Watershed)	Municipal	5/19/1995	0.5 (225)	0 -	Pumping, treatment and transmission facilities need to be installed prior to use

Yamhill 6/5
Yamhill 1/5/54
52883
Yamhill 3/1/58

Well 5 ✓
Well 6 ✓ } G10904 G10148 61759
Pruit wells MU

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Well 5 .30 6.60 .3cfs 135 gpm
Well 6 .30 6.60 .3cfs 135 gpm
Total 1.82 cfs
Wtd

→ See Table D-1
of 2003 Water System
Master Plan
for more
historically at 100 gpm - cgs to
throttled down to 50 gpm water
rights
Inventory

Attachment "A"

City of Dundee, Oregon Existing Water Rights and Permits Surface Water

City Source Name	Application #	Permit #	Certificate #	OWRD Source Name	Use	Priority Date	Authorized Amount of Water cfs (gpm)	Max. Amount of Beneficial Water Use (gpm)	Use Limitations
2 Spring 5	9028	S5932	8781	A Spring, Harvey Creek	Municipal	6/20/1923	0.5 (224)	0	Held as an emergency water supply source
Spring	9028	S5932	8781	A Spring, Harvey Creek	Municipal	6/20/1923	<i>Duplicate</i> 0.5 (224)	0	Held as an emergency water supply source
2 Spring	12629	S8978	8817	A Spring 1, Harvey Creek	Municipal	3/25/1929	<i>0.5</i> 0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 1, Harvey Creek	Municipal	3/25/1929	<i>duplicate</i> 0.5 0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 2, Harvey Creek	Municipal	3/25/1929	<i>duplicate</i> 0.5 0.5 (22)	0	Held as an emergency water supply source
Spring	12629	S8978	8817	A Spring 2, Harvey Creek	Municipal	3/25/1929	<i>duplicate</i> 0.5 0.5 (22)	0	Held as an emergency water supply source
Mossy Spring	18173	S13880	14654	Mossy Spring, Harvey Creek	Municipal	6/8/1939	0.007 (3)	0	Held as an emergency water supply source
Harvey Creek	22077	S17367	17145	Harvey Creek	Municipal	11/7/1946	0.25 (112)	0	Held as an emergency water supply source
Willamette River	58951	S44462	NA	Willamette River	Municipal	7/24/1979	4.0 (1795)	0	Source not yet developed. Source for potential future surface water treatment plant

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SALEM OREGON

4.80
↓
4.8
4.86
Total rights 9.66 cfs

APR 08 2005

WATER RESOURCES DEPT
SALEM, OREGON

121 S.W. Salmon, Suite 900 ■ Portland, Oregon 97204-2919 ■ PHONE 503.225.9010 ■ FAX 503.225.9022

04-0706.401
April 8, 2005

Ms. Lisa J. Juul
Water Rights Specialist
Oregon Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Re: Pending Application for Extension of Time
Water Right Application No. G-12568, Permit No. G-12685

Dear Ms. Juul:

We have reviewed your letter of February 7, 2005 in which you requested additional information to evaluate the City's request for an extension of time for the above referenced water use permit. Our responses to your request are as follows:

Question No. 3

Your response to Question #3 of the extension of time application is not sufficient. Please provide evidence that includes dates of work accomplished and actions taken toward completion of construction and/or beneficial use of water during the original time period allowed under this permit, being from August 21, 1996 to October 1, 1999.

The following is a list of completed projects associated with the development of Permit G-12685 during the original time period allowed under the permit.

- Clearwell Pump Station construction (Completed March 1996) → prior to Aug 21, 1996
- Fir Court Subdivision 8-inch and 12-inch diameter water line construction (Completed August 1997)
- Falcon Crest Subdivision 12-inch diameter water line construction (Completed September 1999)

The Clearwell Pump Station was designed to provide the capacity for pumping water supplied by City Wells No. 1, No. 2, No. 7, No. 8 (this permit), No. 11, and No. 12 into the City's distribution system. As part of the City's on-going capital improvements plan, other water system improvement projects associated with City Wells No. 8, No. 9 and No. 10 are scheduled for construction as funding is made available.

Question No. 4

The response to Question #4 of the extension of time application does not adequately address the permit holder's compliance with all of the conditions contained in Permit #G-12685. Please describe how the City of Dundee has satisfied the following permit conditions:

- a.) "The water user... shall submit an annual report of water used to the Department by December 1 of each year."

Please find attached spreadsheets showing water use within the City's system for years 2000-2004. The City will begin submitting annual reports of water used to the Department starting on December 1 of this year.

- b.) "A water level measurement shall be made each year during the period March 1 through March 31... and shall be submitted to the Department within 90 days from the date of measurement."

The City will begin submitting annual water level measurements to the Department in March of 2006.

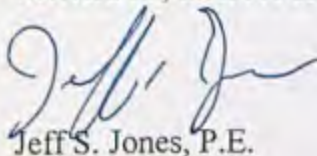
- c.) "Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86."

The City has budgeted for the completion of a Water Management and Conservation Plan. It is anticipated that the City will complete the plan in fiscal year 2005/2006.

If you have any question or desire any further information, please do not hesitate to contact me at 503-225-9010. Thank you.

Sincerely,

MURRAY, SMITH & ASSOCIATES, INC.



Jeff S. Jones, P.E.

cc: Eve Foote, City of Dundee
Alan Mustain, City of Dundee

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WATER RESOURCES DEPT
SALEM OREGON

				OREGON WATER RESOURCES DEPARTMENT				USER-ID 1089		
CITY OF DUNDEE				OCTOBER 1999 THROUGH SEPTEMBER 2000						
				ANNUAL WATER USE - MONTHLY QUANTITIES FORM						
FACILITY	SPRINGS	SPRINGS	DEEP	RIVER	PRUITT	PRUITT	SPRINGS	SPRINGS	1ST	ALDER ST
POD -ID	WELL 1#	WELL 2#	WELL 3#	WELL 4#	WELL 5#	WELL 6#	WELL 7#	WELL 8#	WELL 9#	WELL 10#
	30158	30159	30160	30161	11389	11390	21048	33131	33132	33132
Oct-99	1,108,475	1,108,475	647,600	-	1,656,000	1,656,000	1,108,475	1,108,475	-	2,368,550
Nov-99	1,314,700	1,314,700	775,300	-	-	-	1,314,700	1,314,700	-	2,730,090
Dec-99	1,241,925	1,241,925	723,600	-	-	-	1,241,925	1,241,925	-	2,459,990
Jan-00	1,271,275	1,271,275	1,006,300	-	-	-	1,271,275	1,271,275	-	2,474,260
Feb-00	988,350	988,350	932,900	-	-	-	988,350	988,350	-	2,268,840
Mar-00	1,062,000	1,062,000	1,065,600	-	-	-	1,062,000	1,062,000	-	2,465,710
Apr-00	1,234,075	1,234,075	1,064,100	-	-	-	1,234,075	1,234,075	-	2,379,950
May-00	1,443,325	1,443,325	1,000,600	-	-	-	1,443,325	1,443,325	-	2,391,500
Jun-00	1,742,475	1,742,475	921,100	-	2,080,125	2,080,125	1,742,475	1,742,475	-	2,023,500
Jul-00	1,984,800	1,984,800	677,300	-	3,646,162	3,646,162	1,984,800	1,984,800	-	2,043,100
Aug-00	2,035,300	2,035,300	764,500	-	3,218,962	3,218,962	2,035,300	2,035,300	-	2,132,410
Sep-00	1,174,850	1,174,850	683,200	-	1,570,200	1,570,200	1,174,850	1,174,850	-	1,658,100
TOTAL	16,601,550	16,601,550	10,262,100	-	12,171,449	12,171,449	16,601,550	16,601,550	-	27,396,000
FACILITY	WELL 11#	WELL 12#	WILLAMETTE	A SPR	DUNDEE			MOSSY SPR	A SPR	HARVEY CR
POD -ID	33134	38133	R 30162	11396	SUPPLY	WELL 30163	SPR 1 11386	SPR 2 11387	11395	11388
STATUS	NOT	NOT	NOT	NOT	NOT	NOT	NOT	NOT	NOT	NOT
	IN USE	IN USE	IN USE	IN USE	IN USE	IN USE	IN USE	IN USE	IN USE	IN USE
PRODUCTION IN GALLONS					CITY OF DUNDEE					
TOTAL FOR 2000 IS 128,407,198					12/12/2000					
ALAN MUSTAIN					SUPT. OF PUBLIC WORKS					

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WATER RESOURCES DEPT
SALEM, OREGON

				OREGON WATER RESOURCES DEPARTMENT					USER-ID 1089	
CITY OF DUNDEE				OCTOBER 2000 THROUGH SEPTEMBER 2001						
				ANNUAL WATER USE - MONTHLY QUANTITIES FORM						
SPRINGS		SPRINGS	DEEP	RIVER	PRUITT	PRUITT	SPRINGS	SPRINGS	1ST	ALDER ST
FACILITY POD -ID	WELL 1# 30158	WELL 2# 30159	WELL 3# 30160	WELL 4# 30161	WELL 5# 11389	WELL 6# 11390	WELL 7# 21048	WELL 8# 33131	WELL 9# 33132	WELL 10# 33132
Oct-00	1,634,825	1,634,825	813,100	-	-	-	1,634,825	1,634,825	-	2,213,720
Nov-00	1,183,400	1,183,400	839,000	-	-	-	1,183,400	1,183,400	-	2,084,680
Dec-00	140,790	192,600	895,800	-	-	-	1,601,400	2,695,360	-	2,215,900
Jan-01	198,110	204,580	989,900	-	-	-	1,558,740	3,374,970	-	2,609,840
Feb-01	150,500	137,760	980,100	-	-	-	1,564,240	2,422,410	-	2,212,800
Mar-01	180,770	164,960	911,400	-	-	-	1,738,460	2,481,560	-	2,054,830
Apr-01	224,690	203,970	888,200	-	-	-	2,034,880	3,204,590	-	2,440,520
May-01	190,860	382,310	646,200	-	2,314,237	2,314,237	2,096,685	234,663	-	1,263,570
Jun-01	373,780	382,310	751,500	-	2,138,887	2,138,887	2,096,685	234,663	-	1,907,350
Jul-01	373,780	463,200	665,200	-	2,511,337	2,511,337	1,396,840	234,663	-	1,665,910
Aug-01	368,155	463,200	675,100	-	2,710,200	2,710,200	1,396,840	414,730	-	1,890,220
Sep-01	368,155	193,723	571,700	-	2,145,525	2,145,525	1,459,673	414,730	-	1,836,870
TOTAL	5,387,815	5,606,838	8,814,100	-	11,820,186	11,820,186	19,762,668	18,530,564	-	24,396,210
FACILITY POD -ID	WELL 11# 33134	WELL 12# 38133	WILLAMETTE R 30162	A SPR 11396	DUNDEE SUPPLY WELL 30163	SPR 1 11386	SPR 2 11387	MOSSY SPR 11395	A SPR 11394	HARVEY CR 11388
STATUS	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE
PRODUCTION IN GALLONS					CITY OF DUNDEE					
106,138,567					12/12/2001					
ALAN MUSTAIN					SUP. OF PUBLIC WORKS					

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WATER RESOURCES DEPT
SALEM, OREGON

				OREGON WATER RESOURCES DEPARTMENT				USER-ID 1089		
CITY OF DUNDEE				OCTOBER 2001 THROUGH SEPTEMBER 2002						
				ANNUAL WATER USE - MONTHLY QUANTITIES FORM						
FACILITY POD-ID	SPRINGS WELL 1# 30158	SPRINGS WELL 2# 30159	DEEP WELL 3# 30160	RIVER WELL 4#	PRUITT WELL 5# 11389	PRUITT WELL 6# 11390	SPRINGS WELL 7# 21048	SPRINGS WELL 8# 33131	1ST WELL 9# 33132	ALDER ST WELL 10# 33132
Oct-01	227,905	193,723	850,600		1,709,100	1,709,100	1,459,673	1,509,120	-	1,304,310
Nov-01	227,905	193,723	667,300		-	-	1,459,673	1,509,120	-	1,784,050
Dec-01	343,120	340,980	849,700		-	-	1,477,660	3,111,500	-	2,348,460
Jan-02	435,740	736,310	1,008,500		-	-	368,155	4,288,610	-	2,158,730
Feb-02	246,190	243,532	1,007,900		-	-	918,840	1,013,862	-	2,409,680
Mar-02	246,190	243,532	1,067,600		-	-	918,640	1,013,862	-	2,198,970
Apr-02	246,190	243,532	1,011,000		-	-	918,640	1,013,862	-	2,460,220
May-02	246,190	243,532	982,800		-	-	918,640	1,013,862	1,724,900	2,084,960
Jun-02	246,190	243,532	796,200		1,901,437	1,901,437	918,640	1,013,862	5,351,400	1,519,490
Jul-02	387,620	386,210	898,900		2,519,175	2,519,175	1,629,460	3,726,560	5,724,600	2,110,130
Aug-02	362,680	377,210	782,500		2,313,937	2,313,937	1,254,150	4,739,220	5,247,700	2,174,850
Sep-02	339,170	342,930	805,600		626,962	626,962	1,282,130	3,229,400	4,925,900	1,896,190
TOTAL	3,555,090	3,788,746	10,528,800		9,070,611	9,070,611	13,524,101	27,182,840	22,874,500	24,448,040
								124	27	
FACILITY POD-ID	WELL 11# 33134	WELL 12# 38133	WILLAMETTE R 30162	A SPR 11396	DUNDEE SUPPLY WELL 30163	SPR 1 11386	SPR 2 11387	MOSSY SPR 11395	A SPR 11394	HARVEY CR 11388
STATUS	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE
PRODUCTION IN GALLONS				CITY OF DUNDEE						
124,143,139.00				12/12/2002						
ALAN MUSTAIN				SUPT. OF PUBLIC WORKS						

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WATER RESOURCES DEPT
SALEM, OREGON

CO:TY C007/HQ/HQ

0000000000

DATE 12/12/2002

				OREGON WATER RESOURCES DEPARTMENT				USER-ID 1089		
CITY OF DUNDEE				OCTOBER 2002 THROUGH SEPTEMBER 2003						
				ANNUAL WATER USE - MONTHLY QUANTITIES FORM						
FACILITY POD -ID	SPRINGS WELL 1# 30158	SPRINGS WELL 2# 30159	DEEP WELL 3# 30160	RIVER WELL 4#	PRUITT WELL 5# 11389	PRUITT WELL 6# 11390	SPRINGS WELL 7# 21048	SPRINGS WELL 8# 33131	1ST WELL 9# 33132	ALDER ST WELL 10# 33132
Oct-02	166,170	156,170	940,200				962,550	991,750	4,520,400	2,084,460
Nov-02	104,610	104,610	839,700				807,550	67,370	4,033,300	2,054,160
Dec-02	78,890	78,890	948,300				707,970	1,031,930	4,381,400	2,252,320
Jan-03	86,200	93,760	945,000				733,760	917,250	4,590,600	1,952,970
Feb-03	89,000	87,680	964,900				619,770	545,710	3,459,200	2,125,720
Mar-03	88,940	88,960	1,041,500				1,092,160	334,390	4,201,300	2,309,350
Apr-03	92,370	89,270	1,044,000				1,159,300	468,100	4,229,700	2,172,780
May-03	199,690	194,570	1,083,900				1,823,110	518,670	4,365,900	2,308,610
Jun-03	384,610	394,840	897,700		2,602,950	2,602,950	2,826,240	1,082,330	4,524,500	1,915,150
Jul-03	604,050	535,810	844,600		3,454,350	3,454,350	4,425,680	4,860	5,258,100	2,270,770
Aug-03	372,380	372,490	670,700		2,712,075	2,712,075	3,211,710	6,810	5,029,600	2,096,440
Sep-03	353,050	347,780	652,600		942,450	942,450	2,632,950	520	4,347,000	2,038,730
TOTAL	2,609,960	2,544,820	10,873,100		9,711,825	9,711,825	21,002,750	5,969,590	52,941,000	25,581,460
FACILITY POD -ID	WELL 11# 33134	WELL 12# 38133	WILLAMETTE R 30162	A SPR 11396	DUNDEE SUPPLY WELL 30163	SPR 1 11386	SPR 2 11387	MOSSY SPR 11395	A SPR 11394	HARVEY CR 11388
STATUS	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE
PRODUCTION IN GALLONS				CITY OF DUNDEE						
140,946,330				12/12/2003						
ALAN MUSTAIN				SUPT. OF PUBLIC WORKS						

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WATER RESOURCES DEPT
SALEM, OREGON

CO:TT CO07/HQ/HQ

0000000000

UNIT OF MEASURE

1.000

				OREGON WATER RESOURCES DEPARTMENT				USER-ID 1089		
CITY OF DUNDEE				OCTOBER 2003 THROUGH SEPTEMBER 2004						
				ANNUAL WATER USE - MONTHLY QUANTITIES FORM						
FACILITY POD -ID	SPRINGS WELL 1# 30158	SPRINGS WELL 2# 30159	DEEP WELL 3# 30160	RIVER WELL 4#	PRUITT WELL 5# 11389	PRUITT WELL 6# 11390	SPRINGS WELL 7# 21048	SPRINGS WELL 8# 33131	1ST WELL 9# 33132	ALDER ST WELL 10# 33132
Oct-03	197,990	196,910	762,200				2,090,810	57,040	3,117,700	2,195,740
Nov-03	97,120	98,030	799,000				1,455,810	3,798,240	3,494,700	1,985,360
Dec-03	138,005	61,850	839,000				1,099,395	1,835,650	2,406,900	2,124,110
Jan-04	138,005	61,850	963,200				1,098,395	2,442,250	1,967,100	2,126,990
Feb-04	203,760	1,575,915	951,700				765,910	1,575,915	2,657,400	592,330
Mar-04	112,650	839,705	1,029,600				895,140	839,705	3,178,700	2,144,740
Apr-04	173,980	2,238,230	911,500				982,460	48,030	3,707,300	1,917,390
May-04	258,895	1,141,735	1,055,600				1,599,035	1,141,735	4,914,900	1,976,200
Jun-04	258,895	2,347,535	933,400		1,287,121	1,287,121	1,599,035	2,347,535	3,854,100	1,560,740
Jul-04	278,430	1,849,270	822,800		3,214,987	3,214,987	3,980,930	1,849,270	4,074,000	2,024,760
Aug-04	295,420	1,320,060	681,200		2,065,938	2,065,938	4,211,860	1,320,060	3,549,800	1,816,810
Sep-04	193,450	1,199,000	739,700		105,804	105,804	2,524,650	1,199,000	3,828,700	1,943,780
TOTAL	2,346,200	12,930,090	10,468,900		6,673,850	6,673,850	22,294,430	18,454,430	40,751,100	22,408,940
FACILITY POD -ID	WELL 11# 33134	WELL 12# 38133	WILLAMETTE R 30162	A SPR 11396	DUNDEE SUPPLY WELL 30163	SPR 1 11386	SPR 2 11387	MOSSY SPR 11395	A SPR 11384	HARVEY CR 11388
STATUS	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE
PRODUCTION IN GALLONS					CITY OF DUNDEE					
TOTAL FOR 2004 143,021,790					12/22/2004					
ALAN MUSTAIN					SUPT. OF PUBLIC WORKS					

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SALEM, OREGON



Murray, Smith & Associates, Inc.
Engineers/Planners

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SALEM, OREGON

121 S.W. Salmon, Suite 900 ■ Portland, Oregon 97204-2919 ■ PHONE 503.225.9010 ■ FAX 503.225.9022

LETTER OF TRANSMITTAL

To: Oregon Water Resources Department Date: April 8, 2005
North Mall Office Building Job No. 04-0706.401
725 Summer Street NE, Suite A Re: City of Dundee - Water Rights -
Salem, OR 97301-1271 Pending Applications for Extension
Attn.: Ms. Lisa J. Juul of Time - Additional Information

WE ARE SENDING YOU:

- | | |
|--|---|
| ☒ Attached | ☐ Under separate cover |
| ☐ Shop Drawings | ☐ Prints |
| ☐ Specifications | ☐ Copy of letter |
| | ☐ Plans |
| | ☐ Change Order |
| | ☐ Samples |
| | ☐ _____ |

Copies	Date	Description
1	04-08-05	Pending Application for Extension of Time # G-12685 - Additional Information
1	04-08-05	Pending Application for Extension of Time # G-12736 - Additional Information
1	04-08-05	Pending Application for Extension of Time # G-13035 - Additional Information

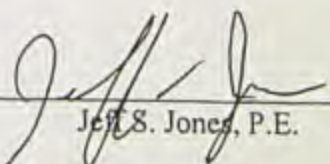
THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| ☒ For approval | ☐ Approved as submitted | ☐ Resubmit_copies for approval |
| ☐ For your use | ☐ Approved as noted | ☐ Submit_copies for distribution |
| ☒ As requested | ☐ Returned for corrections | ☐ Return_corrected prints |
| ☐ For review/comment | | ☐ For City Files |

REMARKS: Dear Ms. Juul - Please find attached the additional information, as requested by the Department, for the above referenced pending Water Right Applications for Extension of Time. Please do not hesitate to contact me with any questions or comments you may have in this regard. Thank you.

COPY TO: Eve Foote, City of Dundee

SIGNED: _____


Jeff S. Jones, P.E.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CITY OF DUNDEE
ATTN: EVE FOOTE
PO BOX 220
DUNDEE OR 97115

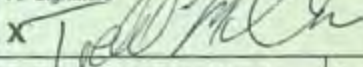
FILE#: G-12568

2. Article Number

(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-11-05

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☒ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

7004 1350 0000 7662 7648

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

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SALEM OREGON

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WATER RESOURCES DEPARTMENT
725 SUMMER STREET NE SUITE A
SALEM OR 97301-1271





Oregon

Theodore R. Kulongoski, Governor

CERTIFIED MAIL
Return Receipt Requested

File # G-12568
Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

February 7, 2005

City of Dundee
Attn: Eve Foote, City Administrator
PO Box 220
Dundee, OR 97115

REFERENCE: Pending Application for Extension of Time
Water Right Application #G-12568 (Permit #G-12685)

Dear Municipal Water Right Permit Holder:

The Department is currently evaluating your request for an extension of time on the above referenced municipal water use permit. We have determined that your extension application does not provide sufficient detail necessary to fully evaluate your request. The information and materials that need clarification are listed below and must be submitted before evaluation can continue.

NOTE: *If you make reference to other documents, reports and/or plans, you must provide copies with your responses and make specific references to the pages, tables and/or charts.*

Copies of your pending application received December 27, 2004, and your original permit are enclosed for reference.

Question #3 - OAR 690-315-0070(3)(d): Describe and supply documentation of actions taken to develop the water right permit:

- A. Your response to Question #3 of the extension of time application is not sufficient. Please provide evidence that includes dates of work accomplished and actions taken toward completion of construction and/or beneficial use of water during the original time period allowed under this permit, being from August 21, 1996 to October 1, 1999.

Information provided under this section should include both physical work and other types of water right development activities such as: water management planning; conservation planning; development of a water master plan for the Oregon Health Division; planning of a diversion system; demand forecasting; flow or water quality monitoring; source evaluation; entry into intergovernmental agreements for water delivery; property acquisition; engagement in governmental permitting or project financing; procurement of planning, design or construction services; surveying; and any physical work performed toward completion of the system and development of the right (e.g., pumps; pipes; well construction; treatment plant/facilities; transmission systems; distribution systems; and/or intake structures).

Question #4 - OAR 690-315-0070(3)(e): Provide evidence of compliance with conditions contained in the original permit, as well as any conditions added by previous extensions. If any conditions have not been satisfied, please explain the reason(s) why.

The response to Question #4 of the extension of time application does not adequately address the permit holder's compliance with all of the conditions contained in Permit #G-12685. Please describe how the City of Dundee has satisfied the following permit conditions:

- a.) "The water user... shall submit an annual report of water used to the Department by December 1 of each year."
- b.) "A water level measurement shall be made each year during the period March 1 through March 31... and shall be submitted to the Department within 90 days from the date of measurement."
- c.) "Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86."

Explain how you have complied with these conditions and indicate the dates by which you satisfied the conditions. Additionally, if you have not complied with any of these condition(s), you must state the reason(s) why.

Any supporting documentation submitted to demonstrate compliance with time-sensitive permit conditions or any conditions from prior permit extension(s) must be clearly referenced and may include, but is not limited to: well construction logs; static water level measurement reports, annual water use reports; a Water Management and

Conservation Plan consistent with OAR Chapter 690, Division 86; an alternative long-term water supply plan; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit.

Please submit this information to the Department by **Friday, April 8, 2005**. If you cannot provide the requested information by this deadline, you must notify the Department in writing, explaining the reason(s) why, and indicate a date certain by which you anticipate the requested information can be supplied.

If the Department has not received the requested information by **Friday, April 8, 2005**, and has not received written notification explaining why the deadline for submittal cannot be met, the Department **will** return your "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" as incomplete and refund all fees paid toward the extension of time request.

If you have any questions concerning your extension request or completion of the required materials, please contact me at (503) 986-0808. Thank you for your cooperation and attention to this matter.

Sincerely,



Lisa J. Juul
Water Rights Specialist

Enclosures: Copy of pending Application for Extension of Time, received December 27, 2004
Copy of Permit #G-12685

cc: Appl #G-12568 (Permit #G-12685)
Bill Ferber, Watermaster District #16

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APPLICATION TO

WATER RESOURCES DIRECTOR OF OREGON

FOR

EXTENSION OF TIME

FOR

GROUNDWATER RIGHT

APPLICATION NO. G-12568, PERMIT NO. G-12685

DECEMBER 2004

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DEC 27 2004

WATER RESOURCES DEPT
SALEM, OREGON

Submitted By:

THE CITY OF DUNDEE
PO BOX 220
620 SW 5th STREET
DUNDEE, OR 97115
(503) 538-3922

APPLICATION FOR EXTENSION OF TIME

for Quasi-Municipal and Municipal Water Use Permits

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, the City of Dundee Eve Foote, City Administrator
NAME OF ENTITY NAME OF CONTACT
620 SW Fifth Avenue Dundee, OR 97115 (503) 538-3922
ADDRESS CITY STATE ZIP PHONE

permit holder, or duly authorized agent, of Application No. G-12568, Permit No. G-12685,
[OAR 690-315-0070(3)(b)], do hereby request that the time in which to:

- ☒ complete the construction of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1998, be extended to October 1, 2025,

and/or the time in which to:

- ☒ accomplish beneficial use of water to the full extent under the terms of the permit, which time now expires on October 1, 1999, be extended to October 1, 2025.

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

Eve L. Foote
Signature Eve Foote, City Administrator

12-22-04
Date

The "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" is continued on the following pages.

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WATER RESOURCES DEPT
SALEM OREGON

PLEASE NOTE:

- * You should request the reasonable amount of time necessary to fully develop the permit and complete the project.
- * Permit extensions for Quasi-Municipal and Municipal permits are evaluated under OAR Chapter 690, Division 315. Except under limited circumstances (see OAR 690-315-0090), upon issuance of an order approving an extension of time, you will be required to submit a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 within 3 years. Diversion of water beyond the maximum rate currently diverted under the permit shall only be authorized upon approval of your WMCP. These rules may be viewed at: "www.wrd.state.or.us/law/oar1999.shtml"
- * Each item of the extension of time application includes instructions to assist you with your responses. Oregon Water Law and Administrative Rules require the Water Resources Department to consider these items when reviewing a Quasi-Municipal or Municipal water use permit extension application.
- * *A separate extension application must be submitted for each permit pursuant to OAR 690-315-0070(2).* All items must be addressed or the application may be returned. Please feel free to provide the Department with any additional information or evidence that will aid us in making our decision.
- * Once you have reviewed the extension of time application and instructions, if you have any questions, you may contact the Department at (503) 986-0800, and request assistance from the Water Rights Division, Permit Extensions personnel.

Reference Materials Needed to Complete this Application

Below is a listing of the minimum items you should review and consider as you are completing the extension of time application for your Quasi-Municipal or Municipal water use permit:

- * A copy of the subject permit. *If you do not currently have a copy of your water right permit, you may be able to download a copy from the Department's website (www.wrd.state.or.us) or you may contact the Department's Customer Service Information Group at (503)986-0801 to obtain a copy.*
- * Water Management and Conservation Plan (OAR Chapter 690, Division 86), *if applicable*, per Oregon Water Resources Department.
- * Water System Master Plan, *if applicable*, per Oregon Health Division.
- * Any supporting documentation demonstrating compliance with permit conditions, including but not limited to: well construction logs; static water level measurement reporting; annual water use reporting; a long-term alternative water supply plan; and/or a plan to monitor the effect of water use on ground water aquifers utilized under the permit.
- * An inventory of all water rights (certificates, permits and/or applications) held by the applicant illustrating how the water rights are utilized. If any water rights are not used, please explain the reason(s) why. A sample form is enclosed for your reference (See Attachment "A").

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**WATER RESOURCES DEPT
SALEM, OREGON**

[OAR 690-315-0070(3)]

1. Submit the appropriate extension of time fee (\$250), as specified under ORS 536.050.

The application fee of \$250 is attached.

[OAR 690-315-0070(3)(c)]

2. Provide evidence of the actions taken to begin actual construction on the project as required under the applicable statute.

Construction has been completed on the three wells under this water right. All three wells are currently providing water to the City of Dundee.

The yield of certain City wells has been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to the permitted rate as the City's demand increases.

[OAR 690-315-0070(3)(d)]

3. Describe and supply documentation of actions taken to develop the water right permit:

A. If this is the first extension request for this permit

The last authorized date for completion of construction was October 1, 1998 and the last authorized date for full beneficial use of water for this permit was October 1, 1999. The three wells under this water right were constructed in 1991 and are currently providing water to the City of Dundee. The City of Dundee developed a Water System Master Plan in 2003 in accordance with Oregon State Department of Human Services requirements. Full development of the water right has been investigated in the Master Plan.

The City's well yields have been continuously monitored and have been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to the permitted rate.

OR

B. If a prior extension was granted for this permit

Not Applicable.

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**WATER RESOURCES DEPT
SALEM, OREGON**

[OAR 690-315-0070(3)(e)]

4. Provide evidence of compliance with conditions contained in the original permit, as well as any conditions added by previous extensions. If any conditions have not been satisfied, please explain the reason(s) why.

A copy of the original permit (G-12685) is attached to this application for extension of time. Time-sensitive conditions contained in the original permit have been identified and are hand-numbered on the attached copy. Compliance with those time-sensitive conditions is addressed below.

- 4-1. *Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR 690, Division 86.*
- 4-2. *The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.*
- 4-3. *Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.*
- 4-4. *Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.*

Construction was completed on the three wells under this water right in 1992. Copies of the water well reports, indicating the initial static water level of each well, are included in Appendix A. The wells are metered and currently provide water to the City of Dundee. The City developed a Water System Master Plan in 2003 in accordance with Oregon State Department of Human Services requirements.

[OAR 690-315-0070(3)(f)]

5. Document evidence of the maximum instantaneous rate of water diverted to the date of this application, if any, for beneficial Quasi-Municipal or Municipal purposes.

The maximum instantaneous rate of water diverted to date for beneficial use is 0.90 cubic feet per second (Well Nos. 8, 9 and 10). The maximum rate of water use allowed under this permit is 1.78 cubic feet per second. Copies of daily well meter readings for November 2004 are included in Appendix C.

Table 4-1 shows max pumping capacity of wells 8, 9 & 10 @ .72 cfs

Well 10 has pumped at 100 gpm - throttled down to 50 gpm

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WATER RESOURCES DEPT
SALEM, OREGON

[OAR 690-315-0070(3)(g)]

6. Provide an estimate of the population served under this permit and a description of the methodology(ies) used to make this estimate.

The City of Dundee is supplied water from nine groundwater wells located in and around the City with a total approximate existing production of 2.13 cubic feet per second (cfs). The City's current population is estimated to be 2,882. Under this permit, Well Nos. 8, 9 and 10 provide a combined total of 0.90 cfs, or approximately 42.3 percent of the City's total supply source production. It is estimated that the population served under this permit is 42.3 percent of the total population, or 1,219 people.

[OAR 690-315-0070(3)(h)]

7. Provide a description of the financial expenditures made toward completion of the water development under this permit.

ITEM	COST
a. Well Construction (1992)	\$ 500,000
b. Pump Station and Chlorination Facilities Upgrades (1996)	\$ 310,000
c. September 2003, Development of City of Dundee Water System Master Plan	\$ 60,000
Total	\$ 870,000

[OAR 690-315-0070(3)(i)]

8. Provide an estimate of the cost necessary to complete the water development.

ITEM	BUDGET
a. Groundwater Aquifer Exploration (Exploratory Well Drilling)	\$ 250,000
b. Well Rehabilitation (Additional Depth)	\$ 50,000
c. Pump Station and Piping Improvements	\$ 250,000
Total	\$ 550,000

Completion of the above items is dependent on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

[OAR 690-315-0070(3)(j)]

9. List and describe all events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if any), relating to the project that have significantly delayed completion of construction or perfection of the right.

The yield of certain City wells has been observed to have decreased over time. The City is currently planning for further exploration of the groundwater aquifer to determine if future demands can be met by existing or expanded groundwater supplies. Pending the results of the additional exploration, the wells under this water right may be further developed to apply the water to full beneficial use as the City's demand increases.

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[OAR 690-315-0070(3)(k)]

- 10-A. Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights and contracts held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use.

A Municipal Water Uses and Projected Needs form is attached to this application. This attachment estimates long term water demand projections for the City of Dundee's customers, and contains a description of the methodology used. As a municipal corporation, the City of Dundee is responsible for obtaining and developing long-term water supply for its customers. The water demand projection presented in the attachment is consistent with the amounts and types of land and uses that are and will be served by the City of Dundee. The future water demand will result from a combination of increased population within the current service area, expansion of the service area, and changing types of uses. The development of this water right to full beneficial use is dependent on actual city wide water demand, growth, and on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

[OAR 690-315-0070(3)(k)]

- 10-B. Extension requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.

Not Applicable.

[OAR 690-315-0070(3)(l)]

11. Provide a summary of the future plan and schedule to complete construction and/or perfect the water right.

Completion of the schedule of improvements listed below is dependent on the results of ongoing groundwater aquifer exploration that will help to determine if future demands can be met by existing or expanded groundwater supplies.

ITEM	YEAR
a. Groundwater Aquifer Exploration and Development (Exploratory Well Drilling)	2005-2010
b. Well Rehabilitation (Additional Depth)	2010-2025
c. Pump Station and Piping Improvements	2010-2025

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SALEM, OREGON

[OAR 690-315-0070(3)(m)]

12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

See attachments submitted with this extension of time application.

[OAR 690-315-0070(3)(n)]

13. Provide any other information you wish the Department to consider while evaluating the extension of time application.

Before submitting, make sure the following items are included:

- * Completed Extension of Time application;
- * Statutory fee of \$250 (pursuant to ORS 536.050);
- * Extension of Time application Signature Page (*page 1 of application*); and
- * All supporting documentation and/or evidence referenced in the application.

Mail the above items to: Water Right Permit Extensions
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271

last revised: September 24, 2004
M:\internet\publications\wmini_ext_app\instruct_new_9-15-04.wpd

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**WATER RESOURCES DEPT
SALEM, OREGON**

ATTACHMENTS

City of Dundee Water Use and Projected Needs Description

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SALEM, OREGON

**SUPPLEMENT TO APPLICATIONS FOR EXTENSION OF TIME
FOR CITY OF DUNDEE**

WATER USES AND PROJECTED NEEDS

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**WATER RESOURCES DEPT
SALEM, OREGON**

1. CURRENT WATER DEMANDS

Water demand estimates were developed from a review of historical water consumption records and data provided by the City and regional population forecasts specifically generated to reflect the water service area.

Historical Water Use

The term "water demand" refers to all the water requirements of the system including domestic, commercial, municipal, institutional and industrial as well as unaccounted-for water. Demands are discussed in terms of gallons or gallons per unit of time such as million gallons (MG), gallons per day (GPD), million gallons per day (MGD) or gallons per minute (GPM). Demands are also related to per capita use as gallons per capita per day (GPCD). The City of Dundee maintains records of historical monthly water usage by customers. Table 1 summarizes this data for the years 1999 through 2002.

Existing Water Demands

Based on historical water usage patterns and historical population, the water service area's average daily demand has been approximately 0.4 million gallons per day (MGD) with a per capita consumption of approximately 145 gallons per capita per day (GPCD). Recent maximum daily water demand usage has been as high as approximately 0.95 MGD in 2000. The annual demands and the monthly average demand during peak season for the years 1999 through 2002 are summarized in Table 1.

**Table 1
Historical Water Use Summary**

Year	Water Service Area Population	Water Demand			
		Average Day Demand (MGD)	Peak Day Demand (MGD)	Annual Demand (MG)	*Peak Season Monthly Average Demand (MG)
1999	2,478	0.41	0.91	150.4	19.95
2000	2,598	0.43	0.95	157.5	20.34
2001	2,670	0.38	0.69	139.1	19.64
2002	2,770	0.38	0.81	137.5	20.09

*Peak Season is June through September

1.46 cfs

2. PROJECTED POPULATION AND WATER DEMAND

Existing Population

Historical population estimates were obtained through the analysis of data provided by the City of Dundee and the Center for Population Research and Census (CPRC) at Portland State University. The CPRC data represents estimates of Dundee's population inside the existing City limits as of July 1 each year. Population estimates for the beginning of each decade are based on census counts published by the U.S. Census Bureau, while annual estimates between the census counts are derived by analyzing supplemental data, including economic changes, building permits issued, and annexations. Table 2-1 presents a summary of these historical population estimates from 1970 through 2002. The average annual growth rate over this period was approximately 5.0 percent. The most current published population figures for the year 2002 place the City's population at 2,770 residents, while the 2003 population of approximately 2,882 is a projection.

The City of Dundee currently supplies water to approximately 2,882 people through approximately 1,000 residential service connections. Based on current City data, there are approximately 2.8 persons per equivalent dwelling unit (EDU). This results in approximately 1,030 existing dwelling units (DUs).

Table 2-1
Historical and Current Population Summary

Year	Population
1970	588
1980	1,223
1990	1,663
2000	2,598
2001	2,670
2002	2,770
2003	2,882

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Table 2-2 summarizes estimates of the existing population and DUs within each pressure zone.

Table 2-2
Existing Population and Equivalent Dwelling Units Summary

Pressure Zone	Area (acres)	Equivalent Dwelling Units	Population
Upper Zone	23.4	45	125
Intermediate Zone	86.5	200	560
Lower Zone	374.3	785	2,197
Total	484.2	1,030	2,882

Population Forecast

As part of on-going population forecasting efforts, population projections have been developed and summarized in Table 2-3. In 1998 the City had approximately 270 acres of net buildable land available within the UGB. Using the established planning densities of 4 lots per acre for R1 zoning, 5 lots per acre for R2 zoning, 9 lots per acre for R3 zoning, 5 lots per acre as an assumed value for the agricultural area, and an occupancy rate of 3 people per lot, the saturation development population is projected to be 6,350.

Table 2-3
Saturation Development Population Projection Summary

Zoning Designation	Net Buildable Land (acres)	Estimated Population
1998 Baseline Population	-	2,383
R-1	39.1	469
R-2	5.0	75
R-3	5.9	159
Residential/Agricultural	217.6	3,264
Saturation Development		6,350

Yamhill County's Transportation System Plan (TSP) projects a City population of approximately 9,127 in 2020 using a growth rate of 5.76%. The Oregon Office of Economic Analysis (OEA) has estimated Yamhill County's population to be 119,589 in the year 2020 with Dundee's population being only 1.7% of Yamhill County's population or approximately 3,994. Taking into consideration historical growth rates, TSP growth estimates, OEA growth estimates and the available buildable land within the existing UGB, the City has adopted a population of 5,750 in the year 2020. This correlates to a growth rate of 4.05% between the 2000 census population and the adopted 2020 population, which will be used for population projections. Table 2-4 presents a population forecast summary.

Table 2-4
Population Forecast Summary

Year	Population
2002	2,770
2003	2,882
2008	3,515
2013	4,286
2018	5,228
2020	5,750
2023 (UGB Saturation Development)	6,350

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For water system planning purposes, it is prudent to use the saturation development population forecasting methodology. This methodology provides for the most economical development of water infrastructure improvements by assuming full occupancy at saturation development conditions allowing for actual development to progress without incurring additional costs for facility duplication.

Water Demand Projections

Future water demand estimates were developed by projecting historical flows using the same relative growth as the population. As growth continues, both residential infill and zoning expansions are expected, resulting in an increased population density and an overall water demand. For the purposes of this plan, estimated average daily water usage is assumed to remain constant at approximately 145 GPCD.

Dundee's water demand patterns have varied greatly over the past few years. Historical maximum day per capita usage has been as low as 260 GPCD and as high as 360 GPCD. As conservation plays an increasing role in water usage patterns, it is anticipated that Dundee's maximum daily per capita usage can ultimately be maintained at approximately 320 GPCD, even in drought years.

Future maximum day per capita usage is estimated at approximately 320 GPCD. Estimated average and maximum day water demands are developed by multiplying the estimated per capita usage by the anticipated population for that year. To provide an estimate of peak hourly usage, a factor of 1.5 was applied to the estimated maximum day water demands. This is consistent with water demand patterns of similar communities in the region. Population projections and anticipated water demands, in five-year increments through saturation development, are summarized in Table 2-5.

**Table 2-5
Population Forecasts and
Estimated Water Demand Summary**

Year	Population	Water Demand (MGD)		
		Average Day Demand	Maximum Day Demand <i>cfs</i>	Peak Hour Demand
2003	2,882	0.42	0.92 <i>1.42</i>	1.38
2008	3,515	0.51	1.12	1.68
2013	4,286	0.62	1.37	2.06
2018	5,228	0.76	1.67	2.51
2023 (UGB Saturation Development)	6,350	0.92	2.03 <i>2.57</i>	<i>3.05</i>

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3. POTENTIAL GROWTH

Service Area

The City of Dundee Urban Growth Boundary (UGB), as defined by the City's comprehensive plan, encompasses approximately 747 acres, while the City limits include approximately 900 acres. Approximately 153 acres of land inside the City limits is outside of the UGB and is non-developable flood plain land. The City water system currently provides service to the area within the UGB as well as to several connections outside of this boundary. The services outside the UGB have historically accounted for approximately six percent of the water demand and are anticipated to continue being served at this same level by the City throughout the planning period (2023).

The City of Dundee's future water service area includes the area enclosed within the established UGB. According to Dundee's Buildable Lands Inventory and Urbanization Project report, the agricultural area within the UGB is expected to be rezoned as residential prior to the saturation development of the UGB with a population density of five people per net available acre. This assumption was incorporated in the demand estimates discussed above.

4. INVENTORY OF WATER RIGHTS HELD

Existing Water rights and Permits

The City of Dundee currently holds surface water rights on nine sources and groundwater rights on eleven sources. Attachment "A" summarizes the existing water rights and the corresponding amount of beneficial water use.

Supply Sources

The City is supplied water from nine groundwater wells located in and around the City that pump water from the Columbia River Basalt Group Formation (CRBG) aquifers. All but two of these wells are City owned. The City owns an additional well, referred to as Well No. 4 or old river well, which is no longer operational. These wells have a total combined production capacity of approximately 1.14 million gallons per day (MGD) under normal operating conditions. Water from each well is either pumped to a storage reservoir or is pumped into the water distribution system. All of the supply wells are equipped with submersible pumps and disinfection at all wells is by liquid chlorine injection. Table 4-1 presents a summary of the supply wells and a brief description of each well is presented below. Also presented is a brief discussion of the City's surface water and groundwater sources and associated water rights that are currently not being used.

1.77 cfs

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**Table 4-1
Groundwater Well Pump, Depth and Production Summary**

City Well No.	OWRD Source Name	Horse-power (hp)	Total Well Depth (feet)	Approximate Existing Production Capacity (gpm)
1	Well 1	15	103	53
2	Well 3	10	200	54
3	Supply Well	7.5	471	35
5	Well 5	7.5	160	135
6	Well 6	7.5	160	135
7	Well 7	10	215	80
8	Well 7A	10	304	130
9	First Street Well	20	385	145
10	Alder Street Well	10	482	50*
Total Supply Source Production Capacity¹				790 (1.14 MGD)

1. Total supply source production capacity is the sum of the production capacities of all operational well pumps.

* 100 See p. 7

0.72 cfs
wells
8, 9, 10

(27)

Well Nos. 1, 2, 7 and 8

The City operates four wells and a pumping facility on a parcel of land located approximately 1.25 miles west of the City limits. These are City Well Nos. 1, 2, 7 and 8, and are also collectively referred to as the Spring Wells. Extension of Time is needed for well Nos. 1, 2 and 8. Each well pumps water to a 6,000 gallon clearwell where it is chlorinated and then pumped through a 6-inch diameter pipe to the 0.2 million gallons (MG) Reservoir. The wells at this site have a combined production capacity of approximately 320 gallons per minute (gpm) and are described below:

- Well No. 1 is capable of producing approximately 53 gpm of water. The well was constructed in 1971, has an 8-inch diameter casing, a depth of approximately 103 feet, and a wellhead elevation of approximately 440 feet.
- Well No. 2 is capable of producing approximately 54 gpm of water. The well was constructed in 1973, has an 8-inch diameter casing, a depth of approximately 200 feet, and a wellhead elevation of approximately 429 feet.
- Well No. 7 is capable of producing approximately 80 gpm of water. The well was constructed in 1988, has an 8-inch diameter casing, a depth of approximately 215 feet, and a wellhead elevation of approximately 451 feet.
- Well No. 8 is capable of producing approximately 130 gpm of water. The well was constructed in 1991, has an 8-inch diameter casing, a depth of approximately 304 feet, and a wellhead elevation of approximately 460 feet.

Yamh 4561

Yamh 4551
called
Well 3 on
permit

Yamh 4550

Yamh 1656

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SALEM, OREGON**

Water Uses and Projected Needs
November 2004

Well No. 3

Well No. 3, also referred to as the deep well or supply well, is located adjacent to the City's 0.4 MG Reservoir, near the intersection of SW Upland Drive and SW Red Hills Loop. This well has a current production capacity of approximately 35 gpm, a 16-inch diameter casing, a depth of approximately 471 feet, and a wellhead elevation of approximately 400 feet. Water from Well No. 3 is chlorinated at the wellhead and pumped directly into the 0.4 MG Reservoir. The well was originally constructed in 1956 to a depth of approximately 385 feet and was increased to a depth of approximately 471 feet in 1960. This well had a production capacity of approximately 65 gpm in 1980, approximately 41 gpm in 1991, and a recorded production capacity of approximately 35 gpm in 2002. Due to the steadily declining water production rates, static water level data is being gathered on Well No. 3 to better assess the well's long term production potential.

Well Nos. 5 and 6

Well Nos. 5 and 6, also referred to as the Pruitt Wells, are located on private property near the intersection of SW 9th Street and SW Alder Street and are not owned by the City. The City has an agreement with the current property and well owners to purchase water from these wells during high water demand periods. Well No. 5 is capable of producing approximately 135 gpm of water. The well was constructed in 1977, has a 6-inch diameter casing, a depth of approximately 160 feet, and a wellhead elevation of approximately 220 feet. Well No. 6 is capable of producing approximately 135 gpm of water. The well was also constructed in 1977, has a 6-inch diameter casing, a depth of approximately 140 feet, and a wellhead elevation of approximately 220 feet. While other wells appear to have declining production yields, Well Nos. 5 and 6 appear to be producing consistent yields over time.

Well No. 9

Well No. 9, also referred to as the First Street Well, is located in the northwest section of the City near the intersection of SW First Street and Highway 99W. Extension of Time is needed for well No. 9. This well became operational in 2002 and has an 8-inch diameter casing, a depth of approximately 385 feet, and a wellhead elevation of approximately 220 feet. Water from Well No. 9 is chlorinated at the site and pumped directly into the lower pressure zone at a rate of approximately 145 gpm.

Well No. 10

Well No. 10, also referred to as the Alder Street Well, is located near the southern edge of the City limit boundary near the intersection of SW Alder Street and SW Niederberger Road. Extension of Time is needed for well No. 10. This well became operational in 1991 and has an 8-inch diameter casing, a depth of approximately 482 feet, and a wellhead elevation of approximately 180 feet. For approximately nine years following well construction it produced approximately 100 gpm. Recently static water levels in the vicinity of Well No. 10 appear to be declining along with the well's production capacity. The well discharge is currently throttled such that the well currently produces

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**WATER RESOURCES DEPT
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approximately 50 gpm. Water from Well No. 10 is chlorinated at the site and pumped into the lower pressure zone.

In-Active Groundwater Sources

The City holds water rights on three groundwater sources that are not currently connected to the City's water supply system and are not being utilized at this time. Extension of Time is needed for well Nos. 4 (River Well), 11 and 12. These wells will become incorporated into the City's water supply system to increase the overall supply source capacity over time as demand increases. The long term production rates of these wells are not currently known.

Well
2
on permit
Yam
2666

In-Active Surface Water Sources

Prior to the development of the City's current groundwater supply wells the City relied on surface water springs located west of the City. According to discussions with City staff these spring sources consist of small cast-in-place concrete catchment tubs and are maintained as a back-up supply. Additionally, the City is requesting an Extension of Time on the Willamette River Source that will be held for potential future needs.

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APPENDIX A

Copy of Original Permit/Water Right Information Query Results

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STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: ~~SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.~~; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36

TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31

TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

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Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

Application G-12568 Water Resources Department

PERMIT G-12685

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as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

- ① Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

- (1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

- (a) An average water level decline of three or more feet per year for five consecutive years; or
- (b) A total water level decline of fifteen or more feet; or
- (c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

- ② (2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.

- (3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

- ③ (a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.

- (b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.

- (c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

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(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

STANDARD CONDITIONS

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

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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

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

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

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Issued August 21, 1996

Michael Pohl

WATER RESOURCES DEPT
SALEM, OREGON

Application G-12568 Water Resources Department PERMIT G-12685
Basin 02 Volume 17 CHEHALEM CREEK & MISC. District 16
MGMT CODES 7IG, 7IR

Water Rights Information Query Results

Owner(s) Information

CITY OF DUNDEE
PO BOX 220
DUNDEE OR 97115

Application(s)

Application	Received	
G 12568	06/07/1991	Map

Permit(s)

Permit	Signature	
G 12685	08/21/1996	Map

Certificate(s)

n/a

Claim(s)

n/a

Decree(s)

n/a

Order(s)

n/a

Transfer(s)

n/a

Misc. Info

Authority	File Location
	Salem

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Document Process

n/a

Point(s) of Diversion

Location (T-R-S-QQ)	DLC/Lot	Source	Tributary to	Max Rate	Rate	Max Acre Feet	Acre Feet	Legal Description	Rema
3.0S-3.0W-27-NWNE		WELL 8	CHEHALEM CR	1.78	1.78			550 FEET SOUTH & 1860 FEET WEST FROM NE CORNER, SECTION 27	

Uses from this Point of Diversion

Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Status	Remarks
MU	P	06/07/1991	1/1	12/31				1.78	1.78			NC	

3.0S-3.0W-25-SWNW		WELL 9	CHEHALEM CR	1.78				1790 FEET SOUTH & 795 FEET EAST FROM NW CORNER, SECTION 25	
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Uses from this Point of Diversion

Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Status	Remarks
MU	P	06/07/1991	1/1	12/31				1.78	0.0 (est)			NC	

3.0S-3.0W-35-NWNE		WELL 10	CHEHALEM CR	1.78				616 FEET SOUTH & 1379 FEET WEST FROM NE CORNER, SECTION 35	
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Uses from this Point of Diversion

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Use	P/S	Priority Date	Start Date	End Date	Acres	Rate/Acre	Duty	Max Rate	Rate	Max Acre Feet	Acre Feet	Status	Remarks
MU	P	06/07/1991	1/1	12/31				1.78	0.0 (est)			NC	

Place of Use

Use	P/S	Priority Date	Location (T-R-S-QQ)	DLC/Lot	Acres	Status	Remarks
MU	P	06/07/1991	3.0S-2.0W-30-NENE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NWNE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SWNE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SENE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NENW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NWNW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SWNW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SENW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NESW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NWSW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SWSW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SESW			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NESE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-NWSE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SWSE			NC	
MU	P	06/07/1991	3.0S-2.0W-30-SESE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NENE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NWNE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SWNE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SENE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NENW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NWNW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SWNW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SENW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NESW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NWSW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SWSW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SESW			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NESE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-NWSE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SWSE			NC	
MU	P	06/07/1991	3.0S-2.0W-31-SESE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NENE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SWNE			NC	

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MU	P	06/07/1991	3.0S-3.0W-25-SENE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NENW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SENW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NESW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SESW			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NESE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-NWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-25-SESE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NENE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SENE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NENW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SENW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NESW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SESW			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NESE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-NWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-26-SESE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NENE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SENE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NENW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SENW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NESW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SESW			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NESE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-NWSE			NC	

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MU	P	06/07/1991	3.0S-3.0W-35-SWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-35-SESE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NENE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SWNE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SENE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NENW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SWNW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SENW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NESW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SWSW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SESW			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NESE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-NWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SWSE			NC	
MU	P	06/07/1991	3.0S-3.0W-36-SESE			NC	

[View Water Rights in same Family](#)

[Return to the Water Right Information search screen](#)

Phillip C. Ward, Director

Oregon Water Resources Department • 725 Summer ST NE, Suite A • Salem, OR 97301 • Phone: 503-986-0900 • Fax: 503-986-0903

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**WATER RESOURCES DEPT
SALEM, OREGON**

APPENDIX B

Water Well Reports

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WATER RESOURCES DEPT
SALEM OREGON

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

(START CARD) # 32016

(1) OWNER: City of Dundee
Address PO Box 220
City Dundee State OR Zip 97115
Well Number 8

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:

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

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 304 ft.
Explosives used ☐ ☒ Type Amount

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	75	Cement	0	75	42 sks

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	8	+2.5	75	.250	XX	☐	XX	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of sheets

(7) PERFORATIONS/SCREENS:

☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☒ Pump ☐ Raiser ☐ Air ☐ Artesian
Also see attached 24 hr test data
Yield gal/min Drawdown Drill stem at Time

70	11		1.5 hr.
185	54		3 Hr-incl. abv
240	88		4.5 Hr-incl. abv

Temperature of water 55° F 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: SEI Log #9132

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude Longitude
Township 3S N or S. Range 3W E or W. WM.
Section 27 NW 1/4 of NE 1/4
Tax Lot 700 Lot Block Subdivision
Street Address of Well (or nearest address) Fairview Dr.
Dundee, OR

(10) STATIC WATER LEVEL:

8 ft. below land surface. Date 12/17/91
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 98

From	To	Estimated Flow Rate	SWL
98	144	airtest - 65	
98	195	airtest - 90	
98	230	airtest - 120	
98	304	airtest - 300	

(12) WELL LOG:

Ground elevation ~ 450

Material	From	To	SWL
Topsoil	0	1	
Clay, brown	1	6	
Clay, grey	6	12	
Basalt, decayed w/clay, grey	12	38	
Basalt, grey-brn, soft	38	70	
Basalt, grey-brn, med	70	98	
Basalt, grey-brn w/black	98	155	
Basalt, grey w/soft, brn layers	155	185	
Basalt, brn, decayed	185	215	
Basalt, grey	215	222	
Basalt, brown	222	230	
Basalt, grey, bkn, med	230	250	
Basalt, grey&brn, bkn, med-sft	250	269	
Basalt, brown, bkn, med-sft	269	284	
Basalt, brn & gry, bkn, med-sft	284	295	
Basalt, grey, frac, med-hd	295	304	

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WATER RESOURCES DEPT
SALEM, OREGON

Date started 12/17/91 Completed 1/10/92

(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367
Date 1/31/92

(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 well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 649
Date 1/31/92

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

(START CARD) # 32017

(1) OWNER: Well Number 9
Name City of Dundee
Address P.O. Box 220
City Dundee State OR Zip 97115

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

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

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 385 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	108	Cement	0	108	73 sks
8	108	385				

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: 8	+2.5	108	.250	☒	☐	☒	☐
Liner:				☐	☐	☐	☐

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/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
75	48		1 hr.
150	142		2hr incl above
205	256		3hr incl above

Also see attached 24hr test data

Temperature of Water ~55°F 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: _____ SEI 9137

(9) LOCATION OF WELL by legal description:
County Yamhill Latitude _____ Longitude _____
Township 3S N or S. Range 3W E or W. WM. _____
Section 25 SW 1/4 of NW 1/4
Tax Lot 901 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1st Street
Dundee, OR

(10) STATIC WATER LEVEL:
1 ft. below land surface. Date 2/11/92
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 1st significant @ 55

From	To	Estimated Flow Rate	SWL
115	364	See (8)	See (10)

(12) WELL LOG: Ground elevation Approx 220

Material	From	To	SWL
Top soil	0	2	
Clay, brn, med-soft, silty	2	15	
Clay, red-brn, soft	15	55	
Sand, brn, med, cem	55	98	
Basalt, brn & grey, med	98	107	
Basalt, grey, med-hd	107	115	
Basalt, blk, med-hd, frac	115	135	
Basalt, grey, hd, frac	135	219	
Basalt, brn, bkn	219	225	
Basalt, brn & grey, frac	225	230	
Basalt, grey, frac	230	252	
Basalt, brn & grey, bkn	252	265	
Basalt, dk grey, frac	265	296	
Basalt, grey, hard	296	302	
Basalt, grey, frac	302	318	
Basalt, grey-blk, frac	318	323	
Basalt, grey, hd	323	329	
Basalt, blk, frac	329	346	
Basalt, blk, med-soft, well frac	346	361	
Basalt, blk, med, frac	361	364	
Basalt, grey, hd, some frac	364	385	

Date started 11/21/91 Completed 2/11/92

(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 well construction standards. Material used and information reported above are true to my best knowledge and belief.
Signed [Signature] WWC Number 1367
Date 2/14/92

(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 well construction standards. This report is true to the best of my knowledge and belief.
Signed [Signature] WWC Number 649
Date 2/14/92

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.745)

(START CARD) # 32018

OWNER: City of Dundee
Address P.O. Box 220
City Dundee State OR Zip 97115
Well Number 10

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

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

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 482 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	0	257	Cement/bent	0	340	446 sks
10	257	340				
8	340	482				

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
8	+2.5	340	.250	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

Liner:

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Drawdown	Drill stem at	Time
105	99		1 hr.
155	165		2hr incl above
195	224		3hr "

Also see attached 24hr test data

Temperature of Water 55°F Depth Artesian Flow Found

Was a water analysis made? ☐ Yes ☐ No

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

☐ City ☐ County ☐ Other

Depth of strata

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(9) LOCATION OF WELL by legal description:

County Yamhill Latitude Longitude
Township 3S N or S. Range 3W E or W. WM.
Section 26 SE 4 of SW 4
Tax Lot 500 Lot Block Subdivision
Street Address of Well (or nearest address) Alder Street
Dundee, OR

(10) STATIC WATER LEVEL:

41 ft. below land surface. Date 1/28/92
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 65

From	To	Estimated Flow Rate	SWL
336	381	50	NM
336	472	300	

(12) WELL LOG:

Ground elevation approx 180

Material	From	To	SWL
Top soil	0	2	
Clay, brown, soft	2	9	
Clay, grey, soft	9	65	
Sand, brn, med-fine, cem. & sandy brown clay layers	65	121	
Clay, grey, soft	121	145	
Clay, brn, sandy & cem sand lvr	145	235	
Basalt, blk, frac, med-hd	235	245	
Basalt, brn, bkn & red cinders	245	328	
sloughs		328	
Basalt, blk, hard	328	336	
Basalt, blk, hard, frac.	336	361	
Basalt, grey, med, frac	361	381	
Basalt, grey, med, frac-some brown	381	426	
Basalt, grey, hard, frac	426	450	
Basalt, brn, med, frac, ves	450	461	
Basalt, grey, med-hard, frac	461	472	
Basalt, grey, hard	472	492	

Date started 11/20/91 Completed 2/11/92

(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367
Date 2/14/92

(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 well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number
Date

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SECOND COPY - CONSTRUCTOR

THIRD COPY - CUSTOMER

WRC 10-91

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SALEM OREGON

APPENDIX C

Daily Well Meter Readings – November 2004

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WATER RESOURCES DEPT
SALEM, OREGON

Spring Area Daily Report

November 2004

Date	Int.	Time	Pump 1	Hrs	Pump 2	Hrs	Flow meter	Gallons	Gen.	Reservoir
30	AN	927	176228		20646.8		12027406	12227406	444.7	28.4
29	MX	830	176190	5.4	20641.0	7.6	11899700	174500	444.1	29.5
28	JM	747	17613.6	5.7	20633.4	6.6	11725200	165500	444.1	29.9
27	JM	838	17607.9	4.4	20626.8	4.3	11559700	116100	444.1	28.4
26	JM	920	17603.5	7.5	20622.5	6.8	11442600	193500	444.1	30.4
25	JM	830	17596.0	5.0	20615.7	3.6	11244100	117100	444.1	28.8
24	WV	833	17591.0	4.9	20612.1	5.9	11132000	145000	444.1	30.7
23	JM	907	17586.1	1.9	20606.2	7.2	10987000	120300	444.1	29.2
22	WV	830	17584.2	6.8	20594.0	6.1	10866700	174200	443.5	30.4
21	L	0945	17577.4	6.0	20592.9	5.1	10692500	149500	443.5	28.4
20	✓	0910	17571.4	3.3	20587.8	7.0	10543000	137500	443.5	30.5
19	✓	0824	17568.1	3.4	20580.8	8.6	10405500	160000	443.5	29.4
18	✓	0830	17564.7	1.6	20572.2	5.9	10245500	99600	443.5	28.1
17	WV	841	17563.1	4.6	20566.3	6.7	10145900	151400	443.5	30.9
16	CS	0840	17558.5	4.6	20559.4	4.8	9994500	126700	443.5	28.7
15	CS	0850	17553.9	4.3	20554.8	7.7	9867800	160600	442.9	28.7
14	AL	1200	17549.6	4.5	20547.1	6.3	9707200	142500	442.9	28.6
13	AL	1159	17545.1	6.0	20540.8	5.8	9567000	161200	442.9	29.1
12	CS	0820	17539.1	4.6	20535.0	4.9	9403500	128400	442.9	28.5
11	AL	1128	17534.5	5.7	20530.1	4.8	9275100	142400	442.9	30.5
10	M	850	17528.8	4.2	20525.3	6.2	9132700	139400	442.9	28.9
9	CS	0835	17524.6	6.1	20519.1	4.4	8993360	142000	442.9	30.7
8	M	850	17518.5	5.4	20514.7	7.4	8851300	171700	442.3	29.1
7	WV	720	17513.1	3.8	20507.3	4.3	8679600	173800	442.3	29.7
6	WV	842	17509.3	3.1	20498.0	5.4	8505800	112800	442.3	30.8
5	CS	920	17506.2	1.5	20492.6	7.3	8393000	118500	442.3	28.3
4	JM	910	17504.7	6.1	20485.3	5.7	8274500	143900	442.3	28.2
3	✓	0920	17499.6	8.1	20479.6	5.7	8130600	206300	442.3	28.9
2	✓	0820	17491.5	4.5	20473.9	6.6	7944300	149500	442.3	28.4
1	WV	948	17487.0	6.2	20467.3	6.4	7744800	177200	441.7	28.7
			17480.8		20460.4		7617600			

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WATER RESOURCES DEPT
SALEM, OREGON

TOTAL

Well 1

Well 2

Well 7

Well 8

4,409,800

7261240

3647340

960360

5056490

23.300
1.30

Deep Well Daily Production Report

November 2004

well 3

Date	Meter Reading	Production	Time	Int.	Chlorine	used
30	38373000	29800	941	TH	30	5
29	38343200	28500	825	TH	35	4
28	38314700	27600	753	TH	39	5
27	38287100	27700	832	TH	44	6
26	38259400	28700	909	TH	5	5
25	38230500	28800	834	TH	10	6
24	38201700	27500	530	TH	16	5
23	38173900	29200	900	TH	21	5
22	38144700	26200	825	TH	26	4
21	38115500	27900	0930	TH	30	5
20	38090600	28900	0820	TH	35	5
19	38061700	28000	0820	TH	40	5
18	38032700	28400	0825	TH	45	5
17	38003200	29100	0820	TH	0	5
16	37976200	28600	0820	TH	5	5
15	37947600	25200	0840	TH	11	4
14	37922400	30700	1155	AL	15	6
13	37892700	31300	1110	AL	21	5
12	37861400	25800	0830	TH	26	6
11	37835600	32000	1130	AL	32	6
10	37803600	28460	0845	TH	28	4
9	37775200	27700	0830	TH	42	8
8	37747500	29300	0820	TH	0	0
7	37715700	26500	714	TH	2	6
6	37691400	26000	830	TH	8	6
5	37663400	28600	916	TH	14	6
4	37634700	26400	905	TH	20	5
3	37602400	29300	0930	TH	25	6
2	37575100	27400	0805	TH	31	6
1	37551700	3	0812	TH	37	6
	37520700				43	

Total 852,300

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WATER RESOURCES DEPT
SALEM OREGON

Well 9 Daily Production Report

November 2004

Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	used
31								
30	21968000	65100	40	129	946	TH	12	4
29	21902900	62100	49	129	521	MY	16	4
28	21840000	60000	44	129	756	TH	20	4
27	21780000	60000	44	129	830	TH	24	3
26	21720000	62600	40	129	905	TH	27	4
25	21657400	63000	49	128	84	TH	31	4
24	2159214000	60600	43	128	823	MY	35	4
23	21533800	63900	40	128	857	TH	39	4
22	21465900	58300	45	128	814	MY	43	3
21	21411600	61700	40	129	0930	CS	46	4
20	21349900	62600	45	129	0830	CS	0	5
19	21287300	60500	44	128	0840	CS	5	4
18	21226800	62100	40	128	0830	CS	9	4
17	21164700	60100	40	128	828	MY	13	5
16	21104600	62100	40	127	0500	CS	18	4
15	21042500	53100	39	124	555	MY	22	3
14	20989400	59200	39	127	1150	AL	25	5
13	20930200	51100	42	126	1102	AL	30	4
12	20859100	56100	40	126	0810	CS	34	4
11	20800000	69400	42	126	1113	AL	38	4
10	20733600	62100	45	126	537	MY	42	4
9	20671500	64700	47	126	0555	CS	46	4
8	20606500	66500	40	125	828	MY	1	4
7	20540300	60500	41	124	710	MY	5	4
6	20470500	65800	41	123	532	MY	9	4
5	20414000	109300	75	74	1830	CS	13	2
4	20304700	78100	79	75	900	TH	16	5
3	20226600	76600	48	112	0130	CS	01	4
2	20150000	54200	52	112	0830	CS	25	4
1	20075500	7200	56	111	527	TH		5
	19997900						34	

109,300 gpd
169 cfs

RECEIVED

DEC 27 2004

WATER RESOURCES DEPT
SALEM OREGON

Total 1,970,100

Well 10 Daily Production Report

November 2004

Date	Meter Reading	Production	Time	Int.	Chlorine	used
30	6068000	68410	919	dm	46	4
29	5999590	70560	850	mg	1	5
28	5929030	66320	740	dm	6	3
27	5862710	65960	845	dm	9	3
26	5796750	70120	928	dm	12	3
25	5726636	67790	821	dm	15	4
24	5658840	66550	844	mg	19	3
23	5592890	71890	915	dm	22	4
22	5521400	66970	840	m	26	4
21	5454430	73080	0940	cs	30	3
20	5381350	71680	0900	cs	33	4
19	5309670	69860	830	W	37	3
18	5239810	69070	840	mg	40	3
17	5170740	69570	850	W	43	3
16	5101170	68970	0845	CS	46	4
15	5032200	59900	900	MY	4	3
14	4972400	81130	1210	Ac	7	4
13	4891270	65110	1200	AL	11	3
12	4824610	58940	0815	cor	14	3
11	4767220	64600	1135	AL	17	4
10	4692620	50760	900	MY	21	4
9	4641860	51420	0850	cs	25	3
8	4590240	58100	900	mg	28	4
7	4532140	52810	727	MY	32	3
6	4479630	64040	849	MY	35	4
5	4425090	57060	0830	c	39	4
4	4348570	55660	0855	cs	43	3
3	4312870	60030	0910	CS	46	4
2	4252840	56460	0830	c	2	5
1	4196380	61570	0900	cs	7	3
	4134810				10	

122 rfs

Total 1,933,190

RECEIVED

DEC 27 2004

WATER RESOURCES DEPT
SALEM OREGON

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12568

Final Order
Extension of Time for Permit Number G-12685

Appeal Rights

This is a final order in other than 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 137-004-0080 you may either petition for judicial review or 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.

Application History

On December 27, 2004, the City of Dundee submitted an application to the Department for an extension of time for Permit G-12685. The Department issued Permit G-12685 on August 21, 1996. The permit called for completion of construction by October 1, 1998 and complete application of water to beneficial use by October 1, 1999. In accordance with OAR 690-315-0050(2), on August 1, 2006 the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2025 and the time to fully apply water to beneficial use to October 1, 2025. The protest period closed September 15, 2006 in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Development Limitations**

Diversion of water beyond 0.85 cfs under Permit G-12685 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86. The required Water Management and Conservation Plan shall be submitted to the Department within 3 years from the date this extension becomes final.

The deadline established in this order for submittal of a Water Management and Conservation Plan shall not relieve a permittee of any existing or future requirements for submittal of a Plan at an earlier date as established through other orders of the

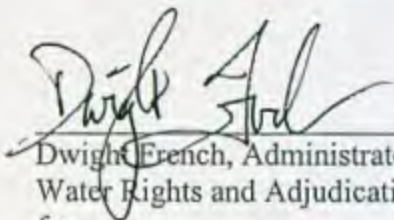
Department. A Plan submitted to meet the requirements of this order may also meet the Plan submittal requirements of other Department orders.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application G-12568, Permit G-12685, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended to October 1, 2025. The deadline for applying water to full beneficial use is extended to October 1, 2025.

DATED: September 29, 2006


Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

If you have any questions about statements contained in this document, please contact Ann L. Reece at (503) 986-0808.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900

NOTE: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holde

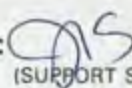
Mailing List for Extension FO Copies

Application G-12568
Permit G-12685

FO Date: September 29, 2006

Original mailed to permit holder:

City of Dundee
Attn: Eve Foote, City Administrator
PO Box 220
Dundee, OR 97115

Copies Mailed
By:  (SUPPORT STAFF)
on: 9-29-06 (DATE)

For Extension PFO's - Copies sent to:

1. WRD - Appl. File G-12568/ Permit G-12685
2. WRD - Watermaster District 16, Mike McCord, Salem e-copy (done 9/29/06 by MK)
4. WRD- Ken Starr
8. WRD - Sarah Henderson, Technical Services (for MU and QM requiring Division 86 plan)
11. WRD - Support Staff, Salem...*Permit record update*

Other interested parties:

Jeff S. Jones, P.E.
Murray, Smith & Associates
121 SW Salmon, Suite 900
Portland, OR 97204

CASEWORKER: ALR

**Oregon Water Resources Department
Water Rights Division**

Application for Extension of Time

In the Matter of the Application	)	
for an Extension of Time for	)	
Permit G-12685, Water Right	)	PROPOSED FINAL ORDER
Application G-12568	)	
(City of Dundee)	)	

Permit Information

Application File G-12568 / Permit G-12685

Basin 02 – Willamette Basin / Watermaster District 16

Date of Priority: June 7, 1991

Authorized Use of Water

Source of Water: Wells 8, 9 and 10 in the Chehalem Creek Basin

Purpose or Use: Municipal

Maximum Rate: 1.78 Cubic Feet per Second (CFS)

**This Extension of Time request is being processed in accordance
with Oregon Administrative Rule Chapter 690, Division 315.**

***Please read this Proposed Final Order in its entirety as it contains
additional conditions not included in the original permit.***

This Proposed Final Order applies only to Permit G-12685, water right Application G-12568. A copy of Permit G-12685 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- grant the extension for complete construction of the water system from October 1, 1998 to October 1, 2025;
- grant the extension for complete application of water from October 1, 1999 to October 1, 2025; and
- make the extension subject to certain conditions as set forth below.

AUTHORITY

ORS 537.630(2) provides in pertinent part that the Water Resources Department may, for good cause shown, shall order and allow an extension of time, for the completion of the well or other means of developing and securing the ground water or for complete application of water to beneficial use. In determining the extension, the department shall give due weight to the considerations described under ORS 539.010 (5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0080 provides in pertinent part that the Water Resources Department shall make findings to determine if an extension of time for municipal and/or quasi-municipal water use permit holders may be approved to complete construction and/or apply water to full beneficial use.

OAR 690-315-0090(3) authorizes the Department, under definitive circumstances, to condition an extension of time for municipal and/or quasi-municipal water use permit holders to provide that diversion of water beyond the maximum rate diverted under the permit or previous extension(s) shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

FINDINGS OF FACT

Background

1. Permit G-12685 was granted by the Water Resources Department (Department) on August 21, 1996. The permit authorizes the use of up to 1.78 cfs of water from three wells (Springs Well 8, First Street Well 9, and Alder Street Well 10), within the Chehalem Creek Basin, for municipal use. It specified that construction of the water development project should be completed by October 1, 1998, and that complete application of water was to be made on or before October 1, 1999.
2. No prior extensions have been granted for the permit. This is the first extension of time request for Permit G-12685.
3. Due to ongoing permit extension rulemaking, the Department placed all pending municipal and quasi-municipal permit extension of time requests on hold and did not require municipal and quasi-municipal water use permit holders to submit an extension application until the new rules were adopted.
4. Municipal and quasi-municipal water use permit extension rules OAR 690-315-0070 through 690-315-0100 were adopted by the Water Resources Commission November 1, 2002, were further revised, filed with the Secretary of State, and became effective on November 22, 2005.
5. The permit holder submitted an "Application for Extension of Time" to the Department on December 27, 2004, requesting the time in which to complete construction of the water system under the terms of Permit G-12685 be extended from October 1, 1998 to October 1, 2025, and the time in which to accomplish beneficial use of water to the full extent under the terms of Permit G-12685 be extended from October 1, 1999 to October 1, 2025.
6. Notification of the City of Dundee's (City) extension of time request for Permit G-12685 was published on the Department's Public Notice dated February 1, 2005. No public comment on the extension application was received.
7. On April 8, 2005, the City submitted additional information to supplement their Application for Extension of Time.

Review Criteria for Municipal Quasi-Municipal Water Use Permits [OAR 690-315-0080(1)]

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under

OAR 690-315-0080. This determination shall consider the applicable requirements of ORS 537.230¹, 537.248², 537.630³ and/or 539.010(5)⁴

Complete Extension of Time Application [OAR 690-315-0080(1)(a)]

8. The Department received a completed extension of time application and the statutory fee specified in ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0080(1)(b)]

9. Construction of the wells and water system began within the time specified in the permit, being August 21, 1997; however, ground water permits held by municipal corporations for municipal purposes are not subject to the requirement to begin actual construction work within one year from the date of approval of the application.⁵

Duration of Extension [OAR 690-315-0080(1)(c)(d)]

Under OAR 690-315-0080(1)(c)(d), the Department shall find that the time requested is reasonable and the applicant can complete the project within the time requested.

10. The remaining work to be accomplished under Permit G-12685 consists of exploratory well drilling to evaluate ground water aquifer limitations relative to future demands under G-12685, well rehabilitation, construction of a pump station, piping improvements and complete construction of the system and complete application of water to beneficial use.
11. As of December 27, 2004, the permit holder has appropriated 0.85 cfs of the 1.78 cfs of water allowed under Permit G-12685 for municipal purposes.
12. In addition to the 1.78 cfs of water allowed under Permit G-12685, the city is authorized to use 0.97 cfs under Permit G-6017, being 0.22 cfs from Springs Well 1, 0.26 cfs from

¹ ORS 537.230 applies to surface water permits only.

² ORS 537.248 applies to reservoir permits only.

³ ORS 537.630 applies to ground water permits only.

⁴ ORS 537.010(5) applies to surface water and ground water permits.

⁵ Section 5, chapter 410, Oregon Laws 2005, provides:

Sec. 5. (2) The amendments to ORS 537.230 and 537.630 by sections 1 and 2 of this 2005 Act apply to requests for extensions of time to complete construction or to perfect a water right made before, on or after the effective date of this 2005 Act, whether or not construction has commenced under a permit prior to the request.

(3) All final orders by the department that resulted in the issuance of a water right permit, the issuance of a water right certificate or the approval of an extension of time to complete construction or to perfect a water right for a municipal use that were issued before the effective date of this 2005 Act are not subject to challenge in an administrative or judicial proceeding with respect to the requirement to commence and complete construction within a specified period of time. [2005 c.410 §5]

Well 2 (also called River Well 4), 0.22 cfs from Well 3 (also called Springs Well 2), and 0.27 cfs from Old River Well 4, all within the Willamette River Basin; 0.33 cfs under Permit G-11058 (Springs Well 7) and 0.5 cfs under Permit G-12736 (Well 11) and 0.5 cfs under Permit G-13035 (Well 12) all within the Harvey Creek Basin; 0.18 cfs under Certificate 29157 (Supply Well - also called Well 3/ Deep Well) within the Chehalem Creek Basin; and 0.6 cfs under Certificate 61759, being 0.3 cfs from Well 5 and 0.3 cfs from Well 6, both within the Willamette River Basin.

The City also holds three certificates for use of spring water within the Willamette River Basin, being 0.5 cfs under Certificate 8781, .05 cfs under Certificate 8817, and 0.007 cfs under Certificate 14654, all within the Chehalem Creek Basin.

The City also holds surface water rights for use of 0.25 cfs from Harvey Creek under Certificate 17145, and for 4.0 cfs from the Willamette River under Permit S-44462.

The City's water right permits and certificates total 9.67 cfs of water.

13. To meet its present demand for water the City is currently utilizing a total of 2.0 cfs of water, being 0.12 cfs from Well 1, and 0.12 cfs from Well 3, both under Permit G-6017; 0.08 cfs from Supply Well under Certificate 29157; 0.30 cfs from Well 5, and 0.30 cfs from Well 6, both under Permit G-10148; 0.33 from Well 7 under Permit G-11058; 0.31 cfs from Well 8, 0.32 under Well 9, and 0.11 from Well 10, all under Permit G-12568.

The current pumping capacity of Wells 3 and 7 is lower than the permitted rate. The production capacities of Supply Well and Well 10 have been declining over time. For approximately nine years following well construction, Well 10 produced approximately 100 gallons per minute (gpm), however, its discharge is currently throttled such that the well currently produces approximately 50 gpm. Wells 2, 11 and 12 are not currently connected to the City's water supply and are not being utilized at this time, however, the City plans to develop Wells 11 and 12 to meet future increases in water demands. Well 4 is not operational. The waters from the City's springs and Harvey Creek are held as an emergency water supply source.

The city has not yet made use 6.66 cfs of water, being .93 cfs of water under Permit G-12685, 0.73 cfs under Permit G-6017, 0.5 cfs under Permit 12736, 0.5 cfs under Permit 13035, and 4.0 cfs from the Willamette River under Permit S-44462.

14. Based on a growth rate of 4 percent per year, the City of Dundee projects their population of 2770 in the year 2002 will grow to 5750 by the year 2020, and reach Urban Growth Boundary saturation development in 2023 with a population of 6350. As growth continues, the city expects both residential infill and zoning expansions, resulting in increase in population density and overall water demand (2003 Water System Master Plan, pages 3-2 to 3-5).

15. According to the City's 1993 Water System Evaluation and Master Plan, the City expects commercial development to occur as the residential population expands and increases the demand for such activities (Section 2 page 8). Additionally, according to the same Master Plan, the City's projected growth of water system users, between the years 1990 and 2012, includes an average 10 percent per year increase in acres used for industrial development and an average 8 percent per year increase in acres used for commercial development (Table 2-4, Section 2 page 8).
16. According to the 2003 Water System Master Plan (page 3-1), the City water system currently provides service to the area within the Urban Growth Boundary (UGB) as well as to several connections outside of this boundary. The services outside the UGB have historically accounted for approximately 6 percent of the water demand, and are anticipated to continue being served at this same level by the City in the future. Furthermore, the agricultural area with the UGB is expected to be rezoned as residential prior to the saturation development of the UGB, with a population density of five people per net available acre.
17. Historical maximum daily per capita usage has been as low as 260 gallons per capita per day (GPCD) and as high as 360 GPCD. The City expects its maximum daily per capita usage to ultimately be maintained at approximately 320 GPCD, even in drought years, by implementing conservation measures.
18. Based on a projected growth of 4 percent per year and the industrial and commercial development projections of the city, full development of the remaining portion of Permit 12685 could occur by the year 2025.
19. Given the amount of remaining work to be accomplished under G-12685, the City's projected annual growth rate and associated projected demands for water, expansion of its service area, implementation of conservation measures, the uncertainty of the stability of the ground water aquifer and therefore considering the reliability of the other water rights held by the City, the permit holder's request to have until October 1, 2025, to complete construction of the water system and to complete the application of water to beneficial use under the terms of Permit 12685 is reasonable.

Good Cause [OAR 690-315-0080(1)(e) and (3)(a-g)]

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0080(3).

Reasonable Diligence and Good Faith of the Appropriator [OAR 690-315-0080(3)(a),(c) and (4)]

Reasonable diligence and good faith of the appropriator must be demonstrated during the permit period or prior extension period as a part of evaluating good cause in determining whether or not to grant an extension. In determining the reasonable diligence and good faith of a municipal

or quasi-municipal water use permit holder, the Department shall consider activities associated with the development of the right including, but not limited to, the items set forth under OAR 690-315-0080(4) and shall evaluate how well the applicant met the conditions of the permit or conditions of a prior extension period.

20. Prior to the issuance of Permit G-12685 on August 21, 1996, the City constructed Wells 8, 9 and 10 and the Clearwell Pump Station.
21. During the original development time frame under Permit G-12685, being from August 21, 1996 to October 1, 1999, the following occurred: the City upgraded chlorination facilities and installed water distribution lines in the Fir Court and Falcon Crest Subdivisions.
22. Since October 1, 1999, the City completed the 2003 Water System Master Plan.
23. As of December 27, 2004, the permit holder has invested \$870,000 which is 61 percent of the total projected cost for complete development of this project. An additional \$550,000 investment is anticipated for the completion of this project.
24. Since the issuance of Permit G-12685 on August 21, 1996, approximately 0.85 cfs of the 1.78 cfs allowed has been appropriated, being 0.31 cfs from Well 8, 0.32 cfs from Well 9 and .22 cfs from Well 10 for beneficial municipal purposes under the terms of this permit.
25. The record does raise concerns about the permit holder's compliance with conditions. Specifically, Permit G-12685 required the City to submit a Water Management and Conservation Plan consistent with OAR Chapter 690, Division 86 (Plan) to the Department by August 21, 1997. To date, the Department has not yet received the required Plan from the City.

Financial Investment and Cost to Appropriate and Apply Water to a Beneficial Purpose
[OAR 690-315-0080(2)(b)]

26. As of December 27, 2004, the permit holder has invested an approximate total of \$870,000 into the project, consisting of construction of Wells 8, 9 and 10, installation of meters and water distribution lines, construction of a pump station, upgrading chlorination facilities, and completion of the 2003 Water System Master Plan. An additional \$550,000 investment is anticipated for the completion of this project.

The Market and Present Demands for Water [OAR 690-315-0080(2)(d)]

27. As described in Findings 12 through 17 above, the City relies almost exclusively on its

permitted ground water rights to meet all its water requirements, and must rely on full development of all their permitted rights to meet future water demands.

28. The City projects a population increase, on average, of 4.0 percent per year over the next twenty-five years and according to their 1993 Water System Evaluation and Master Plan (Section 2, page 8), the City expects commercial and industrial growth to increase proportionally.
29. Given the City's current water supply situation and current and expected demands, there is a market and present demand for the water to be supplied under Permit G-12685.
30. The department determined in accordance with OAR 690-315-0090(3), and is specified under Item 1 (Development Limitations) of the "Conditions" section of this Proposed Final Order for an Extension of Time, that this water right permit extension shall be conditioned to provide that the diversion of water beyond 0.85 cfs under Permit G-12685 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

Fair Return Upon Investment [OAR 690-315-0080(3)(e)]

31. Use and income from the permitted water development project already result in reasonable returns upon the investment made to date.

Other Governmental Requirements [OAR 690-315-0080(3)(f)]

32. Delay in the development of this project was not caused by any other governmental requirements.

Events which Delayed Development under the Permit [OAR 690-315-0080(3)(g)]

33. Delay of development under Permit G-12685 was due, in part, to the size and scope of the municipal water system, which was designed to be phased in over a period of years. Additionally, due to the yield of city wells decreasing over time, complete beneficial use of water under Permit G-12685 is dependent on the results of ongoing groundwater aquifer exploration to determine if future demands can be met by existing or expanded groundwater supplies.

Maintaining the Persistence of Listed Fish Species [OAR 690-315-0080(1)(f) and (2)]

The Department's determination regarding maintaining the persistence of listed fish species shall be based on existing data and advice of the Oregon Department of Fish and Wildlife (ODFW). The determination shall be limited to impacts related to streamflow as a result of use of the undeveloped portion of the permit and further limited to where, as a result of use of the undeveloped portion of the permit, ODFW indicates that streamflow would be a limiting factor for the subject listed fish species.

34. On February 24, 2006 the Water Resources Department determined under OAR Chapter 690 Division 9, that use of water under this ground water Permit G-12685 does not have the potential for substantial interference with surface water.
35. Based upon the Department's determination described in Finding 34, the use of the undeveloped portion of Permit G-12685 does not have the potential for substantial interference with surface water, and therefore the persistence of listed fish species will be maintained.

CONCLUSIONS OF LAW

1. The applicant is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(2).
2. The applicant has submitted a complete extension application form and the fee specified under ORS 536.050(1)(k), as required by OAR 690-315-0080(1)(a).
3. Pursuant to Section 5, Chapter 410, Oregon Laws 2005, the permit holder is not required to demonstrate that actual construction of the project began within one year of the date of issuance of the permit, as required by OAR 690-315-0080(1)(b).
4. The time requested to complete construction and apply water to full beneficial use is reasonable, as required by OAR 690-315-0080(1)(c).
5. Completion of construction and full application of water to beneficial use can be completed by October 1, 2025⁶ pursuant to OAR 690-315-0080(1)(d).
6. After considering the reasonable diligence and good faith of the appropriator, the financial investment made, the market and present demands for water, the fair return upon the investment, the requirements of other governmental agencies and uncontrollable events which delayed development under the permit, the Department has determined that the applicant has shown good cause for an extension to complete construction of the water system and to complete the application of water to full beneficial use pursuant to OAR 690-315-0080(1)(e).
7. In accordance with OAR 690-315-0080(1)(f), and as described in Findings 34 and 35 above, the persistence of listed fish species will be maintained in the portions of the waterways affected by water use under this municipal use permit.

⁶ Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use.

8. In accordance with OAR 690-315-0090(3) and as described in Finding 30 above, the Department has established, as specified under Item 1 of the "Conditions" section of this Proposed Final Order for an Extension of Time, that the diversion of water beyond 0.85 cfs under Permit G-12685 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

Proposed Order

Based upon the foregoing findings of fact and conclusions of law, the Department proposes to issue an order to:

Extend the time for complete construction of the water system under Permit G-12685 from October 1, 1998 to October 1, 2025.

Extend the time for complete application of water to beneficial use under Permit G-12685 from October 1, 1999 to October 1, 2025.

Subject to the following conditions:

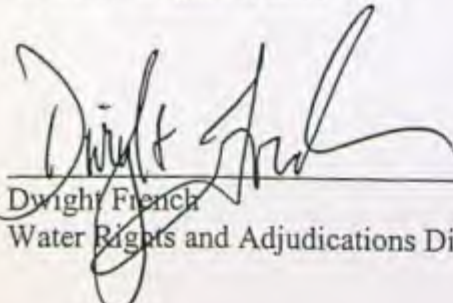
CONDITIONS

1. **Development Limitations**

Diversion of water beyond 0.85 cfs under Permit G-12685 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86. The required Water Management and Conservation Plan shall be submitted to the Department within 3 years from the date this extension becomes final.

The deadline established in this order for submittal of a Water Management and Conservation Plan shall not relieve a permittee of any existing or future requirements for submittal of a Plan at an earlier date as established through other orders of the Department. A Plan submitted to meet the requirements of this order may also meet the Plan submittal requirements of other Department orders.

DATED: August 1, 2006


Dwight French
Water Rights and Adjudications Division

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may request a contested case hearing on the proposed final order. Your request for contested case hearing must be in writing and must be received by the Water Resources Department no later than September 15, 2006 being 45 days from the date of publication of the proposed final order in the Department's weekly public notice.
2. A written request for contested case hearing shall include:
 - a. The name, address and telephone number of the petitioner;
 - b. A description of the petitioner's interest in the final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
 - c. A detailed description of how the action proposed in the final order would adversely affect or aggrieve the petitioner's interest;
 - d. A detailed description of how the final order is in error or deficient and how to correct the alleged error or deficiency;
 - e. Any citation of legal authority supporting the petitioner, if known;
 - f. Proof of service of the petition upon the water right permit holder, if petitioner is other than the water right permit holder; and
 - g. The protest fee required under ORS 536.050.
3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
 - a. Issue a final order on the extension request; or
 - b. Schedule a contested case hearing if a request for contested case hearing has been submitted, and:
 - 1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
 - 2) The applicant submitted a timely request for a contested case hearing.

If you have any questions about statements contained in this document, please contact Ann L. Reece at 503-986-0808.

If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Mike Reynolds at 503-986-0820.

If you have any questions about the Department, or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.

Address any correspondence to:

Water Rights and Adjudications Division
725 Summer St NE, Suite A
Salem, OR 97302

Fax: 503-986-0901

Mailing List for Extension PFO Copies

Application G-12568
Permit G-12685

PFO Date: August 1, 2006

Original mailed to:

Applicant: City of Dundee
Attn: Eve Foote, City Administrator
PO Box 220
Dundee, OR 97115 ✓

Copies Mailed	
By:	
	(SUPPORT STAFF)
on:	8/1/06
	(DATE)

For Extension PFO's - Copies sent to:

1. WRD - Appl. File G- 12568 / Permit G-12685 ✓

Other interested parties:

5. Jeff S. Jones, P.E.
Murray, Smith & Associates, Inc.
121 SW Salmon, Suite 900
Portland, OR 97204 ✓

Receiving via e-mail (10 AM Tuesday of signature date)

5. Static Water Level Decline Levels Triggered (or close to triggering) ☐ YES ☒ NO
6. PFO: WRD – Watermaster District 16 – Mike McCord, Salem
Done by AL Date 8-20-06

CASEWORKER: ALR

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Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12568

Final Order

Application History

On June 7, 1991, CITY OF DUNDEE submitted an application to the Department for the following water use permit:

- Amount of Water: 1.78 CUBIC FEET PER SECOND
- Use of Water: MUNICIPAL USE
- Source of Water: THREE WELLS IN CHEHALEM CREEK BASIN
- Area of Proposed Use: Yamhill County within SECTION 25, SECTION 26, SECTION 35, SECTION 36, TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

The Department mailed the applicant notice of its Satisfactory Technical Review September 22, 1993. The Technical Review determined that 1.78 CFS for MUNICIPAL USE is allowed year round. The 60-day objection period closed November 29, 1993. On November 29, 1993 an objection was submitted by WaterWatch. The Department denied the WaterWatch objection March 10, 1994. On April 13, 1994, WaterWatch submitted a protest on the denial of their objections.

Assessment

1. In proceeding with the evaluation of Application G-12568 the Department has determined that the findings of the Technical Review require modification.

2. The following sources of information were relevant in the Department's continued evaluation of Application G-12568:

- comments by or consultation with another state agency
- the Willamette Basin Program
- the Yamhill County comprehensive plan
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of record
- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any comments received
- protests received

3) As a result of the Department's continued evaluation of the application and evaluation of the protest and comments submitted the Department has made the following findings:

a. Water Conservation

The protestant asserts that the Water System Evaluation and Master Plan for the City of Dundee makes no reference to water conservation or water conservation planning.

To address the protest the attached permit shall contain the following new condition:

Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

b. Additional Resource Protection Conditions

To prevent the potential for substantial interference with surface water the Technical Review, issued September 22, 1993, proposed a condition requiring that water be developed from the Columbia River Basalts. Upon further evaluation of application G-12568 the Department finds that the following conditions and modifications are necessary to clarify the findings of the Technical Review and to protect the resource and the public interest.

To clarify which aquifer is authorized for use, the attached permit shall contain the following condition:

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

Pursuant to the Willamette Basin Program OAR 690-502-160 (3), ground water appropriations from the Columbia River Basalt Group are subject to special conditions. The attached permit shall contain the following required resource protection conditions:

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

(a) An average water level decline of three or more feet per year for five consecutive years; or

(b) A total water level decline of fifteen or more feet; or

(c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

- (2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.
- (3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.
 - (a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.
 - (b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.
 - (c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.
 - (d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.
 - (e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

The Willamette Basin Program allows MUNICIPAL USE

THREE WELLS IN CHEHALEM CREEK BASIN are not within or above a State Scenic Waterway.

Water is available for the proposed use year-round.

The Department finds that no more than 1.78 cfs would be necessary for the proposed use. The amount of water requested, 1.78 CUBIC FEET PER SECOND, is allowable.

The Department determined, based upon OAR 690-09, that the proposed groundwater use will, if properly conditioned, adequately protect the surface water from interference.

The Groundwater Section finds that there is NOT a preponderance of evidence that the proposed use of groundwater 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.

Yamhill County Planning Department staff completed the Department's Land Use Information Form and indicated thereon that the land use associated with the proposed use is compatible with the Yamhill County Comprehensive Land Use Plan.

The City of Dundee through their Water System Evaluation and Master Plan has demonstrated a need for the requested water.

The proposed use would not conflict with existing water rights, and, if exercised in accordance with law, rule, and the proposed conditions would not result in injury to existing water users.

The proposed use complies with all other rules of the Commission.

A timely protest to the Technical Review was submitted by WaterWatch of Oregon. Upon review of the protest the Director finds that there are not significant disputes related to the proposed use of water.

The applicant did not request a contested case hearing.

Pursuant to Chapter 416, Oregon laws, 1995, enacted by the 68th Oregon Legislative Assembly, and given the findings listed above, a rebuttable presumption has been established that the use will ensure the preservation of the public welfare, safety and health if exercised in the manner described in the attached permit.

The presumption has not been overcome by a preponderance of evidence that the proposed use, as conditioned herein, would not ensure the preservation of the public welfare, safety and health.

Therefore, the proposed use, as conditioned, and described in the attached permit, will ensure the preservation of the public welfare, safety and health.

Conclusions of Law

Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.

The proposed use requested in this application is allowed in the Willamette Basin Plan.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water is available for the proposed use.

The proposed use will not injure other water rights.

The proposed use complies with rules of the Water Resources Commission.

The proposed use complies with the State Agency Agreement for land use.

For these reasons, the required presumption has been established.

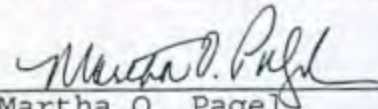
In this application, all criteria for establishing the presumption have been satisfied, as noted above. The presumption has not been overcome by a preponderance of evidence that the use would not ensure the preservation of the public welfare, safety and health.

The Department therefore concludes that water is available in the amount necessary for the proposed use; the proposed use will not result in injury to existing water rights; and the proposed use would ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Order

IT IS ORDERED that application G-12568 is approved with the above modifications to the Technical Review, and Permit Number G-12685 is issued as limited by the conditions set forth in the attached permit.

DATED August 21, 1996


Martha O. Pagel
Director



Hearing and Appeal Rights

Under the provisions of ORS 537.170, the applicant may request a contested case hearing by submitting the information required for a protest under ORS 527.153(6) to the Department within 14 days after the date of mailing of this order as shown below. If a contested case hearing is requested, the Department must schedule one. In the contested case hearing, however, only those issues based on the above modifications to the proposed final order may be addressed.

Under the provisions of ORS 183.484, the applicant or any person having standing may appeal this order by filing a petition for review in the Circuit Court for Marion County or the circuit court for the county in which the applicant resides or has a principal business office. The petition for review must be filed within 60 days after the date this order is served.



STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

(a) An average water level decline of three or more feet per year for five consecutive years; or

(b) A total water level decline of fifteen or more feet; or

(c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

(2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.

(3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

(a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.

(b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.

(c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

STANDARD CONDITIONS

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

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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

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

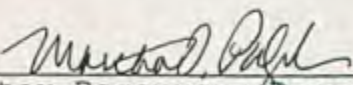
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued August 21, 1996


Water Resources Department
Director

well 8

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Records: 134943
Found: 2
Sorted

Permit Condition Water Level Input

OWRD Logid	Main aq	Max depth	Corr by	LSD Elev	Userid_lu	Town
Well Info: YAMH 1050	Columbia River Basalt	304	KARL WOZNIAK	450	1089	3.0
Well Location 550 FEET SOUTH & 1000 FEET WEST FROM NE CORNER, SECTION 27						

Owner:

Name _____
 Other Name CITY OF DUNDEE
 Contact CHUCK LUND - DIR OF PUBLIC WORKS
 Address _____ P.O. BOX 220
 City, St, Zip DUNDEE OR 97115-0220
 Phone, FAX _____
 Email _____
 Comments _____

Permits listing well:

pc permit cert_nbr pod pr
 0 12085 1

Logid	Source Org	SourceOWRD	Date	Time	MP Hght	Reptd Wtr Lvl	Verified WL BLS	Export WL BLS	Metho
YAMH 1050	DRILLER	WELL LOG	12/17/1991			8.0	8	8.00	REPO
YAMH 1050	OWRD	GWATER	09/28/2005	08:47	3.15		83.05	83.05	ETAPI

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Well 9

FileMaker Pro

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Records: 134943

Found: 23

Sorted

Permit Condition Water Level Input

OWRD Logid Main aq Max depth Corr by LSD Elev Userid_lu Tot

Well Info: YAMH 1659 Columbia River Basalt 385 KARL WOZNIAK 230 1089 3

Well Location 1790 FEET SOUTH & 795 FEET EAST FROM NW CORNER SECTION 25

Owner:

Name _____

Other Name CITY OF DUNDEE

Contact CHUCK LUND - DIR OF PUBLIC WORKS

Address _____ P.O. BOX 220

City, St, Zip DUNDEE OR 97115-0220

Phone, FAX _____

Email _____

Comments _____

Permits listing well:

po permit cert_nbr pod g 12895 2

Logid	Source Org	SourceOWRD	Date	Time	MP Hght	Repted Wtr Lvl	Verified WL BLS	Export WL BLS Meth
YAMH 1659	OWRD	WELL LOG	02/11/1992			1.0	1	1.00 REPT
YAMH 1659	OWRD	GWATER	09/28/2005	12:08	3.15		81.98	81.98 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:08	3.15		81.88	81.88 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:10	3.15		81.36	81.36 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:11:48	3.15		88.1	88.10 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:12:48	3.15		101.2	101.20 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:13:48	3.15		108.65	108.65 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:14:48	3.15		118.4	118.40 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:15:48	3.15		120.09	120.09 ETAF
YAMH 1659	OWRD	GWATER	09/28/2005	12:17:15	3.15		123.02	123.02 ETAF
YAMH 1659	OWRD	GWATER	04/11/2006	09:11	3.15		150.17	150.17 ETAF
YAMH 1659	OWRD	GWATER	04/21/2006	09:32	3.15		40.03	40.03 ETAF
YAMH 1659	OWRD	GWATER	04/21/2006	11:00	3.15		39.98	39.98 ETAF
YAMH 1659	OWRD	GWATER	04/25/2006	10:01	3.15		37.77	37.77 ETAF
YAMH 1659	OWRD	GWATER	05/04/2006	09:39	3.15		35.71	35.71 ETAF
YAMH 1659	OWRD	GWATER	05/22/2006	12:30	3.15		37.04	37.04 ETAF
YAMH 1659	OWRD	GWATER	05/25/2006	10:52	3.15		37.26	37.26 ETAF
YAMH 1659	OWRD	GWATER	06/05/2006	05:59	3.15		36.46	36.46 ETAF
YAMH 1659	OWRD	GWATER	06/08/2006	10:34	3.15		36.63	36.63 ETAF
YAMH 1659	OWRD	GWATER	06/11/2006	09:45	3.15		36.44	36.44 ETAF
YAMH 1659	OWRD	GWATER	06/12/2006	09:08	3.15		36.5	36.50 ETAF
YAMH 1659	OWRD	GWATER	06/16/2006	09:54	3.15		37.04	37.04 ETAF
YAMH 1659	OWRD	GWATER	06/20/2006	12:17	3.15		147.75	147.75 ETAF

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Well 10

FileMaker Pro - [gw_water_levels.fp5]

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PC Inp... 2

Records: 134943
Found: 2
Sorted

Permit Condition Water Level Input

OVRD Logid	Main aq	Max depth	Corr by	LSD Elev	Userid_lu	Town
Well Info: YAMH 1858	Columbia River Basalt	482	KARL WOZNAK	175	1089	3.0
Well Location: 616 FEET SOUTH & 1379 FEET WEST FROM NE CORNER, SECTION 35						
Owner:						
Name						
Other Name	CITY OF DUNDEE					
Contact	CHUCK LUND - DIR. OF PUBLIC WORKS					
Address	P.O. BOX 220					
City, St, Zip	DUNDEE OR 97115-0220					
Phone, FAX						
Email						
Comments						

Permits listing well:

pc	permit	cert_nbr	pod	ps
G	12885		3	

Logid	Source Org	SourceOVRD	Date	Time	MP Hght	Repted Wtr Lvl	Verified WL BLS	Export WL BLS	Metho
YAMH 1858	OVRD	WELL LOG	01/28/1992			41.0		41.00	REPO
YAMH 1858	OVRD	GWATER	09/28/2005	13:03	3.25			284.50	ETAPI

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Permit Extension Ground Water Review

Date: Feb 24, 2006
To: Doug Woodcock, Ground Water Section Manager
From: Dann Miller, Permit Extension Review
Subject: Ground Water Review for File #G- 12568 / Permit #G- 12685
(Date permit issued: Aug 21, 1996)

The above referenced permit is currently being reviewed for an extension of time. Before I can determine whether or not an extension of time should be granted, a Ground Water review for this file is necessary. Special designations affecting this permit are as follows:

NOTE: Original Division 9 review completed by: _____

- ☐ Located within a Ground Water Administrative Area (Critical, Limited, etc.) _____
- ☐ 5-Year Limited Permit
- ☐ Other: _____
- ☒ None (no special designations)

For Ground Water / Hydrology Staff Use:

Please answer the following questions. If necessary, attach an additional sheet.

1. Does the ground water source under this permit have the potential for substantial interference with surface water? No
[NOTE: Applies ONLY to Municipal permits issued before November 2, 1998 - see OAR 690-315-0080(1) & (2)]

2. Should any additional conditions be added to this permit? No

3. Should the extension of time request be **DENIED** due to ground water supply concerns? No

[NOTE: Does NOT apply to Quasi-Municipal or Municipal permits issued on or before November 2, 1998 - see OAR 690-315-0080(5)]

4. Should the Department establish a new reference level for water level declines due to the failure of permittee to submit annual measurements? No

5. Other issues or concerns? _____

OREGON WATER RESOURCES DEPARTMENT
GROUND WATER REVIEW: MUNICIPAL PERMIT EXTENSION OF TIME

Date: February 24, 2006

To: Water Rights Section

From: Donn Miller, Staff Hydrogeologist

Extension Review for File # G- 12568 / Permit # G- 12685

The undeveloped portion of this permit has been evaluated under the Department's 690-09 rules and Was ☐ / **was not** ☒ found to have the Potential for Substantial Interference with surface water. The evaluation was conducted pursuant to OAR 690-315. Forward files found to have the potential for substantial interference to Oregon Department of Fish and Wildlife.

Undeveloped Portion of Permit in CFS: _____

Estimate of impact and location of evaluation (River mile or PLS)

Stream depletion occurs over a stream reach. Depletion can be variable due to the presence or absence of confining layers within the aquifer. The majority of the impact will extend over a reach twice the distance between the well and the stream.

Stream: _____

Location _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Stream: _____

Location _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Stream: _____

Location _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Municipal/Quasi-Municipal Extension of Time Review

TO: Water Rights Section Date 2/24/06

FROM: Ground Water/Hydrology Section Donn Miller
Reviewer's Name

SUBJECT: File G- 12568 Supersedes review of none for extension of time
Date of Review(s)

Criteria for Department Review of Extension Applications for Municipal and Quasi-Municipal Water Use Permits (Ground Water)

OAR 690-315-0080 (2)(c): For ground water permits submitted to ODFW under this rule (permits determined to have the potential for substantial interference), the Department shall provide to ODFW and the applicant the Department's estimate of surface water impacts that would result from the use of the undeveloped portion of the ground water permit. This review is based upon available information and agency policies in place at the time of evaluation.

A. GENERAL INFORMATION: Applicant's Name: City of Dundee County: Yamhill

Applicant(s) seek(s) 0.88 cfs from 3 well(s) in the Willamette Basin,
Harvey Creek, Hess Creek subbasin Quad Map: Dundee

Proposed use: municipal Seasonality: year round

Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	YAMH 1656	8	CRB	0.88 combined	T3S/R3W-S27 NW ¼ of NE 1/4	550'S, 1860' W fr NE cor S 27
2	YAMH 1359	9, First St	CRB	0.88 combined	T3S/R3W-S25 SW ¼ of NW 1/4	1790'S, 795' E fr NW cor S 25
3	YAMH 1658	10, Alder St	CRB	0.88 combined	T3S/R3W-S35 NW ¼ of NE 1/4	616'S, 1379' W fr NE cor S 35
4						
5						

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	450	98	8	12/17/91	304	0-75	0-75	-----	-----	210	75	P
2	230	55	1	2/11/92	385	0-108	0-108	-----	-----	150	170	P
3	160	65	41	1/28/92	482	0-340	0-340	-----	-----	150	220	P

Use data from application for proposed wells.

Comments: The permit authorizes a single discharge rate that is undifferentiated among the wells. The city reports the follow production capacities: #8-130gpm (0.29cfs), #9-145gpm (0.32cfs), and #10-50gpm (0.11cfs). Use of #10 is now throttled back to that rate and produced 100gpm formerly. The city thinks that the reduced yield at #10 follows from swl declines. The city says that it has developed 0.90 cfs from the three wells (which is greater than the sum of the stated parts) and intends to increase the total rate 0.88 cfs to the originally authorized 1.78 cfs through well improvements and expansion. I assume that the city is saying that rehabilitation, deepening, and additional wells will be needed for production to grow. The city has failed to submit the required March swl measurements on the wells but promises to begin with March 2006 measurements.

Annual SWL measuring and reporting as required did not occur and hampers this analysis.

All of the first water entries on well logs says that they are the first significant water.

☐ Well(s) # _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area: _____

Comments: N/A

GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
8	CRB	☒	☐
9	CRB	☒	☐
10	CRB	☒	☐
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: CRB character generally in conjunction with the casing and sealing provisions at these wells specifically should result in confined conditions that would be aquifer test confirmable.

690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
8	1	Harvey Creek	~442	~440	100	☐	☐	☐	☐	☒
9	2	Unnamed trib Chehalem Ck	~175	~160	1100	☐	☒	☐	☐	☒
10	3	Unnamed trib Hess Ck	~119	~130	1600	☐	☒	☐	☐	☒
						☐	☐	☐	☐	☐
9	4	Unnamed trib Willamette R	~175	~160	4300	☐	☒	☐	☐	☒
						☐	☐	☐	☐	☐
10	5	Hess Creek	~119	100	2700	☐	☒	☐	☐	☒
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: For well #8 the heads are strongly similar, the creek is incised to CRB bedrock, and the well test showed strong wl stability after 10 minutes. Other city wells nearby show some of these same kinds of relationships. Still, the conservative approach that uses water-bearing zone outcropping at the There is a lack of topographic incision and other factors to note hydraulic connections at wells #9 and #10 with nearby creeks. Alluvium at those sites is 10's of feet thick and includes clays.

Water Availability Basin the well(s) are located within: Willamette River above Molalla River

690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
8	1	☐	☐	N/A	N/A	☐	N/A	☐	N/A	☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: N/A

690-09-040 (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Total Interf. CFS													

Comments: N/A

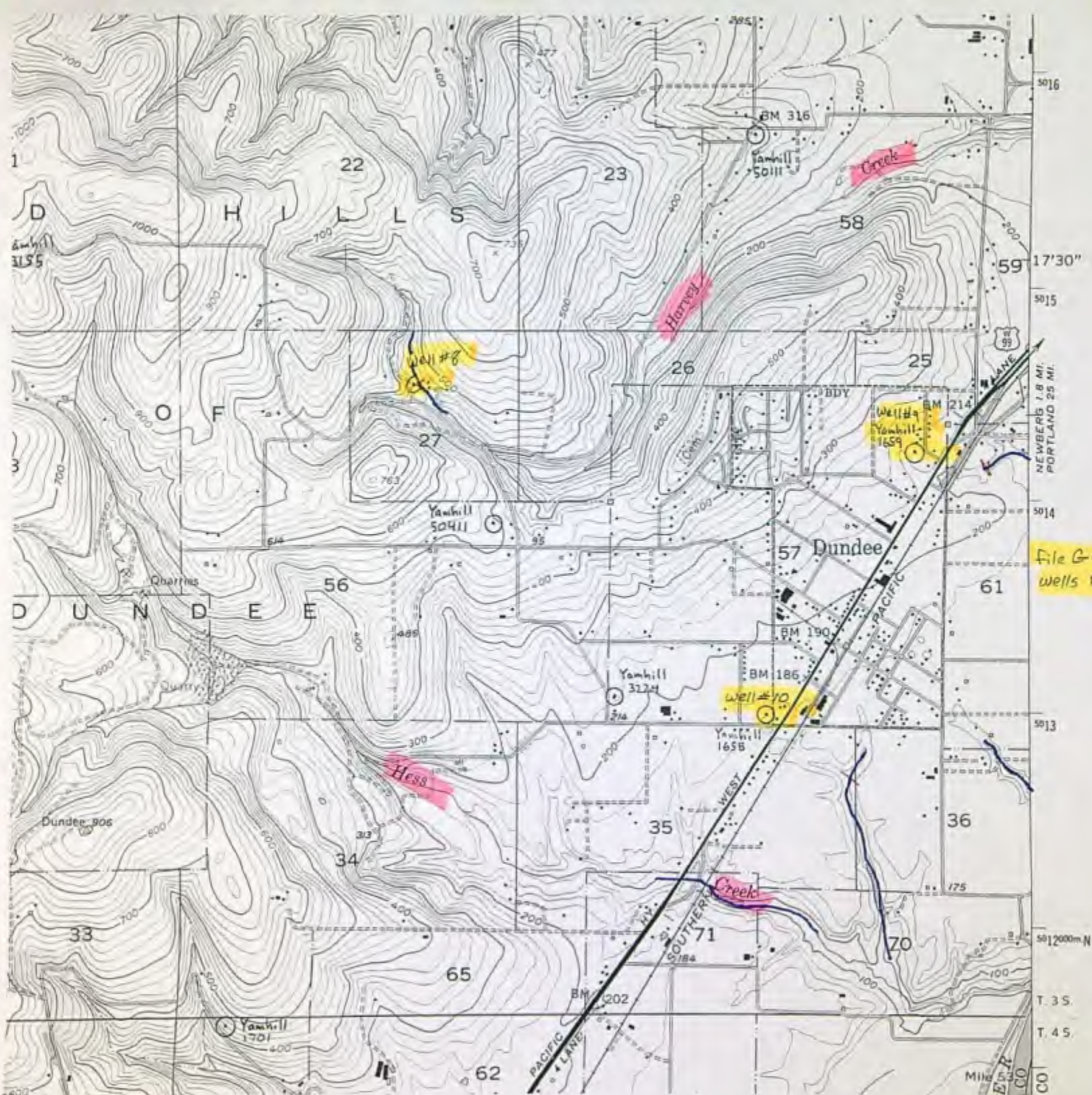
Extension Review Remarks / Conditions: The water level reporting condition needs to continue and reporting must start. This user needs to take water level measurement more seriously than in the past. Frankly, the total neglect of this requirement could seriously bear on extension consideration.

This review has taken a very conservative approach to gw/sw interactions. The approach is consistent with that employed on the original review of the application in 1991. Basically, the classical confined aquifer model is applied so as to not find hydraulic connection with nearby creeks by virtue of leakage across confining layers. This is particularly significant for well #8 in the watershed where water levels are similar and there is close proximity.

I consulted with Marc Norton and Karl Wozniak of OWRD during this review as they are familiar with the wells and local ground water.

Attach estimates of surface water impacts to this review

References Used: OWRD GW Report #27, Murray Smith and Assoc/GSI Aquifer test for test well, USGS SIR 2005-5168, Extension and other file materials

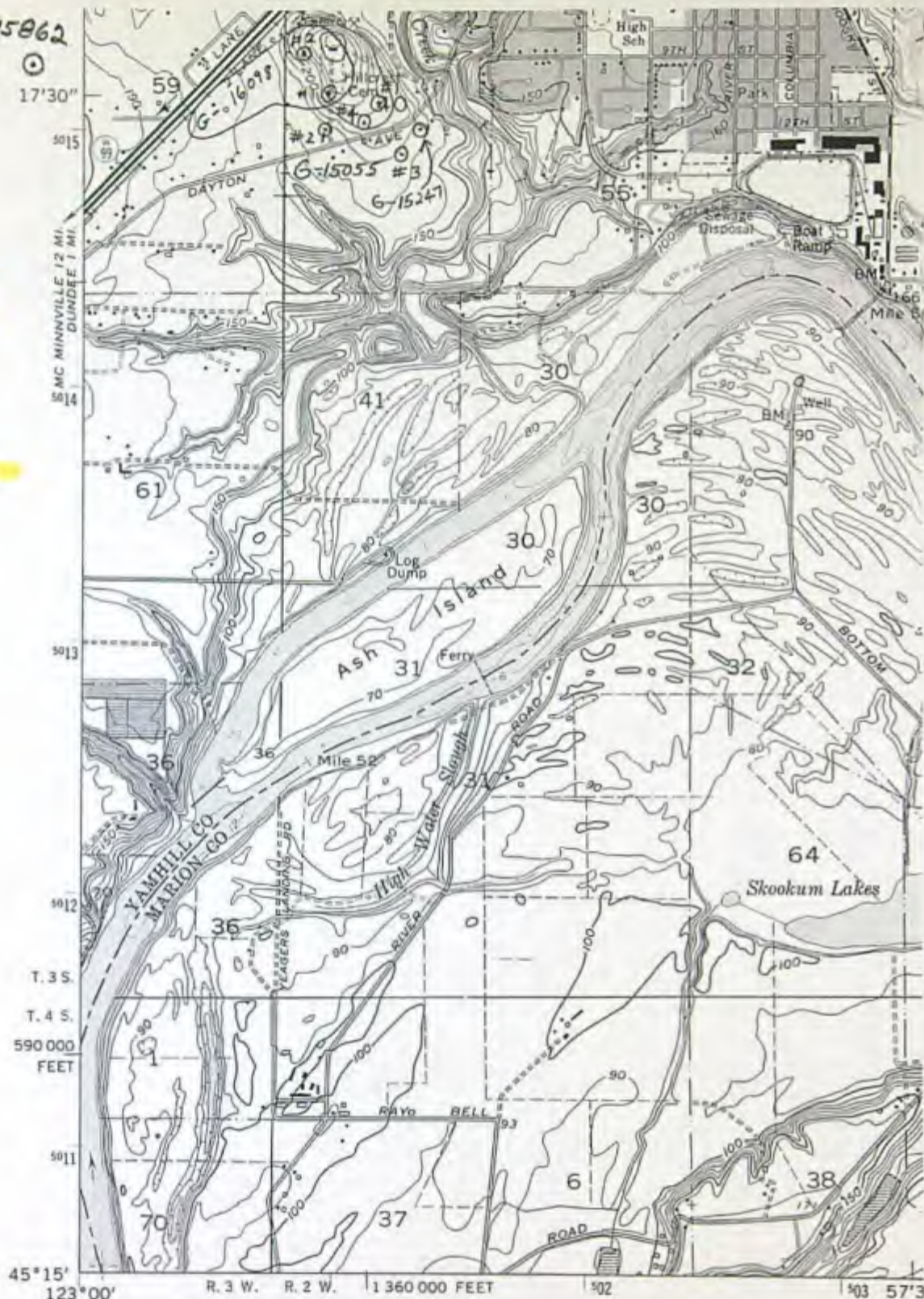


G-15862
G-16067
#1
#2

#9

G-12568

#10



(DAYTON)
1374 II NE

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, USCE, and State of Oregon

Topography from aerial photographs by photogrammetric methods

Aerial photographs taken 1952. Field check 1954

Revised from aerial photographs taken 1960. Field check 1961

Selected hydrographic data compiled from USC&GS Chart 6172 (1958)

This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum

10,000-foot grid based on Oregon coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks,

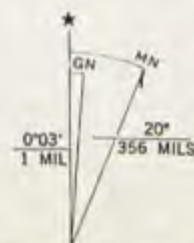
zone 10, shown in blue

To place on the predicted North American Datum 1983,

move the projection lines 23 meters north and

95 meters east as shown by dashed corner ticks

Red tint indicates area in which only landmark buildings are shown



UTM GRID AND 1985 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

There may be private inholdings with the boundaries of the National or State reservations shown on this map

**Municipal Permit Extensions -
Remaining Undeveloped Portion of Water**

Date: January 10, 2006
To: Application # G-12568 (Permit # G-12685)
From: Lisa Jaramillo, Permit Extension of Time Review ~~JD~~
Subject: Current remaining undeveloped portion of water under municipal use permit

Today, I spoke with the City of Durand to determine whether or not the quantity of water beneficially used under their municipal use permit has increased from the quantity identified in their pending extension of time application (received on 12-27-2004.)

The permit holder indicated that the quantity of water used for beneficial purposes under this municipal use permit:

- ☐ **HAS INCREASED** from the quantity identified in their pending extension of time application;
(For permits where beneficial water use has increased, the Department has requested the City to submit a written update identifying the "current" quantity of beneficial water use under this permit in order to maintain official documentation from the City in the file record.)

- OR -

☒ **HAS NOT INCREASED** from the quantity identified in their pending extension of time application.

NOTE: The following information is provided to document "quantity" information obtained during my telephone conversation with the permit holder.

Application # G-12568 / Permit # G-12685
Permitted quantity of water: 1.78 cfs
Maximum quantity of water developed: 0.9 cfs
Date information obtained by telephone from the City: 1-10-2006
Remaining undeveloped portion: 0.88 cfs

**Municipal Permit Extensions -
Remaining Undeveloped Portion of Water**

Date: Dec. 27, 2005
To: Doug Woodcock, Ground Water Section Manager
From: Lisa Jaramillo, Permit Extension of Time Review
Subject: Remaining undeveloped portion of water under municipal use permit

For purposes of determining impacts related to streamflow as a result of use of the undeveloped portion of the permit [OAR 690-315-0080(2)], the following information identifies the remaining undeveloped portion of water under the municipal water use permit described below:

Name of City: City of Dundee
Application # G-12568 / Permit # G-12685

Permitted quantity of water: 1.78 cfs

Maximum quantity of water developed: 0.9 cfs

• Date this information provided by City: 12-27-2004 (Ext.)

Remaining undeveloped portion: 0.88 cfs

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

725 Summer St. N.E. Ste. A

SALEM, OR 97301-4172

(503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **71991**

INVOICE # _____

RECEIVED FROM: City of Dundee
BY: _____

APPLICATION	See below
PERMIT	
TRANSFER	

CASH: ☐ CHECK: ☒ 9693 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$1,250.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES	\$
OTHER: (IDENTIFY)	\$
0243 VS Lease	
0244 Muni Water Mgmt. Plan	
0245 Cons. Water	

4270 WRD OPERATING ACCT

MISCELLANEOUS	\$ 589.51 - \$ 250.00	614070 - \$ 250.00
0407 COPY & TAPE FEES	\$ 633.1 - \$ 250.00	
0410 RESEARCH FEES	\$ 1256.8 - \$ 250.00	
0408 MISC REVENUE: (IDENTIFY)		
TC162 DEPOSIT LIAB. (IDENTIFY)		
0240 EXTENSION OF TIME		\$ 1250.00
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 (FWWRD)		\$
0231 HYDRO LICENSE FEE (FWWRD)		\$
HYDRO APPLICATION		\$

TREASURY OTHER / RDX

FUND _____ TITLE _____

wr_id	wr_fam_id	type	status	stage	snp	status	curr view
23328	23328	GW	NC	CM		AC	1

Redrill Logid	Compl_Depth	Type Work	Compl Date	Correlated By	Comment
YAMH	1656	ORIGINAL HOLE		KCW	

Date	Status	Method	MP hgt	Rpt WL	Ex WL Measured by	Source Organiz	Source OWRD	Comments
12/17/1991	UNKNOWN	REPORTED		8.0	8 DRILLER	OWRD	WELL LOG	
					-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-

wr_id	wr_fam_id	type	status	stage	snp	status	curr view
23328	23328	GW	NC	CM		AC	1

Redrill Logid	Compl_Depth	Type	Work	Compl Date	Correlated By	Comment
YAMH	1659		ORIGINAL HOLE		KCW	

Date	Status	Method	MP hgt	Rpt WL	Ex WL	Measured by	Source Organiz	Source OWRD	Comments
2/11/1992	UNKNOWN	REPORTED		1.0	1	DRILLER	OWRD	WELL LOG	
					-		-	-	.
					-		-	-	.
					-		-	-	.
					-		-	-	.

wr_id	wr_fam_id	type	status	stage	snp status	curr view
23328	23328	GW	NC	CM	AC	1

Redrill Logid	Compl_Depth	Type Work	Compl Date	Correlated By	Comment
YAMH	1658	ORIGINAL HOLE		KCW	

Date	Status	Method	MP hgt	Rpt WL	Ex WL	Measured by	Source	Organiz	Source OWRD	Comments
1/28/1992	UNKNOWN	REPORTED		41.0	41	DRILLER		OWRD	WELL LOG	
						.		-	-	.
						.		-	-	.
						.		-	-	.
						.		-	-	.

NUMBER 88586

Check 100⁰⁰ NO Cash

 Surface Application

 Reservoir Application

 Ground Water Application

 Transfer Application

 Power Claim

 Hydroelectric Examination

 Hydroelectric License

 Copying *To: Tom*

 Assignment *Shook*

 Extension of Time

 Other

 P-6

 Quadrangle

 Basin

 Protest

 Constructors Examination

 Constructors License

 Adjudication

~~Keith~~ KUENZI

WESTCH
ENGA
DUNDEG

CITY OF
DUNDEG



3421 25TH ST

SALE 97302 ←

Send copy TO



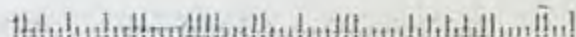
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25th St. S.E.
Salem, Oregon 97302



SALEM OR 97301 2017 02/16/94

ED GABRIEL
WATER RESOURCES DEPARTMENT
3850 PORTLAND ROAD NE
SALEM, OR 97310

97310-0702





WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS
3421 25th St. S.E.
Salem, Oregon 97302



MR. ADAM SUSSMAN
WATER RESOURCES — WATER RIGHTS SECTION
158 12TH STREET SE
SALEM, OR 97310

97310-0705





WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

DENNY MUCHMORE
PROJECT ENGINEER

3421 25th St. S.E.
Salem, Oregon 97302
(503) 585-2474

Portland (503) 684-9226
Eugene (503) 485-4454
Fax (503) 585-3986

7/1/03 Lisa

Application No. **G12568**
Permit No. **G12685**

CITY OF DUNDEE

Name ... PO BOX 220

Address DUNDEE, OR 97115

Assigned

Address

Beginning construction AUG 21 1997

Completion of construction OCT 1 98

Extended to

OCT 01 1999

Complete application of water

Extended to

13265

WESTECH ENGINEERING, INC. • SALEM, OREGON 97302

DATE	INVOICE NO.	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
8/19/96		WATER RIGHTS RECORDING FEE APPLICATION G-12568 WELL 8, 9 & 10 CITY OF DUNDEE JO 441.100.0	RECEIVED AUG 19 1996 WATER RESOURCES DEPT. SALEM, OREGON		\$150.00
CHECK DATE	8/19/96	CHECK NUMBER	13265	TOTALS	\$150.00

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **5576**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: Westech 6 ng
BY: _____

APPLICATION	<u>572508</u>
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 96-8 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 150.20

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) _____

\$

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)

\$

HYDRO APPLICATION

\$

RECEIPT # **5576**

DATED

8/20/96

BY

FLO L

Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-12568

ROUTED TO: WR

TOWNSHIP/

RANGE-SECTION: 35/3W - 27

APPLICATION ACCEPTED? ☐ yes ☐ no

CONDITIONS ATTACHED? ☐ yes ☒ no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Dan Miller

TO: Water Rights Section

7/16, 1991

FROM: Groundwater/Hydrology Section

Mayer
Reviewer's Name

SUBJECT: Application G- 12568

PER THE Willamette Basin rules, one or more of the proposed POA's is within _____ mile of a surface water source and taps a groundwater source hydraulically connected to the surface water.

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

- a. _____ will, or } have the potential for substantial interference with the nearest surface water
- b. _____ will not } source, namely Harvey Creek; or
- c. ☒ will, if properly conditioned, adequately protect the surface water from interference:
 - i. _____ The permit should contain condition #(s) _____;
 - ii. ☒ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. _____ The permit should be conditioned as indicated in item 4 below; or
- d. _____ will, with well reconstruction, adequately protect the surface water from substantial interference.

BASED UPON available data, I have determined that groundwater for the proposed use

- a. _____ will, or }
- b. _____ will not } likely be available in the amounts requested without injury to prior rights; or
- c. _____ can, if properly conditioned, avoid injury to existing rights or to the groundwater resource;
 - i. _____ The permit should contain condition #(s) _____;
 - ii. _____ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. _____ The permit should be conditioned as indicated in item 4 below.

- 4. a. _____ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
- b. _____ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
- c. _____ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
- d. _____ Well reconstruction is necessary to accomplish one or more of the above conditions.
- e. _____ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: When constructing well, only the CRB aquifer can be utilized and only if the aquifer is confined, otherwise, the well next to Harvey Creek in section 27, needs to be treated as surface water.

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:

- a. ☐ review of the well log;
- b. ☐ field inspection by _____;
- c. ☐ report of CWRE _____;
- d. ☐ other: (specify) _____

THE WELL construction deficiency:

- a. ☐ constitutes a health threat under Division 200 rules;
- b. ☐ commingles water from more than one groundwater reservoir;
- c. ☐ permits the loss of artesian head;
- d. ☐ permits the de-watering of one or more groundwater reservoirs;
- e. ☐ other: (specify) _____

THE WELL construction deficiency is described as follows: _____

3. THE WELL
- a. ☐ was, or ☐ was not } constructed according to the standards in effect at the time of original construction or most recent modification.
 - c. ☐ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- a. ☐ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- b. ☐ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- c. ☐ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit.

_____, 1991.

(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 1991.

(Signature)

(WRFORM8\91)

Water Resources Department

MEMO

March 14, 1996

TO Application G- 12568

FROM GW: Don Mill
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ Yes

☒ No

The source of appropriation is within or above a Scenic Waterway.

☐ Yes

☒ No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

☒

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water 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.

FLOW REDUCTION: (To be filled out only if Preponderance of Evidence box is not checked)

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

12568

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE # G-12568

ROUTED TO: WR

TOWNSHIP/

RANGE-SECTION: 35/36-27

APPLICATION ACCEPTED? ☐ yes ☐ no

CONDITIONS ATTACHED? ☐ yes ☒ no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Dan M. [Signature]

M: Groundwater/Hydrology Section

meyer

Reviewer's Name

JECT: Application G- 12568

PER THE Willamette Basin rules, one or more of the proposed POA's is within _____ mile of a surface water source and taps a groundwater source hydraulically connected to the surface water.

N/A

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

- a. _____ will, or } have the potential for substantial interference with the nearest surface water
- b. _____ will not } source, namely Harvey Creek; or
- c. ☒ will, if properly conditioned, adequately protect the surface water from interference:
 - i. _____ The permit should contain condition #(s) _____;
 - ii. ☒ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. _____ The permit should be conditioned as indicated in item 4 below; or
- d. _____ will, with well reconstruction, adequately protect the surface water from substantial interference.

BASED UPON available data, I have determined that groundwater for the proposed use

- a. _____ will, or }
- b. _____ will not } likely be available in the amounts requested without injury to prior rights; or
- c. _____ can, if properly conditioned, avoid injury to existing rights or to the groundwater resource;
 - i. _____ The permit should contain condition #(s) _____;
 - ii. _____ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. _____ The permit should be conditioned as indicated in item 4 below.

- a. _____ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
- b. _____ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
- c. _____ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
- d. _____ Well reconstruction is necessary to accomplish one or more of the above conditions.
- e. _____ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: When constructing well, only the CRB aquifer can be utilized and only if the CRB aquifer is confined - otherwise, the well (#3, ?) need to be treated as surface water.

G-12568

STATE OF OREGON
WATER RESOURCES DEPARTMENT

INTEROFFICE MEMO

TO: FILE G-12 568

DATE: 9/9 -91

FROM: SARAH C MEYER

SUBJECT: SURFACE/GROUND WATER CONSIDERATIONS

The applicant seeks 1.78 cfs from three wells for municipal use in the
Chehalam Creek Basin.

Per Division 9

T3S/R3W Sec 34, 35, 36
27, 35, 25

FACTS

The well locations and aquifer display the following:

1) Well #1 is located 100' from Harvey Creek. Well #2 is located 4000' from Harvey Creek. Well #3 is located 2050' from Hess Creek.

2) Well #1 is deep, well #2 is deep and well #3 is deep and they all develop water from see below layers. The well log is in the file.

3) The static water level for the well #1 was on , well #2 was on and well #3 was on .

4) The approximate elevations for wells #1, #2, #3, and the river are , , , and .

5) Pump tests on the wells gave gpm with drawdown in hours for well #1, gpm with drawdown in hours for well #2, and gpm with drawdown in hours for well #3.

CONCLUSIONS

1) The head of the wells are then the head in the stream indicating a standing than the stream reach.

2) The wells develop water from CRB, Willamette Silt, Marine Seds.

3) Based on requested rate, heads, distances, general geologic environment and logged materials, I conclude that the alluvial aquifer is confined, hydraulically connected to the above mentioned stream and the potential to cause substantial interference.

Willamette Silt
line Sed
RAS
CRB
#1 150 gpm (#3)
#2 150 gpm (#2)
#3 500 gpm (#1)
probably
#1's on
the map

wells have
not been
constructed.

State of Oregon
Water Resources Department

Interoffice Memorandum

February 9, 2006

To: Water Rights File G-12568
From: Ground Water Hydrology Section (Sabrina White)
Subject: Status of wells listed as POAs on Permit G-12685

Summary:

Original Application

App #	Permit #	Well Log	Owner's Well Name
G-12568	G-12685	YAMH 1656	WELL 8
		YAMH 1659	WELL 9, FIRST STREET
		YAMH 1658	WELL 10, ALDER STREET

RECEIVED

JUN 7 1931

WATER RESOURCES DEPT.
SALEM, OREGON



T. 3 S.

APPLICATION MAP

Application No. 122655
Permit No. 122655

T. 3 S., R. 3 W. SEC. 25, 26, & 27

NEW WELL LOCATION
(WELL NO. 7A)

NEW WELL LOCATION
(FIRST ST. WELL)

NEW WELL LOCATION
(ALDER ST. WELL)

CITY
OF
Dundee

SERVICE
BOUNDARY

NOTE: MAP IS FOR THE INTENDED PURPOSE OF
A WATER RIGHT APPLICATION AND DOES NOT INTEND
TO DIMENSION PROPERTY OR OWNERSHIP LINES.

0 1/4 1/2 MILE
0 1320 2640 FEET

SCALE



R. 2 W.

RECEIVED

JUN 7 1991

WATER RESOURCES DEPT.
SALEM, OREGON



T. 3 S.

APPLICATION MAP

Application No. 6-2548

Permit No. 1405

T.3 S., R.3 W. SEC.25, 26, & 27

NEW WELL LOCATION
(WELL NO.7A)

NEW WELL LOCATION
(FIRST ST. WELL)

NEW WELL LOCATION
(ALDER ST. WELL)

CITY
OF
Dundee

SERVICE
BOUNDARY

NOTE: MAP IS FOR THE INTENDED PURPOSE OF
A WATER RIGHT APPLICATION AND DOES NOT INTEND
TO DIMENSION PROPERTY OR OWNERSHIP LINES.



R. 2 W.

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **71991**

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

INVOICE # _____

RECEIVED FROM: City of Dundee
BY: _____

APPLICATION	<u>See below</u>
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 9693 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$1,250.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES		\$
OTHER: (IDENTIFY)		\$

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

4270 WRD OPERATING ACCT

MISCELLANEOUS	<u>58951</u>	- \$	<u>250.00</u>		
0407 COPY & TAPE FEES	<u>6331</u>	- \$	<u>250.00</u>		
0410 RESEARCH FEES	<u>12568</u>	- \$	<u>250.00</u>		
0408 MISC REVENUE: (IDENTIFY)					
TC162 DEPOSIT LIAB. (IDENTIFY)					
0240 EXTENSION OF TIME					\$1250.00
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: **71991**

DATED: 12/27/04 BY: L. Albin

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



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

OCT 06 1999

WATER RESOURCES DEPT.
SALEM, OREGON

October 4, 1999

Mr. Dallas Miller
Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97310-0210

RE: Dundee Water Right, File G-12568, Permit G-12685 (Well 8, 9 & 10)
J.O. 441.102.0

Dear Mr. Miller:

This letter is to confirm our conversations of this morning regarding the Application for Extension of Time for the above referenced water right for Well No. 8, 9 & 10 in the City of Dundee.

You indicated that the current rules allow municipalities to defer the submittal of an extension request until July 1, 2001. The City has requested that we inform you that they will take advantage of this deferral period.

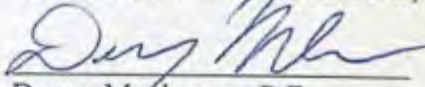
Per our conversations, we understand that the City will be notified in writing before any final action is taken on modification or cancellation of this permit due to changes to rules governing extensions, changes in deadlines, need for additional submittals, etc.

We appreciate your help and clarification on these matters.

If you have any questions or need additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.


Denny Muchmore, P.E.

drm

cc: Mr. Alan Mustain, Dundee Public Works



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

CITY OF DUNDEE
PO BOX 220
DUNDEE OR 97115

REFERENCE: Permit #G12685 (App File #G12568) 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.

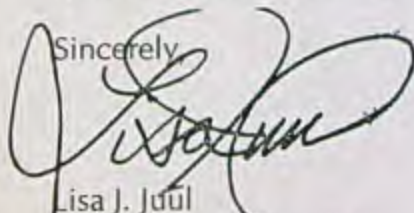
4. **Permit is Not Needed and Wish to Authorize Cancellation**

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 #G12568 (Permit #G12685)

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

Permit Holder: CITY OF DUNDEE

Permit #G12685

Application File #G12568

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

Application S-80555

COPY CHECK-OFF SHEET FOR PROPOSED FINAL ORDERS

CC: FILE # G-12568

WATERMASTER # 16

REGIONAL MANAGER: NWR

ODF&W - Yamhill County:

CWRE (if agent):

DEQ

OTHER STATE AGENCY IF NECESSARY:

DIVISION 33 LIST: COLUMBIA RIVER INTERTRIBAL FISH COMMISSION; U.S. FISH & WILDLIFE;
(CHECK ONLY IF APPLICABLE) NORTHWEST POWER PLANNING COUNCIL & NATIONAL MARINE FISHERIES

POWER BUILDER UPDATER; FRONT COUNTER

OTHER ADDRESSES OF PEOPLE WHO PAID THE \$10 FEE:

PEOPLE WITH OBJECTIONS, COMMENTS OR REQUESTED COPY W/O \$10 (SEND THE \$10 LETTER):

CASEWORKER : RWK

MEMORANDUM

To: Martha Date: August 13, 1996
From: Adam Sussman
Re: Issuance of Final Order for Application G-12568 submitted
by City of Dundee

Application History

On June 7, 1991, the City of Dundee submitted an application to the Department for the use of 1.78 cfs from three wells for Municipal Use. The three wells are in the Chehalem Creek Basin in Yamhill County. On September 22, 1993, the Department issued a Satisfactory Technical review of the proposed use. On November 29, 1993, an objection was submitted by WaterWatch. The Department denied the WaterWatch objection March 10, 1994. On April 13, 1994, WaterWatch submitted a protest on the denial of their objections.

Assessment

The protest submitted by WaterWatch reiterates the issues raised in the "denied" objections and specifically raises one concern - the lack of a water conservation element in the City's Water System Evaluation and Master Plan. To address the protest the attached permit shall contain the following new condition:

Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

In addition to adding the above condition to the Technical Review, the Department's evaluation revealed that it was necessary to clarify the aquifer authorized for use by adding the following language to the permit:

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

Also, the Technical Review did not, pursuant to the Willamette Basin Program OAR 690-502-160 (3), contain "special" resource monitoring conditions which apply to groundwater appropriations from the Columbia River Basalt Group. Those conditions are now part of the attached permit.

Conclusions

The issues raised by WaterWatch in both their objection and their protest to the Technical Review have been satisfactorily addressed. The Department's review of the application uncovered deficiencies which have been addressed.

The City of Dundee through their Water System Evaluation and Master Plan has demonstrated a need for the requested water.

The public interest presumption has not been overcome by a preponderance of evidence that the proposed use, as conditioned on the attached permit would not ensure the preservation of the public welfare, safety and health.

Recommendation:

Issue the attached Final Order and Permit.

PFO MUNI & Q-MUNI CHECKLIST

Application #: 12568 Vol 17 Subbasin Chualar Cor & Misc

Basin: 2

WAB: _____

Township 35 Range 34 Section 1/4 1/4

- ✓ 1. Completeness checklist verified? Y ☒ N ☒ NONE IN FILE
 - ✓ a. Form M Y / N Proj peak flow 1.54 MGD Existing permitted cfs _____ Current pop 2045
 - ✓ b. \$ for public notice Y / ☒ N Project pop 3186
 - ✓ 2. Indicators that the process should not continue (ie - protest, items missing, letter to file indicating hold, other) Y / ☒ N
 - ✓ 3. Groundwater review A B ☒ C D _____
 - ✓ a. Is second groundwater review necessary? Y ☒ N ☒ reason _____
 - ✓ b. Is the well located in a groundwater limited area? Y / ☒ N
 - ✓ 4. SWW Y / ☒ N Triage Y / ☒ N conditions/restrictions Y / N _____
 - ✓ 5. Basin Program limitations? Y / ☒ N _____
 - ✓ 6. Withdrawn? Y / ☒ N season allowed _____
 - ✓ 7. Basin Maps have been checked. Y ☒ N ☒ The River Mile is _____
 - ✓ 8. Water Availability (50% < July 17, 1992 OR 80% [50% storage] > July 17, 1992) ☒ NA
 - a. Notify Ken Stahr Y / N (Q, Duty, or Season) _____
 - ✓ 9. Rate/Duty/Season 1.78
 - ✓ 10. Use MUNI Period of Allowed Use Yr Rwd
 - ✓ 11. Priority Date(s) 6/7/91 TR / IR mail date 9/22/93 (11/29/93)
 - ✓ 12. B.O.R. project Y / ☒ N contract # _____
 - ✓ 13. TMDL Basin? Y / ☒ N (Tualatin, Yamhill, Pudding) DIVISION 33 Y / ☒ N (Abv Bonn > July 17, 92 //// Blw Bonn > April 18, 94 or June 3, 94)
 - ✓ 14. Objections? ☒ Y ☒ N WW PFO different from IR/TR Y / N _____
 - ✓ 15. Conditions (from IR/TR/ or Additional) ☒ Y / ☒ N (macro series 4 - 7) 71, ONLY FROM CONFINED COLUMN RIV BAS
 - ✓ a. Conplan Y / ☒ N Y 1XR
 - ✓ 16. Land use approval ☒ OK'd ☒ needs approval ☒ county notified ☒ NA
 - ✓ 17. SIZE Small (<0.1cfs, <9.2AF), Medium (>0.1 or <1.5cfs, >9.2 or <100AF) ☒ Large (>1.5 cfs, >100 AF)?
 - ✓ 18. Watermaster Dist: (1 2 ☒ 18 - ☒ NWR) (3 4 5 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (14 15 19 - SWR)
- #'s of deficiencies above 16, 15
- EASEMENTS

Name: RWK

Date: 5/20/96

save to m:\t\pfo\done\week# \app#.w51

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12568

Draft

Final

585-3986

Application History

On June 7, 1991, CITY OF DUNDEE submitted the application to the Department for the following water

on to the

- Amount of Water: 1.78 CUBIC
- Use of Water: MUNICIPAL USE
- Source of Water: THREE WELLS
- Area of Proposed Use: Yamhill County, SECTION 26, SECTION 35, SECTION 36, TO

FAXED
8/8/94

BASIN
TION 25, SECTION
3 3 WEST, W.M.

The Department mailed the applicant notice of its Satisfactory Technical Review September 22, 1993. The Technical Review determined that 1.78 CFS for MUNICIPAL USE is allowed year round. The 60-day objection period closed November 29, 1993. On November 29, 1993 an objection was submitted by WaterWatch. The Department denied the WaterWatch objection March 10, 1994. On April 13, 1994, WaterWatch submitted a protest on the denial of their objections.

Assessment

1. In proceeding with the evaluation of Application G-12568 the Department has determined that the findings of the Technical Review require modification.

2. The following sources of information were relevant in the Department's continued evaluation of Application G-12568:

- comments by or consultation with another state agency
- the Willamette Basin Program
- the Yamhill County comprehensive plan
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of record
- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any comments received
- protests received

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12568

Draft

Final Order

Application History

On June 7, 1991, CITY OF DUNDEE submitted an application to the Department for the following water use permit:

- Amount of Water: 1.78 CUBIC FEET PER SECOND
- Use of Water: MUNICIPAL USE
- Source of Water: THREE WELLS IN CHEHALEM CREEK BASIN
- Area of Proposed Use: Yamhill County within SECTION 25, SECTION 26, SECTION 35, SECTION 36, TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

The Department mailed the applicant notice of its Satisfactory Technical Review September 22, 1993. The Technical Review determined that 1.78 CFS for MUNICIPAL USE is allowed year round. The 60-day objection period closed November 29, 1993. On November 29, 1993 an objection was submitted by WaterWatch. The Department denied the WaterWatch objection March 10, 1994. On April 13, 1994, WaterWatch submitted a protest on the denial of their objections.

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- comments by or consultation with another state agency
- the Willamette Basin Program
- the Yamhill County comprehensive plan
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of record
- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any comments received
- protests received

3) As a result of the Department's continued evaluation of the application and evaluation of the protest and comments submitted the Department has made the following findings:

a. Water Conservation

The protestant asserts that the Water System Evaluation and Master Plan for the City of Dundee makes no reference to water conservation or water conservation planning.

To address the protest the attached permit shall contain the following new condition:

Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

b. Additional Resource Protection Conditions

To prevent the potential for substantial interference with surface water the Technical Review, issued September 22, 1993, proposed a condition requiring that water be developed from the Columbia River Basalts. Upon further evaluation of application G-12568 the Department finds that the following conditions and modifications are necessary to clarify the findings of the Technical Review and to protect the resource and the public interest.

To clarify which aquifer is authorized for use, the attached permit shall contain the following condition:

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

Pursuant to the Willamette Basin Program OAR 690-502-160 (3), ground water appropriations from the Columbia River Basalt Group are subject to special conditions. The attached permit shall contain the following required resource protection conditions:

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

(a) An average water level decline of three or more feet per year for five consecutive years; or

(b) A total water level decline of fifteen or more feet; or

(c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

(2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.

(3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

(a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.

(b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.

(c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

The Willamette Basin Program allows MUNICIPAL USE

THREE WELLS IN CHEHALEM CREEK BASIN are not within or above a State Scenic Waterway.

Water is available for the proposed use year-round.

The Department finds that no more than 1.78 cfs would be necessary for the proposed use. The amount of water requested, 1.78 CUBIC FEET PER SECOND, is allowable.

The Department determined, based upon OAR 690-09, that the proposed groundwater use will, if properly conditioned, adequately protect the surface water from interference.

The Groundwater Section finds that there is NOT a preponderance of evidence that the proposed use of groundwater 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.

Yamhill County Planning Department staff completed the Department's Land Use Information Form and indicated thereon that the land use associated with the proposed use is compatible with the Yamhill County Comprehensive Land Use Plan.

The City of Dundee through their Water System Evaluation and Master Plan has demonstrated a need for the requested water.

The proposed use would not conflict with existing water rights, and, if exercised in accordance with law, rule, and the proposed conditions would not result in injury to existing water users.

The proposed use complies with all other rules of the Commission.

A timely protest to the Technical Review was submitted by WaterWatch of Oregon. Upon review of the protest the Director finds that there are not significant disputes related to the proposed use of water.

The applicant did not request a contested case hearing.

Pursuant to Chapter 416, Oregon laws, 1995, enacted by the 68th Oregon Legislative Assembly, and given the findings listed above, a rebuttable presumption has been established that the use will ensure the preservation of the public welfare, safety and health if exercised in the manner described in the attached permit.

The presumption has not been overcome by a preponderance of evidence that the proposed use, as conditioned herein, would not ensure the preservation of the public welfare, safety and health.

Therefore, the proposed use, as conditioned, and described in the attached permit, will ensure the preservation of the public welfare, safety and health.

Conclusions of Law

Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.

The proposed use requested in this application is allowed in the Willamette Basin Plan.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water is available for the proposed use.

The proposed use will not injure other water rights.

The proposed use complies with rules of the Water Resources Commission.

The proposed use complies with the State Agency Agreement for land use.

For these reasons, the required presumption has been established.

In this application, all criteria for establishing the presumption have been satisfied, as noted above. The presumption has not been overcome by a preponderance of evidence that the use would not ensure the preservation of the public welfare, safety and health.

The Department therefore concludes that water is available in the amount necessary for the proposed use; the proposed use will not result in injury to existing water rights; and the proposed use would ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Order

IT IS ORDERED that application G-12568 is approved with the above modifications to the Technical Review, and Permit Number G-12685 is issued as limited by the conditions set forth in the attached permit.

DATED August , 1996

Martha O. Pagel
Director



Draft

Hearing and Appeal Rights

Under the provisions of ORS 537.170, the applicant may request a contested case hearing by submitting the information required for a protest under ORS 527.153(6) to the Department within 14 days after the date of mailing of this order as shown below. If a contested case hearing is requested, the Department must schedule one. In the contested case hearing, however, only those issues based on the above modifications to the proposed final order may be addressed.

Under the provisions of ORS 183.484, the applicant or any person having standing may appeal this order by filing a petition for review in the Circuit Court for Marion County or the circuit court for the county in which the applicant resides or has a principal business office. The petition for review must be filed within 60 days after the date this order is served.

STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined.

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays:

(a) An average water level decline of three or more feet per year for five consecutive years; or

(b) A total water level decline of fifteen or more feet; or

(c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights.

(2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year.

(3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

(a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department.

(b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31.

(c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

STANDARD CONDITIONS

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

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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

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

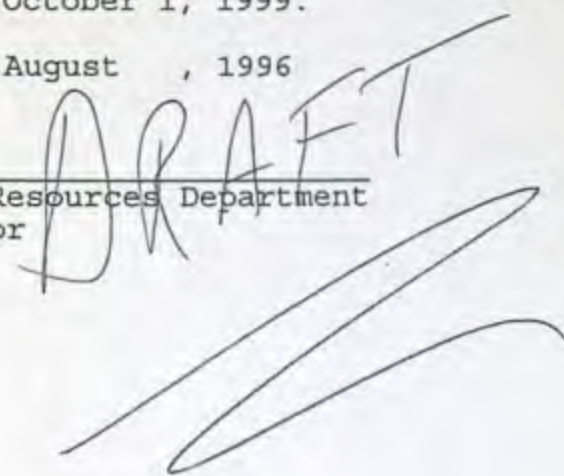
By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued August , 1996


Water Resources Department
Director



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

JUL 25 1996

WATER RESOURCES DEPT.
SALEM, OREGON

July 24, 1996

TELEFAX (503) 378-8130

Mr. Adam Sussman
Water Rights Section
Water Resources Department
158 12th Street NE
Salem, OR 97310-0210

RE: Waterrights Information, Dundee Wells 8, 9, 10, 11 & 12
Waterrights Application G-12568, G-14066, G-14070
JO 441.100.0

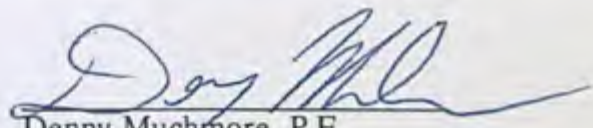
Dear Mr. Sussman:

Enclosed please find the affidavit of publication for the required public notice which was published on a weekly basis in the Newberg Graphic. Per our discussions, this should complete the submittal requirements for Application G-12568 (Well 8, 9 & 10).

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.


Denny Muchmore, P.E.

drm
encl.

cc w/enclosure:

- ▶ Ms. Pat Auld, Dundee City Recorder
- ▶ Mr. John Bassani, Dundee Public Works

RECEIVED

JUL 25 1996

WATER RESOURCES DEPT.
SALEM, OREGONTHE
GRAPHIC

LEGAL/PUBLIC NOTICE INVOICE

JULY 17, 1996
DATE

NUMBER

AFFIDAVIT OF PUBLICATION
STATE OF OREGON, COUNTY OF YAMHILL

I, David Thouvenel
being first duly sworn, depose and say that
I am the Publisher of the
GRAPHIC, a newspaper of
general circulation as defined by
ORS 193.010 and 193.020; printed and
published at Newberg, in the aforesaid
County and State; that the

Legal Ad
Water Study

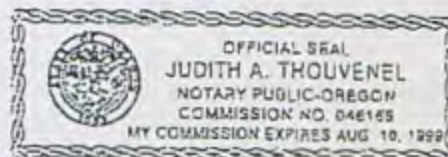
a printed copy of which is
hereto annexed, was published
in the entire issue of said
newspaper for three
consecutive weeks in insertions
in the following issues:

JUL 13, 1996
JUL 13, 1996
JUL 15, 1996

David Thouvenel
David Thouvenel

Subscribed and sworn to before me
this 17 day of
July, 1996

Judith A. Thouvenel
Notarial Officer



Post-It® Fax Note	7671	Deliv	7/24	# of pages	1
To	Denny W	From			
Co./Dept	Westech	Co.	City of Dundee		
Phone #		Phone #			
Fax #		Fax #			

No. PR96-082

NOTICE TO INTERESTED PERSONS

Notice is hereby given that the under-
signed has been appointed and has
qualified as the personal representative
of the estate. All persons having claims
against the estate are hereby required to

On 07-27-96 (2 p.m.) a public sale will
be held at Hurl Brothers Storage (Moe
Rental, Newberg) 408 W. First St.,
Newberg, OR. Bids will be taken at this
time for total contents of unit(s):

Sam Jones #36
9550 S.W. Washington #11

Personal Representative
Address: PO Box 34
St. Paul, OR 97137

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

No. PR 96-039

NOTICE TO INTERESTED PERSONS

Notice is hereby given that the undersigned has been appointed and has qualified as the personal representative of the estate. All persons having claims against the estate are hereby required to present their claims, with proper vouchers, within four months after the date of first publication of this notice, as stated below, to the personal representative at 501 E. First Street, Newberg, Oregon 97132, or the claims may be barred.

All persons whose rights may be affected by the proceedings in this estate may obtain additional information from the records of the court, the personal representative, or the attorney for the personal representative.

Dated and first published July 3, 1996.

DIANE M. WALTON
Personal Representative
P.O. Box 174
Gaston, OR 97119

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

Date of First Publication: July 3, 1996
Date of Last Publication: June 17, 1996

STATE OF OREGON
WATER RESOURCES DEPARTMENT
PUBLIC NOTICE OF WATER USE
REQUESTS

Regarding Application G-12568,
G-14066, G-14070

The Oregon Water Resources Department is evaluating the requests by the City of Dundee to use 799, 225, and 225 gallons per minute of the waters of 3, 1 and 1 wells respectively for municipal purposes. The proposed place of use is located within Yamhill County, Township 3 South, Range 3 West, W.M. This process is to determine if the request is in compliance with state water laws and regulations. Public participation and comment is encouraged.

ORS 537.130(3) requires notice to all affected landowners and ORS 537.130 (4) allows the Department to make this notice through publication in a local newspaper if there are more than 25 landowners involved.

For further information contact the Water Resources Department Water Rights Information Group at 1 (800) 624-3199 ext. 499. Written requests may be addressed to the Oregon Water Resources Department at 158 12th St. NE Salem, Oregon 97310-0210.

Date of First Publication: July 3, 1996
Date of Last Publication: July 17, 1996

IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL

Department of Probate

In The Matter of the Estate of
AGNES E. HALVORSON,
Deceased.
No. PR96-082

NOTICE TO INTERESTED PERSONS

Notice is hereby given that the undersigned has been appointed and has qualified as the personal representative of the estate. All persons having claims against the estate are hereby required to present their claims, with proper vouchers, within four months after the date of

sentative, or the attorney for the personal representative.

Dated and first published July 13, 1996.

CHARLES H. HALVORSON
Personal Representative
Address: 15565 SW Roshak Rd.
Tigard, OR 97224

ALLYN E. BROWN
Attorney for Estate

501

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Agnes E.

Halvorson,

deceased.

No.

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96-082

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All

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Post-it® Fax Note 7671

To: Denny
Co./Dept.
Phone #
Fax #

Date
From
Co.
Phone #
Fax #

following land use action.

PUBLIC HEARING:

APPLICANT: City of Newberg
REQUEST: Amendments to the Newberg Development Code and Comprehensive Plan documents and maps for the purpose of adopting regulations relating to stream corridor delineation, exceptions and standards.
FILE NO: CPA-1-95
CRITERIA: Newberg Development Code 10.20.030

TESTIMONY PROCEDURE

Persons wishing to speak for or against the above proposal may do so in person or by attorney at the time and place stated above. Also, written testimony will be received prior to the hearing at 414 E. First Street, Newberg, Oregon. Failure to raise an issue at the local level may preclude the ability to appeal to the Oregon State Land Use Board of Appeals. A staff report relating to the proposal will be available at no cost seven (7) days prior to the public hearing. For further information, or if you wish to review the files, contact John Knight, Planning Manager at 527-1210.

Greg Scoles,
Community Development Director

Date of Publication: July 17, 1996

NOTICE OF FORECLOSURE SALES

Misc. household furnishings, etc. will be sold at A Storage Place of Newberg, 2811 Portland Rd., Newberg, Or. 538-3030 on July 20, 1996 at 10:00 a.m.

The owner or reputed owner of the property to be sold is Kevin Green, the amount due on the lien is \$520.⁰⁰ and A Storage Place is foreclosing the lien.

The owner or reputed owner of the property to be sold is Tracy Newkirk, the amount due on the lien is \$394.⁰⁰ and A Storage Place is foreclosing the lien.

Date of First Publication: July 13, 1996
Date of Last Publication: July 17, 1996

LEGAL NOTICE
OF PUBLIC SALE

On 07-27-96 (2 p.m.) a public sale will be held at Hurl Brothers Storage (Mac Rental, Newberg) 408 W. First St., Newberg, OR. Bids will be taken at this time for total contents of unit(s):

Sam Jones #36
9550 S.W. Washington #11
Tigard, OR 97223

IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL

In The Matter of the Estate of
OMAR V. ANDERSON,
Deceased.
No. PR96-067

NOTICE TO INTERESTED PERSONS

NOTICE IS HEREBY GIVEN THAT THE

be affected by the proceedings in the
NOTICE THAT additional information may be obtained from the records of the court, the personal representative, or Michael G. Gunn, Attorney for the personal representative at 201-B N. Meridian St. P.O. Box 1046, Newberg, OR 97132.

Orpha McDjarmid
Personal Representative

PERSONAL REPRESENTATIVE
18958 Lake Terrace Way
Yorba Linda, CA 92686
(714) 528-3482

ATTORNEY FOR PERSONAL REPRESENTATIVE
MICHAEL G. GUNN
201-B N. Meridian St., P.O. Box 1046
Newberg, OR 97132
503-538-8318

Date of First Publication: July 17, 1996
Date of Last Publication: July 31, 1996

IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL
Department of Probate

In The Matter of the Estate of
JOSEPH A. MORALES,
Deceased.

No. PR 96-049

NOTICE TO INTERESTED PERSONS

Notice is hereby given that the undersigned has been appointed and has qualified as the personal representative of the estate. All persons having claims against the estate are hereby required to present their claims, with proper vouchers, within four months after the date of first publication of this notice, as stated below, to the personal representative at 501 E. First Street, Newberg, Oregon 97132, or the claims may be barred.

All persons whose rights may be affected by the proceedings in this estate may obtain additional information from the records of the court, the personal representative, or the attorney for the personal representative.

Dated and first published May 29, 1996.

ROSALINDA SIMENTAL
Personal Representative
Address: PO Box 34
St. Paul, OR 97137

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

Date of First Publication: May 29, 1996
Date of Last Publication: July 17, 1996

WATER RESOURCES DEPT.
SALEM, OREGON

JUL 25 1996

RECEIVED



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

July 24, 1996

TELEFAX (503) 378-8130

Mr. Adam Sussman
Water Rights Section
Water Resources Department
158 12th Street NE
Salem, OR 97310-0210

RE: Waterrights Information, Dundee Wells 8, 9, 10, 11 & 12
Waterrights Application G-12568, G-14066, G-14070
JO 441.100.0

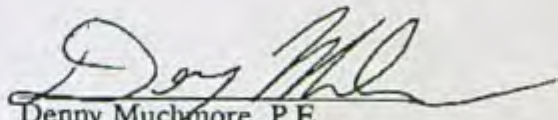
Dear Mr. Sussman:

Enclosed please find the affidavit of publication for the required public notice which was published on a weekly basis in the Newberg Graphic. Per our discussions, this should complete the submittal requirements for Application G-12568 (Well 8, 9 & 10).

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.


Denny Muchmore, P.E.

drm
encl.

cc w/enclosure:

- ▶ Ms. Pat Auld, Dundee City Recorder
- ▶ Mr. John Bassani, Dundee Public Works

AFFIDAVIT OF PUBLICATION
STATE OF OREGON, COUNTY OF YAMHILL

I, David Thouvenel
being first duly sworn, depose and say that
I am the Publisher of the
GRAPHIC, a newspaper of
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Legal Ad
Under Study

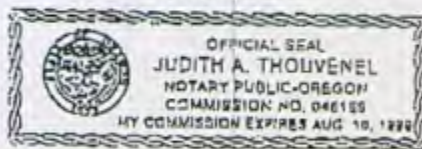
a printed copy of which is
hereto annexed, was published
in the entire issue of said
newspaper for three
consecutive weeks insertions
in the following issues:

July 3, 1996
July 13, 1996
July 17, 1996

David Thouvenel
David Thouvenel

Subscribed and sworn to before me
this 17 day of
July, 1996

Judith A. Thouvenel
Notarial Officer



THE
GRAPHIC

LEGAL/PUBLIC NOTICE INVOICE

JULY 17,
DATE 1996
NUMBER

Date	7/24/96	# of pages	1
From	City of Dundee		
To	Denny W. Weeks		
Co./Dept.	Co. Dept. of Public Works		
Phone #			
Fax #			

Post-It® Fax Note 7671

NOTICE TO INTERESTED PERSONS
Notice is hereby given that the under-
signed has been appointed and has
qualified as the personal representative
of the estate. All persons having claims
against the estate are hereby notified to

On 07-27-86 (2 p.m.) a public sale will
be held at Hurl Brothers Storage (Main
Rental, Newberg) 408 W. First St.,
Newberg, OR. Bids will be taken at this
time for total contents of unit(s):
Sam Jones #36
6950 S.W. Washington St.

Personal Representative
Address: PO Box 34
CL Paul, OR 97137
ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

No. PR 96-039

NOTICE TO INTERESTED PERSONS

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Dated and first published July 3, 1996.

DIANE M. WALTON
Personal Representative
P.O. Box 174
Gaston, OR 97119

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

Date of First Publication: July 3, 1996
Date of Last Publication: June 17, 1996

**STATE OF OREGON
WATER RESOURCES DEPARTMENT
PUBLIC NOTICE OF WATER USE
REQUESTS**

Regarding Application G-12568,
G-14065, G-14070

The Oregon Water Resources Department is evaluating the requests by the City of Dundee to use 733, 225, and 225 gallons per minute of the waters of 3, 1 and 1 wells respectively for municipal purposes. The proposed place of use is located within Yamhill County, Township 3 South, Range 3 West, W.M. This process is to determine if the request is in compliance with state water laws and regulations. Public participation and comment is encouraged.

ORS 537.130(3) requires notice to all affected landowners and ORS 537.130 (4) allows the Department to make this notice through publication in a local newspaper if there are more than 25 landowners involved.

For further information contact the Water Resources Department Water Rights Information Group at 1 (800) 524-3199 ext. 499. Written requests may be addressed to the Oregon Water Resources Department at 158 12th St. NE Salem, Oregon 97310-0210.

Date of First Publication: July 3, 1996
Date of Last Publication: July 17, 1996

**IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL**

Department of Probate

In The Matter of the Estate of
AGNESE HALVORSON,
Deceased.

No. PR96-082

NOTICE TO INTERESTED PERSONS

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first publication of this notice, as stated below, to the personal representative at 501 E. First Street, Newberg, Oregon 97132, or the claims may be barred.

Dated and first published July 13, 1996.

CHARLES H. HALVORSON
Personal Representative
Address: 15565 SW Roshak Rd.
Tigard, OR 97224

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

Post-it Fax Note 7671

Date		# of Pages	
From			
Co.			
Phone #			
Fax #			

following land use action.

PUBLIC HEARING:

APPLICANT: City of Newberg
REQUEST: Amendments to the Newberg Development Code and Comprehensive Plan documents and maps for the purpose of adopting regulations relating to stream corridor delineation, exceptions and standards.
FILE NO: CPA-1-95
CRITERIA: Newberg Development Code 10.20.030

TESTIMONY PROCEDURE

Persons wishing to speak for or against the above proposal may do so in person or by attorney at the time and place stated above. Also, written testimony will be received prior to the hearing at 414 E. First Street, Newberg, Oregon. Failure to raise an issue at the local level may preclude the ability to appeal to the Oregon State Land Use Board of Appeals. A staff report relating to the proposal will be available at no cost seven (7) days prior to the public hearing. For further information, or if you wish to review the files, contact John Knight, Planning Manager at 527-1210.

Greg Scoles,

Community Development Director

Date of Publication: July 17, 1996

NOTICE OF FORECLOSURE SALES

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The owner or reputed owner of the property to be sold is Tracy Newkirk, the amount due on the lien is \$394.00 and A Storage Place is foreclosing the lien.

Date of First Publication: July 13, 1996
Date of Last Publication: July 17, 1996

**LEGAL NOTICE
OF PUBLIC SALE**

On 07-27-96 (2 p.m.) a public sale will be held at Hurl Brothers Storage (Mac Rental, Newberg) 408 W. First St., Newberg, OR. Bids will be taken at this time for total contents of unit(s):

Sam Jones #36
9550 S.W. Washington #11
Tigard, OR 97223

**IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL**

In The Matter of the Estate of
OMAR V. ANDERSON,
Deceased.
No. PR96-057

NOTICE TO INTERESTED PERSONS

NOTICE IS HEREBY GIVEN THAT THE

Date		# of Pages	
From			
Co.			
Phone #			
Fax #			

be affected by the proceedings in the NOTICE THAT additional information may be obtained from the records of the court, the personal representative, or Michael G. Gunn, Attorney for the personal representative at 201-B N. Meridian St. P.O. Box 1046, Newberg, OR 97132.

Orpha McDiarmid
Personal Representative

PERSONAL REPRESENTATIVE
18958 Lake Terrace Way
Yorba Linda, CA 92686
(714) 528-3482

ATTORNEY FOR PERSONAL
REPRESENTATIVE
MICHAEL G. GUNN
201-B N. Meridian St., P.O. Box 1046
Newberg, OR 97132
503-538-8318

Date of First Publication: July 17, 1996
Date of Last Publication: July 31, 1996

**IN THE CIRCUIT COURT
OF THE STATE OF OREGON
FOR THE COUNTY OF YAMHILL
Department of Probate**

In The Matter of the Estate of
JOSEPH A. MORALES,
Deceased.

No. PR 96-049

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All persons whose rights may be affected by the proceedings in this estate may obtain additional information from the records of the court, the personal representative, or the attorney for the personal representative.

Dated and first published May 29, 1996.

ROSALINDA SIMENTAL
Personal Representative
Address: PO Box 34
St. Paul, OR 97137

ALLYN E. BROWN
Attorney for Estate
501 E. First St.
Newberg, OR 97132

Date of First Publication: May 29, 1996

SEPTEMBER 22, 1993

CITY OF DUNDEE
P.O. BOX 220503-538-3922
DUNDEE, OREGON 97115

Reference: File G-12568

Hello:

This letter informs you of the current status of your application for a water use permit and accompanies the Satisfactory Report of Technical Review For Water Use Permit(s). We apologize for the delay in transmitting this information and Report to you and for any inconvenience the wait may have caused you.

The enclosed Report of Technical Review is the Department's summary of a specialized analysis of various legal and scientific aspects of your application and proposed water use. We are required by the state of Oregon's administrative rules (in OAR 690-11-160) to conduct this official technical review of each application submitted to the Oregon Water Resources Department for a water use permit. This process was designed to insure that your application receives a fair evaluation and to secure protection of existing water rights and of the public at large.

AS THE RESULT OF OUR TECHNICAL EVALUATION OF YOUR APPLICATION, WE HAVE DETERMINED THAT YOUR APPLICATION SATISFIES THE REQUIREMENTS OF THE TECHNICAL REVIEW.

The Department will now move your application to the next phase of processing. This phase includes a public interest review of your proposed water use. No final action may be taken on your application until the public interest review is completed.

You should also note that the Report of Technical Review describes conditions currently anticipated which may limit the water use proposed in your application.

If you wish to object to any of the analyses contained in the Report, you must submit your objection to the Department in writing within 60 days of the date of mailing of this Report or by the date specified below. Your objection must allege that the technical review is defective and you may also submit evidence which demonstrates that your proposed water use will not impair or be detrimental to the public interest.

Copies of the Report of Technical Review will be distributed to all persons who have filed comments or otherwise expressed an interest in the water use proposed in your application. Interested parties must also submit their objections within the prescribed objection period. Those objections must allege that the technical review is defective and/or that the



proposed water use may impair or be detrimental to the public interest.

If an objection contains allegations that the technical review is defective, it must be accompanied by facts which support such allegations. If an objection contains allegations that the proposed water use may impair or be detrimental to the public interest, the objection must specify the particular public interest standards which apply as set out in Oregon Revised Statutes (ORS 537.170(5)) and Oregon Administrative Rules (OAR 690-11-195) and state facts showing how such standards would be violated.

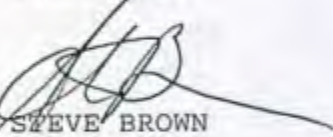
All evidence and objections must be received by our Salem office no later than 5:00 p.m. on or before NOVEMBER 29, 1993 or the Department may presume there is no opposition to any of the analyses set out in the technical review report. Evidence and objections must be addressed and delivered to: Oregon Water Resources Department, Water Rights Section, 3850 Portland Road, Northeast, Salem, Oregon 97310.

If objections and evidence are submitted on or before the above time and date, the Director of the Water Resources Department will evaluate each issue raised in the objections and either accept or deny them. Objectors are encouraged to indicate whether they would be interested in resolving their concerns through alternative dispute resolution.

If any of the objections are denied, the objector will be allowed thirty days to submit a protest to the denial. The protest must meet the standards set forth in OAR 690-02-030 through 080.

If you have any questions, please feel free to telephone me or any of the Department's Water Rights Section staff. My telephone number is 378-3739, in Salem, or you may call toll free from within the state to 1-800-624-3199.

Sincerely,



STEVE BROWN
Manager
Water Rights Division

Enclosures

Report Date: SEPT. 16, 1993

OREGON WATER RESOURCES DEPARTMENT
SATISFACTORY REPORT OF TECHNICAL REVIEW
FOR WATER USE PERMIT(S)

OBJECTIONS TO THE PROPOSED WATER USE AS DESCRIBED BELOW MUST BE RECEIVED IN WRITING BY THE OREGON WATER RESOURCES DEPARTMENT, 3850 PORTLAND ROAD N.E., SALEM, OREGON 97310, BY 5 P.M. ON OR BEFORE:
NOVEMBER 29, 1993.

1. APPLICATION FILE NUMBER - G-12568

2. MINIMUM APPLICATION INFORMATION

Applicant name/address/county/phone:

CITY OF DUNDEE
P.O. BOX 220503-538-3922
DUNDEE, OREGON 97115
YAMHILL COUNTY

Date application received for filing and/or tentative date of priority:
06/07/91

Source, tributary to: THREE WELLS in the CHEHALEM CREEK BASIN

Purpose and/or use: MUNICIPAL

Flow: 1.78 CUBIC FEET PER SECOND

Wells are located: SW 1/4 NW 1/4, SECTION 25, NW 1/4 NE 1/4, SECTION 35, NW 1/4 NE 1/4, SECTION 27, T 3 S, R 3 W, W.M.; First Street Well-1790 feet South and 795 feet East from the N 1/4 Corner of Section 25; Alder Street Well-616 feet South and 1379 feet West from the NE corner of Section 35; Well 7A-550 feet South and 1860 feet West from the NE Corner of Section 27.

Place of Use: Within the Service area for the City of Dundee

NW 1/4 NW 1/4
SW 1/4 NW 1/4
SW 1/4
SE 1/4 SE 1/4

SW 1/4 SE 1/4
SECTION 25
NE 1/4
SE 1/4 NW 1/4
NE 1/4 SW 1/4
NE 1/4 SW 1/4
SE 1/4 SW 1/4
SE 1/4
SECTION 26
N 1/2 NE 1/4
SECTION 35
NE 1/4
N 1/2 NW 1/4
SE 1/4 NW 1/4
NE 1/4 SW 1/4
N 1/2 SE 1/4
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST

S 1/2 SW 1/4
SECTION 30
NW 1/4 NW 1/4
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST

GROUNDWATER AVAILABILITY

This is an application for use of groundwater. The Groundwater/Hydrology Section report indicates that:

Pursuant to OAR 690-09-040, the proposed groundwater withdrawal will if properly conditioned, adequately protect the surface water from interference. (See proposed permit condition).

In addition, the Groundwater/Hydrology Section has reported the water is likely to be available to supply the proposed use.

SURFACE WATER AVAILABILITY

Water is likely available in excess of needs for all existing rights 50% of the time during each monthly period proposed by the technical review.

Water availability tables are available in the application file and may be reviewed in the office of the Water Resources Department in Salem.

CONFLICTS WITH OTHER WATER RIGHTS:

There are existing rights from this point of diversion. See proposed permit conditions.

There are existing water rights appurtenant to the lands described in the application. See proposed permit conditions.

REPORT CONCLUSIONS:

Water in the amount of 1.78 cfs is likely available for 12 months of the 12 months normal period of use. Therefore, the Director finds that water is available in sufficient amount and during periods which will reasonably support the proposed use.

THE PROPOSED WATER USE, AS CONDITIONED, SATISFIES THE REQUIREMENTS OF THIS TECHNICAL REVIEW.

This Report of Technical Review sets out the Director's technical analysis of the application. In addition to this technical analysis, the Director will evaluate this application to determine whether the proposed water use might impair or be detrimental to the public interest under the standards set out in ORS 537.170(5) and OAR 690-11-195. Matters relating to public interest in the proposed water use which are raised in objections will be evaluated following the 60-day objection period.

PROPOSED PERMIT CONDITIONS

Application: G-12568

The following conditions will apply to water use under the permit, and will appear in the permit, if issued.

1. Use of water under this permit is subject to all prior rights.
2. Period of allowed use: Year Round
3. Rate of use: 1.78 cfs
4. Water use development requirements:
 - A. Begin construction by (one year from issuance of permit).
 - B. Complete construction by October 1, 1996.
 - C. Completely apply the water to beneficial use by October 1, 1997.
5. Measurement, recording and reporting conditions:
 - A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
 - B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
6. Failure to comply with any of the provisions of the permit may result in action including, but not limited to, restrictions on the use, penalties, or cancellation of the permit.
7. The permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.
8. The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

9. The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times. The use of water shall be limited when it interferes with any prior surface or ground water rights.
10. Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.
11. In the event of a request for a change in point of appropriation, an additional point of appropriation or alteration of the appropriation facility associated with this authorized diversion, the quantity of water allowed herein, together with any other right, shall not exceed the capacity of the facility at the time of perfection of this right.
12. Within one year from the date the Water Resources Commission adopts rules describing the schedules, standards and procedures for water conservation management plans by water suppliers, the city shall submit a plan which is consistent with said rules.
13. Within one year of permit issuance, the city shall prepare a plan/timetable for the Water Resources Commission which shall indicate the steps which the City intends to pursue to obtain a long-term water supply. ✓
14. The use of water allowed herein is limited to the water bearing zone identified as the Columbia River Basalt Aquifer. ✓

~~Basalt conditions~~ ✓

~~Need~~

~~SWR Findings~~

~~Land Use~~ ✓

~~Water Mng & Conserv~~ ✓

June 24, 1996

Denny Muchmore
Westtech Engineering Inc.
3421 25th Street S.E.
Salem, Oregon 97302-1191

FAXED
6/24/96

RE: City of Dundee Water Right Application 12568, G-14066,
G14070.

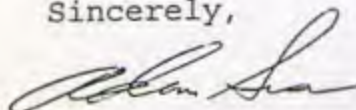
Denny:

This letter is to follow-up on our telephone conversation this morning. As we discussed, the Department is currently evaluating the protest to application G-12568. I believe most of the points raised in the protest has been resolved. In my review of the file I noted two items that must be taken care of before a permit could be issued.

- 1) Application G-12568 does not indicated whether the City owns the property where the wells are located. Please provide proof of ownership (deeds etc.) of lands owned by the City. For lands not owned by the City please provide written authorization or easement.
- 2) Application G-12568 as well as the other applications by the City "affect" a large number of people. ORS 537.130 requires notification of these affected people. When more than 25 people are affected the notice can be in the form of a newspaper publication. As we discussed, I have enclosed a draft of the type of notice the City must publish. The notice must be published once a week for three consecutive weeks in a local paper. Once publication is accomplished please provide an affidavit of publication.

If you have any questions or concerns feel free to contact me at 378-8455 ex. 262.

Sincerely,



Adam Sussman
Program Analyst, Water Rights Section

cc: Alan Mustain, City of Dundee



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

June 24, 1996

Denny Muchmore
Westtech Engineering Inc.
3421 25th Street S.E.
Salem, Oregon 97302-1191

RE: City of Dundee Water Right Applications G-12568, G-14066,
G14070.

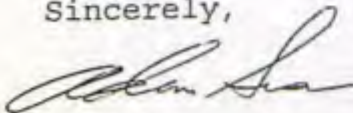
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cc: Alan Mustain, City of Dundee



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

Public Notice Advertising Request

Telephone Number: (503) 378-8455 ext. 266 Fax: 378-6203
Department: Water Resources
Division: Water Rights

Special Instructions: Run ad once per week for three consecutive weeks

Publication Information:

Run date: Next Available

Keyword:

Type of Ad: Individual Ad

Copy:
STATE OF OREGON
WATER RESOURCES DEPARTMENT
PUBLIC NOTICE OF WATER USE REQUESTS
Regarding Application G-12568, G-14066, G-14070

The Oregon Water Resources Department is evaluating the requests by City of Dundee to use 799, 225, and 225 gallons per minute of the waters of 3, 1, and 1 wells respectively for municipal purposes. The proposed place of use is located within Yamhill County, Township 3 South, Range 3 West, W.M. This process is to determine if the request is in compliance with state water laws and regulations. Public participation and comment is encouraged.

ORS 537.130 (3) requires notice to all affected landowners and ORS 537.130 (4) allows the Department to make this notice through publication in a local newspaper if there are more than 25 landowners involved.

For further information contact the Water Resources Department Water Rights Information Group at 1 (800) 624-3199 ext. 499. Written requests may be addressed to the Oregon Water Resources Department at 158 12th St NE Salem, Oregon 97310-0210

March 10, 1994

Karen Russell, Assistant Director
WaterWatch of Oregon
921 Southwest Morrison, Suite 438
Portland, OR 97205

WATER
RESOURCES
DEPARTMENT

Re: Denial of Objections to Application File Number
G-12568 for City of Dundee

Dear Ms. Russell:

The Director of the Water Resources Department has reviewed your Objections to the proposed water use reported in the Satisfactory Report of Technical Review announced on Application File Number G-12568 submitted by City of Dundee. As the result of the Director's assessment, all of the Objections submitted by WaterWatch of Oregon to this proposed use are hereby denied.

You have alleged the Technical Report is defective and the use as proposed is not in the public interest.

You have asserted the Technical Report is defective because the report fails to contain many of the elements and evaluations required in OAR 690-11-160(1).

The rules of the Water Resources Commission require that the technical review analysis include the elements contained in OAR 690-11-160(1)(a)-(h). There is no requirement that the report of technical review include those elements. In order to maintain clarity and simplicity, a number of technical review factors included in the file checklists are not contained in the reports.

A technical review report is a summary of the technical evaluation conducted on a water use application.

The Technical Review conducted on application #G-12568 did include consideration of the elements specified in OAR 690-11-160 (1) as is documented by the information contained in the records of the Department including the Application File.

Your objections include an allegation that the water availability analysis conducted on this proposed water use is flawed. You have not set forth sufficient facts to establish that the water availability analysis conducted on this application is defective.



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

WaterWatch
March 10, 1994
Application # G-12568
Page 2

The report of the Groundwater/Hydrology Section indicates that, the proposed groundwater use will, if properly conditioned, adequately protect the surface water from interference.

Your Objections include an allegation regarding the lack of sufficient measuring and reporting in the Report's Proposed Permit Conditions. Consistent with established policy, the Department requires some form of measuring and reporting condition on all permits issued. If a permit is issued on this Application it will include a sufficient measuring and reporting condition.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

You have alleged that a public interest determination is impossible because essential information appears to be missing from the File.

There is adequate information in the file to complete the public interest review without first conducting a pump test.

WaterWatch
March 10, 1994
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Page 3

You have asserted the use as proposed violates statewide policies. You have not set forth facts which establish that the proposed use violates statewide policies.

The application file contains a land use compatibility form which lists the proposed use as being allowed outright or not regulated by the comprehensive plan.

The application file also contains the "Water System Evaluation and Master Plan for City of Dundee, Oregon" which details the city's projected population growth and water requirements.

Your objection to the proposed permit condition 13 is denied. The intent of this condition is to promote the conservation of water and maximization of beneficial use in conjunction with the OAR 690-18, which promotes rather than mandates conservation.

Your objections do not meet the requirements of OAR 690-11-170 (1). The Director has determined that you have not established that the Technical Review is defective and you have not identified elements of the proposed water use that may impair or be detrimental to the public interest. You have not set forth facts which would support allegations that the proposed water use is prohibited.

You may protest this denial of your Objections. You have thirty (30) days from the date of this letter to file a protest. Your protest must comply with the standards set out in the Oregon Administrative Rules, Chapter 690, Division Two, Sections 030 through 080. (OAR 690-02-030 through 080). Send your protest by regular mail or deliver it in person.

WaterWatch

O F O R E G O N

FACSIMILE TRANSMITTAL

Date: 12/29/93

To: Water Rights

Fax Number: 1-503-378-8130

From: Karen Russell

Fax Number: 503-227-6847

Total Pages Being Sent, including this page: _____

If there are any problems receiving this transmission, please telephone WaterWatch immediately at 503-295-4039.

Re: 15-12568

Message: _____

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ADDRESS BELOW. THANK YOU.

WaterWatch

O F O R E G O N

FACSIMILE TRANSMITTAL COVER SHEET

Date: 12/29/93To: Water RightsFax Number: 1-503-378-8130From: Karen Russell

Fax Number: 503-227-6847

Total Pages Being Sent, including this page: 76

If there are any problems receiving this transmission,
please telephone WaterWatch immediately at 503-295-4039.

Re: 6-12568

Message: _____

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YOU.

WaterWatch

O F O R E G O N

By Fax and Regular Mail

November 29, 1993

Oregon Water Resources Department
Water Rights Section
3850 Portland Road NE
Salem, Oregon 97310

Re: Objection to Technical Report for:
G-12568, City of Dundee, Municipal, Harvey Creek, Willamette

WaterWatch submits the following objections pursuant to OAR 690-11-170:

◆ **The Technical Report is Defective**

The technical report fails to contain many of the elements and evaluations required in OAR 690-11-160(1).

◆ **The Water Availability Analysis in the Technical Report is Defective**

The analysis is defective for the following reasons:

- There was no analysis of water availability in the technical report as required under OAR 690-11-160(1)(f). *Not needed*
- The Department concluded that the proposed ground water use will interfere with surface waters but failed to analyze whether water was available for use from Harvey Creek and the Chehalem Creek Basin. Neither the technical report nor the application file contain any analysis of water availability.¹

¹ The analysis must take into account existing water rights of record. The analyses should take into account upstream water rights. Merely assuming the streamflow data reflects the amount of use or by using estimates of consumptive use. Both methods fail to adequately consider rights-of-record. At any given moment there may be valid, but unexercised water rights in a basin. Water users may at any time use the water to which they are legally entitled up to the limit of their rights-of-record. Failure to account for future increases in water use pursuant to rights-of-record results in an over-estimation of water availability and over-allocation of the resource. This is contrary to the statewide Water Allocation Policy. OAR 690-400-010.

Any water availability analyses must differentiate between natural flows and regulated flows (water released from upstream storage) in the Willamette River mainstem. As you

Water Resources Department

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- Failure to determine the amount of water available for this proposed use is contrary to ORS 537.620(3).

- ♦ **The Use As Proposed is Not in the Public Interest**

The proposed use fails to pass the public interest considerations in ORS 537.170, ORS 537.525 and 537.620. *See also*, OAR 690-11-195(3)(d), (4)(a), (4)(c)(A), (4)(d)(A), (4)(f).

- ♦ **A public interest determination on this groundwater application is impossible because essential information appears to be missing.**

The technical report contains a condition which requires a pump test prior to receiving a certificate. A pump test provides information relating to the extent the ground water use will interfere with surface waters and aquifer properties. This information is critical for the public interest determination and should be obtained prior to a final public interest determination. If, after this information is obtained, and the use is found to be in the public interest, then this proposed condition should be amended to require periodic pump tests during the life of these permits and certificate. The condition should not, however limit the Director's ability to require pump tests. We suggest language that would require pump tests "annually or as deemed needed by the Director."

- ♦ **Measurement and Reporting**

In general, we support the proposed measurement and reporting conditions. However, proposed condition #5 should allow the Director to require measurement and reporting of both rate and duty of water use. The proposed permit conditions restrict use based upon a specific rate. Measurement and reporting of water use is to be a useful informational and regulatory tool for the Department, it should provide the information needed to ensure that water use is within the terms of the permit.

know, there are several storage facilities in this river system which release stored water into the Willamette mainstem. Failure to differentiate between natural flows and regulated flows in the analysis overestimates the amount of natural flow available for use downstream and may result in the over-allocation of the resource. This is contrary to the statewide Water Allocation Policy. OAR 690-400-010. As a policy matter, the Department should differentiate between stored water and natural flow in it's water availability analyses for new permits and in its regulation activities on existing permits.

Water Resources Department

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♦ **The proposed use violates Oregon's statewide policies.**

Oregon's Groundwater Management Policy requires that "(i)nterference between groundwater uses and competing groundwater and surface water uses . . . be prevented and/or controlled to protect the water resource and existing rights." OAR 690-410-010(1). The Policy also requires the State to manage groundwater and surface water conjunctively in order to protect the public's interest in the water resource and existing rights. OAR 690-410-010(2)(a). In addition, Oregon's Statewide Water Allocation Policy requires that groundwater use occur within the capacity of the resource and requires the State to protect Oregon's waters from overallocation by new uses of groundwater. OAR 690-410-070(1).

Oregon statutes and rules also call for the state to "aggressively promote" water conservation and places a high priority on eliminating waste and improving the efficiency of water use. ORS 537.460(2)(a) and OAR 690-410-060(1). Proposed conditions #7 and #12 do little to further these policies. A conservation management plan should be in place prior to the issuance of this supplemental permit. This applicant has existing water rights for approximately 6.88 cfs of water. Conservation should be the first "source" of water for the City - rather than expansion into new water supplies. Given the ground water/surface water interference problem that exists for these proposed wells, the status of fish populations in the Willamette basin, the water quality problems in the Willamette mainstem it is imperative that any use allowed be held to a strict efficiency standard prior to any use under this proposed permit.

Allowing this proposed use to go forward violates all these policies. The Department's failure to manage the ground and surface waters conjunctively in the Willamette River basin will exacerbate existing overallocation problems, water quality problems, and will further impair existing surface water rights. It is bad public policy to continue issuing groundwater rights in the face of increasing doubts as to whether increased use in this area is sustainable.

♦ **Land Use Compatibility and Substantiating Need**

The technical report failed to contain an evaluation of the compatibility of this proposed use with land use plans as required under OAR 690-11-160(1)(h). There did not appear to be a land use compatibility form in the application file at the Department. The application fails to meet the requirements of the rules that require land use compatibility determination prior to issuing a permit. Thus, the WRD can not make the necessary compatibility findings to allow for issuance of this permit.

In addition, question whether the proposed use is compatible with, or contemplated by, the City's Comprehensive Land Use Plan. There was no analysis of existing population

Water Resources Department

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Page 4

size, and the projected population within the 20 year planning horizon. There was no analysis of whether the City's existing water use permits and certificates are sufficient to meet growth projections. There was also no evaluation of whether the amount of water requested is necessary to achieve the proposed water use. OAR 690-11-160(1)(g). This request for water must be based upon growth projections that are substantiated in the City's Comprehensive Plan.

It appears that the City's existing water rights are sufficient to support growth beyond that currently projected. Currently, the City has 6 certificated water rights totalling approximately 1.6 cfs. The City also has three permits totalling approximately 5.3 cfs. The City has requested extensions of time to develop two of the three permits, and is awaiting certification on the third. Altogether, the City has approximately existing certificates and permits totaling 6.88 cfs, 4 cfs of which has yet to be developed. Why hasn't the City developed its existing sources of water? It is bad public policy to be issuing an additional permit when the City has failed to develop its existing sources of water. If this proposed use is intended to be a substitute for some of these existing sources, then this applicant should be required to abandon the unused rights in exchange for the use proposed under this application.

◆ **Long Term Water Supply Planning**

Condition # 13 requires the City to, within a year of permit issuance, prepare a "plan/timetable" which will "indicate the steps which the City intends to pursue to obtain a long-term water supply." While WaterWatch supports the concept of long term water supply planning, this condition does little to further meaningful long term water supply planning. The condition is standardless. It only requires a "plan" for the "steps" that the City "intends" to pursue. This condition should require, among other things, that the City develop and implement a plan within a specified time. The condition should also include a requirement that the City consider a "no growth" alternative.

In addition, if this application is to be approved, it should be for a limited period of time. Clearly, the City's use has begun to exceed the capacity of the nearby ground and surface waters. Merely issuing another unlimited permit for additional use of the same resource does nothing to protect the resource or to achieve responsible long term water supply planning.

Water Resources Department

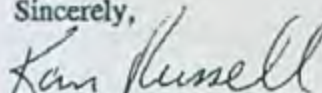
G-12568

Page 5

♦ Conclusion

We are open to discussion with the Department and the applicant on all of the issues raised in this objection letter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Karen Russell".

Karen A. Russell
Assistant Director

WaterWatch

O F O R E G O N

Delivered by Messenger

RECEIVED

APR 1994

WATER RESOURCES
SALEM, OREGON

April 13, 1994

Oregon Water Resources Department
Water Rights Section
158 12th Street NE
Salem, Oregon 97310

Re: Protest of Application:
G-12568, City of Dundee, Municipal, 1.78 cfs, Harvey Creek, Willamette River

Dear Water Rights Section:

On March 14, 1994, WaterWatch received the Department's denial of our objections to the above referenced application. The public interest and policy issues raised in WaterWatch's objections were either not addressed, or not satisfactorily addressed, by the Department's denial letter. WaterWatch files this protest pursuant to OAR 690-11-175(5) and 690-01-030 to 080.

A. Facts

The facts are as outlined in WaterWatch's objection letter of November 29, 1993 and as found in the application file. WaterWatch notes that the Water System Evaluation and Master Plan for the City of Dundee, Oregon dated April, 1993, and filed with the Department after WaterWatch's objections were filed, does not include any reference to water conservation or conservation planning. ✓

B. Relief Requested

WaterWatch requests that this application be denied as currently proposed. WaterWatch is willing to work with the applicant to try to resolve our concerns with this proposed new use.

C. Name and address of Persons having Interest in Proceeding

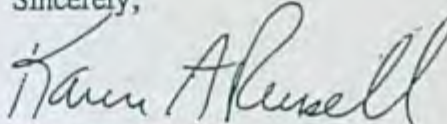
The following people are known to WaterWatch as having an interest in this proceeding:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

D. Legal Authority and Basis for Claim

The Legal Authority and Basis for the Claim are as outlined in WaterWatch's November 29, 1993 objections.

Sincerely,

A handwritten signature in cursive script, appearing to read "Karen A. Russell".

Karen A. Russell
Assistant Director

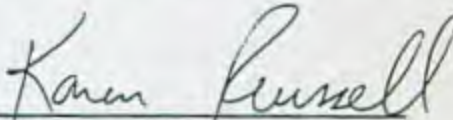
APR 1994

Certificate of Service

I certify that on this 13th day of April, 1994, a copy of WaterWatch's Protest of Application G-12568 was served on each of the following by first class mail, postage paid, in the United States Mail from Portland, Oregon, enclosed in a sealed envelope and addressed as follows:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

Signed this 13th day of April, 1994


Karen Russell

WaterWatch

O F O R E G O N

Delivered by Messenger

RECEIVED

APR 13 1994

WATER RESOURCES DEPT.
SALEM, OREGON

April 13, 1994

Oregon Water Resources Department
Water Rights Section
158 12th Street NE
Salem, Oregon 97310

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G-12568, City of Dundee, Municipal, 1.78 cfs, Harvey Creek, Willamette River

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Sincerely,



Karen A. Russell
Assistant Director

RECEIVED

APR 1 1994

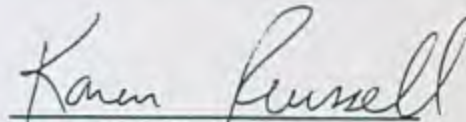
WATER RESOURCES DEPT
SALEM, OREGON

Certificate of Service

I certify that on this 13th day of April, 1994, a copy of WaterWatch's Protest of Application G-12568 was served on each of the following by first class mail, postage paid, in the United States Mail from Portland, Oregon, enclosed in a sealed envelope and addressed as follows:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

Signed this 13th day of April, 1994


Karen Russell

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APR 13 1994
WATER RESOURCES DEPT
SALEM, OREGON



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

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JUL 11 1996

WATER RESOURCES DEPT.
SALEM, OREGON

July 9, 1996

Mr. Adam Sussman
Water Rights Section
Water Resources Department
158 12th Street NE
Salem, OR 97310-0210

RE: Waterrights Information, Dundee Wells 8, 9 & 10
Waterrights Application G-12568

Dear Mr. Sussman:

Enclosed please find the information requested under item 1 of your letter dated June 24, 1996. This information includes the information you requested regarding the ownership status of the land on which the wells are sited as follows:

► **Well No. 8**

Well No. 8 is located in the City owned watershed area northwest of town. We have enclosed a copy of the preliminary title report prepared by Northwest Title Company, which contains copies of the deeds. We have also attached a copy of a map showing the location of the Well within the watershed area. The City owns land within the 100 foot radius around the well location.

► **Well No. 10**

Well No. 10 is located on Alder Street within the City limits of Dundee. We have enclosed a copy of the Deed showing the ownership by the City of Lots 9, 10, 11, 12 and 13, Block 6, Filbert Terrace. Well No. 10 is located near the center of Lot 9. The City owns or controls the land, including the street right-of-way, within a 50-foot radius around the well location.

► **Well No. 9**

Well No. 9 is located approximately 50 feet from the south side of 1st Street between Ione Street and Cherry Street. The well is located on property not owned by the City, but was drilled with the authorization and permission of the landowner as shown by the following documentation:

1. Grant of Gift deed, dated April 5th, 1991, which granted a parcel of land to the City for purposes of drilling a well to supplement the City's public water supply. The City drilled the well within the specified 5 year period and found

July 9, 1996
Mr. Adam Sussman
Water Rights Section
Water Resources Department
Page 2

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SALEM, OREGON

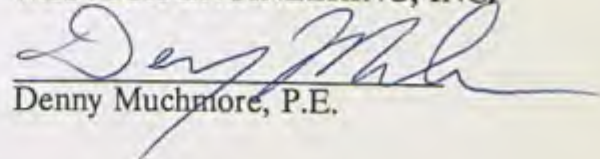
sufficient water to justify developing the well. The pump and pumphouse have not yet been constructed, pending the resolution of the water rights protests.

2. In 1992, Abbey Court Subdivision was constructed, and the developer dedicated to the City an exclusive water well easement which encompasses the land located within 55 feet of the wellhead.
3. As part of the Abbey Court Subdivision, the developer also obtained a public utility easement for a storm drain line located approximately 55 feet east of the well location. The location of the easement is referenced from the City Well Site described in one of the easement exhibits.
4. The land was subsequently sold to the William LLOYD Corporation, which has submitted preliminary plans for the development of a subdivision on the property surrounding the well site. The developer's application acknowledges the existence of the well site (pg 3, open space), and the developer is proposing to include the well site as part of the open space areas and parks for the development. The proposal includes provisions for a restrictive wellsite easement for the land within 55 feet of the wellhead, as shown on the preliminary plat.

The required public notice is currently being published on a weekly basis in the Newberg Graphic, and the affidavit of publication will be forwarded to you near the end of the month. If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.


Denny Muchmore, P.E.

drm
encl.
cc w/enclosure:

- ▶ Ms. Pat Auld, Dundee City Recorder
- ▶ Mr. John Bassani, Dundee Public Works

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McMinnville Office
P.O. Box 1239
445 Third Street
McMinnville, OR 97128
(503) 472-4627
(503) 538-8354
FAX (503) 434-4432

Northwest Title Company

JUL 11 1996

Newberg Office
P.O. Box 736
601 E. Hancock
Newberg, OR 97132
(503) 538-7361
FAX (503) 538-0723

WATER RESOURCES DEPT
SALEM, OREGON

June 20, 1994

Order No. 59889
City of Dundee

PRELIMINARY TITLE REPORT

City of Dundee
PO Box 201
Dundee, Oregon 97115

ATTN: Audrey

Ladies and Gentlemen:

We are prepared to issue a Title Insurance Policy, covering:

See EXHIBIT "A", attached;

as of June 17, 1994, at 8:00 A.M., vested in:

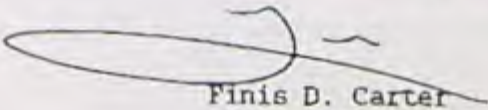
THE CITY OF DUNDEE,
a Municipal Corporation of the State of Oregon;

Subject to the usual printed exceptions, and

1. The tax amount has been reduced by reason of government owned exemption. If the exempt status is terminated under the statute prior to the date on which the assessment roll becomes the tax roll in the year in which said taxes were assessed, an additional tax may be levied.
2. Rights of the public in and to any portion of the herein described premises lying within the boundaries of roads or highways.
3. Fifteen foot roadway easement, water pipe line and electric power line easement, as described in deed recorded in Book 157, Page 374, Deed Records. (Affects Parcel I).
4. Ten foot right of way for roadway easement as described in deeds recorded in Book 157, Page 374 and Book 172, Page 576, Deed Records. (Affects Parcel II).

NOTE: Taxes, 1993-94: EXEMPT. Tax Lot 3327-600.

NORTHWEST TITLE COMPANY


Finis D. Carter
(503) 472-4627

well # 8

RECEIVED

JUL 11 1996

Order No. 59889 WATER RESOURCES DEPT.
SALEM, OREGON

EXHIBIT "A"

PARCEL I

The Northwest quarter of the Northeast quarter of Section 27, Township 3 South, Range 3 West of the Willamette Meridian in Yamhill County, Oregon. EXCEPT that portion conveyed to Charles Carsley, et ux, by Deed recorded in Film Volume 25, page 418, Deed and Mortgage Records.

PARCEL II

The West half of the West half of the Southwest quarter of the Southeast quarter, and the West half of the West half of the Northwest quarter of the Southeast quarter of Section 22, in Township 3 South, Range 3 West of the Willamette Meridian in Yamhill County, Oregon.

ALSO the East half of the West half of the Southwest quarter of the Southeast quarter, and the East half of the West half of the Northwest quarter of the Southeast quarter and the West half of the East half of the Northwest quarter of the Southeast quarter of Section 22, Township 3 South, Range 3 West of the Willamette Meridian, Yamhill County, Oregon, and containing 30 acres, said above described tracts of land being designated as Tracts 7, 10 and 11 OTTERBROOK ORCHARDS.

ALSO the West half of the East half of the Southwest quarter of the Southeast quarter of Section 22, Township 3 South, Range 3 West of the Willamette Meridian, (designated as Tract 6, OTTERBROOK ORCHARDS). EXCEPTING a right of way over and across a strip of land 10 feet in width along the North line of said tract, the same being reserved for a roadway; said tract comprising 10 acres, more or less, and known as "Sylvanus Springs Farm", situate in the County of Yamhill, State of Oregon.

ALSO part of the East half of the East half of the Southwest quarter of the Southeast quarter of Section 22, Township 3 South, Range 3 West of the Willamette Meridian in Yamhill County, Oregon, described as follows: Beginning at an iron pipe at the Southwest corner of the above described tract, from which iron pipe a fir 36 inches in diameter bears North 62° West 12 feet; thence South 89°00' East 330.00 feet to point in present road, (set iron pipe 4.00 feet West for witness to true corner in road); thence North along Westerly tract of present road 547.70 feet to point in road from which a fir 10 inches in diameter bears South 31° West 22.4 feet (set iron pipe 9.0 feet West for witness); thence West 330.00 feet set iron pipe from which a marked fir 50 inches in diameter bears North 86° West 17.0 feet and a maple 15 inches in diameter bears South 55° East 16.8 feet; thence South 542.00 feet to beginning.

EXCEPT the East 15 feet thereof.

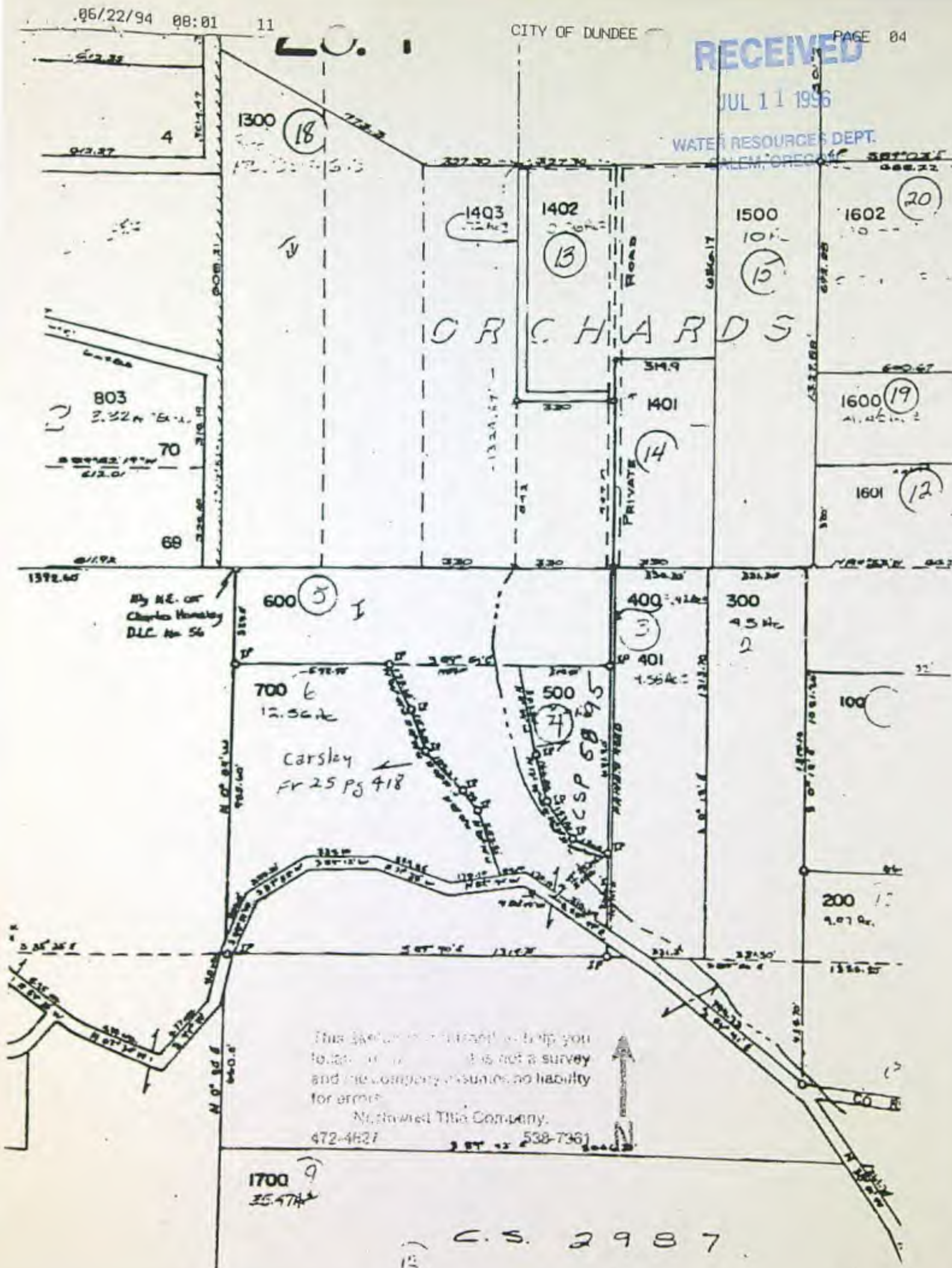
FURTHER EXCEPTING that portion conveyed to Eddie O. Nelson, et al, by deed recorded in Film Volume 24, Page 632, Deed and Mortgage Records.

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JUL 11 1996

WATER RESOURCES DEPT.

MEM. OREGON



441,100.00
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JUN 1 1925

DEPT.
N

KNOW ALL MEN BY THESE PRESENTS, That I CHASE L. CONOVER, a single man, widower of Grace H. Conover, deceased,

in consideration of Ten and no/100ths Dollars,

to me paid by the CITY OF DUNDEE, a municipal corporation of Yamhill County, Oregon,

do hereby grant, bargain, sell and convey unto said CITY OF DUNDEE,

its successors heirs and assigns, all the following real property, with the tenements, hereditaments and appurtenances situated in the County of Yamhill and State of Oregon, bounded and described as follows, to-wit:

PARCEL 1: The Northwest quarter of the Northeast quarter of Section Twenty-seven, in Township 3 South, of Range 3 West of the Willamette Meridian, in Yamhill County, and State of Oregon; SAVE and EXCEPT therefrom, a strip of land 10 feet in width off of and from the East side thereof, now used, and to be hereafter used by the public for road purposes, said roadway to be and remain as now located and used; ALSO, reserving for the benefit of the HETSON INVESTMENT COMPANY, a corporation, and FREDORA G. NICHOLS, and their respective assigns, the right and privilege of operating, maintaining, and repairing, when necessary that certain water pipe line now lying diagonally across the North 20 acres of said premises, subject to easements for water and electric lines in favor of Town of Dundee.

PARCEL 2: The East half of the West half of the Southwest quarter of the Southeast quarter, and the West half of the East half of the Northeast quarter of the Southeast quarter of Section 20, in Township 3 North, of Range 3 West of the Willamette Meridian, in Yamhill County, State of Oregon.

The above described two parcels of land, containing 20 acres, more or less.

PARCEL 3: The East half of the West half of the Southwest quarter of the Southeast quarter, and the East half of the West half of the Northeast quarter of the Southeast quarter of Section 20, in Township 3 North, of Range 3 West of the Willamette Meridian, in Yamhill County, Oregon, and containing 20 acres, said above described parcels of land being designated as, tracts 7, 10 and 11 "CHAS. L. CONOVER 2nd 2nd"; SAVE and EXCEPT therefrom a right-of-way for a roadway over the above strip of land 10 feet in width along the North line of tract 7, and a strip of land 10 feet in width along the South line of tracts 10 and 11.

To Have and to Hold, the above described and granted premises unto the said CITY OF DUNDEE

its successors heirs and assigns forever.

And CHASE L. CONOVER,

the grantor above named do hereby covenant to and with the above named grantee, its successors heirs and assigns that he is lawfully seized in fee simple of the above granted premises, that the above granted premises are free from all encumbrances,

and that he, his will and his heirs, executors and administrators, shall warrant and forever defend the above granted premises, and every part and parcel thereof, against the lawful claims and demands of all persons whomsoever.

Witness my hand and seal this 11th day of May, 1925

Executed in the Presence of

Margaret B. Morrison

Chase L. Conover (SEAL)

RECEIVED

JUL 11 1996

TER RESOURCES DEPT.
SALEM, OREGON

CALIFORNIA
STATE OF ~~OREGON~~

County of Los Angeles

BE IT REMEMBERED, That on this 11th day of May A. D. 19 50
before me, the undersigned, a Notary Public
in and for said County and State, personally appeared the within named CLASE L. CCHOVER, a
single man, widower of Grace L. CCHOVER, deceased, who is known
to me to be the identical individual described in and who executed the within instrument and acknowl-
edged to me that he executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and
official seal the day and year last above written.

Marjorie B. Harrison
Notary Public for California
My Commission expires : My Comm. expires Jan. 14, 1951

WARRANTY DEED

FORM NO. 1001

TO
COUNTY OF LOS ANGELES

STATE OF OREGON,
County of *Los Angeles*

I certify that the within instrument
was received for record on the 22
day of May, at 9 o'clock
A. D. 19 50, and recorded in book
on page 1, Record of
Deeds of said County.

WITNESS my hand and seal of
County affixed.

W. H. L. H. H. H.
County Clerk,
Recorder of County.

By *W. H. L. H. H. H.*
Deputy,
for the Office of
County Clerk,
Recorder of County.

RECEIVED

JUL 11 1996

RESOURCES DEPT.
EM, OREGON

KNOW ALL MEN BY THESE PRESENTS, that Henry W. Decker and Frances C. Decker, husband and wife
in consideration of Fifteen Hundred and no/100 Dollars,
to them paid by City of Dundee, Yamhill County, Oregon
do hereby grant, bargain, sell and convey unto the said grantees their heirs and assigns, all
the following real property, with the tenements, hereditaments and appurtenances, situated in the County
of Yamhill and State of Oregon, bounded and described as follows, to-wit:

The West $\frac{1}{2}$ of the East $\frac{1}{2}$ of the Southwest $\frac{1}{4}$ of
the Southeast $\frac{1}{4}$ of Section 22, Township 3 South
Range 3 West of the Willamette Meridian, (designated
as Tract No. 6, Otterbrook Orchards), excepting a
right of way over and across a strip of land 10
feet, in width along the North line of said tract,
the same being reserved for a roadway; said tract
comprising 10 acres, more or less, and known as
"Sylvanus Springs Farm", situate in the County of
Yamhill, State of Oregon.



To Have and to Hold the above described and granted premises unto the said grantees its
heirs and assigns forever.
And they the grantor do covenant that they are lawfully seized in fee simple of the above
granted premises free from all encumbrances.

and that they will and their heirs, executors and administrators, shall warrant and forever
defend the above granted premises, and every part and parcel thereof, against the lawful claims and
demands of all persons whomsoever.

Witness OUR hand and seal this 8th day of March, 1954.

Henry W. Decker (SEAL)
Frances C. Decker (SEAL)

STATE OF OREGON,

County of Clackamas } ss. On this 8th day of March, 1954,
before me, the undersigned, a Notary Public, to and for said County and State, personally appeared the
within named Henry J. Decker and Frances C. Decker, husband and wife
who are

known to me to be the identical individual so described in and who executed the within
instrument, and acknowledged to me that they executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year last above written.

John V. Nicks
Notary Public for Oregon.
My Commission expires November 27, 1957

WARRANTY DEED

After recording
return to

STATE OF OREGON,

County of Yamhill } ss.
I certify that the within instru-
ment was received by record on the
15 day of May, 1954,
at 11:15 o'clock M., and recorded
in book on page .
Record of Deeds of said County.

Witness my hand and seal of
County affixed.

John V. Nicks
By Deputy.

39477

No.

EXCEPT
EV
25/4/8

...grant...
bargain, sell and convey unto the said grantees, their heirs
and assigns, all the following real property, with the tenements,
hereditaments and appurtenances, situated in the County of
Yamhill and State of Oregon, bounded and described as follows,
to-wit:

S. 30
K. 5



(1)

LOT 1: Being a part of the John Spencer Claim
Notification #2291 in Section 27 in Tp. 3. S.
R. 3. W. of the Will. Mer. Oregon. Beginning
at an iron pipe set S. 00° 04' E. 324.0 feet and
S. 89° 50' E. 1001.4 feet from the 1/4 corner
between Sections 22 and 27 said Tp. and Range;
thence S. 39° 50' E. parallel with Section line
between 22 and 27, 114.10 feet to iron pipe in
roadway now there; thence south along 1/16 line
and roadway, 641.20 feet to iron pipe at the
Northeast corner of 1/3 of an acre tract County
Survey #3077 (Pump House tract); thence N 66°
04' W. 136.00 feet to iron pipe; thence N. 36°
43' W. 152.40 feet to iron pipe; thence N. 13°
45' W. 166.10 feet to iron pipe; thence N. 11°
04' W. 307.80 feet to beginning and containing
3.40 acres more or less.

(2)

LOT 2: Being a part of the John Spencer Claim
Notification #2291 Section 27 in Tp. 3. S. R.
3. W. of the Will. Mer., Oregon. Beginning at
an iron pipe set S. 00° 04' E. 324.0 feet from
the 1/4 post between Sections 22 and 27 in said
Tp. and Range; thence S. 39° 50' E. parallel
with Section line between 22 and 27, 114.10 feet
to iron pipe at the Northeast corner of 1/3 of an
acre, Co. Survey No. 3167; thence S. 26° 04' E. 111.60
feet to iron pipe; thence S. 19° 51' E. 151.00
feet to iron pipe; thence S. 45° 11' E. 164.10
feet to iron pipe; thence 43° 41' E. 93.40 feet
to iron pipe; thence S. 26° 14' E. 251.50 feet
to point in center of county road. Thence follow-
ing the average center line of said road S. 42°
40' W. 178.10 feet; thence N. 71° 38' W. 79.80
feet; thence 84° 12' W. 214.10 feet; thence S.
57° 55' W. 228.10 feet; thence S. 23° 31' W. 264.00
to an old iron pipe set in former Survey; thence
W. 00° 04' W. along the north and south center
line of Section 27, 985.60 feet to beginning and
containing 12.56 acres more or less.

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JUL 1 1896

WATER RESOURCES DEPT.
SALEM, OREGON

to Have and to Hold the above described and granted pre-
mises unto the said grantees, their heirs and assigns forever.

1. DEED

encumbrances, as of September 15, 1953, and that it will
and its successors and assigns, shall warrant and forever
defend the above granted premises, and every part and parcel
thereof, against the lawful claims and demands of all persons
whomever.

IN WITNESS WHEREOF, we have hereunto
affixed our seals officially this 15th day of September, 1953.

STATE OF OREGON,

15 65:11

CITY OF DUNDON

County of Yamhill

JACK M. JAMES

Notary Public

My Comm. Expires

Sept 15, 1954

250

STATE OF OREGON

County of Yamhill

On this 15th day of September, 1953

a Notary Public in and for

appeared the within signed

names and capacities

are known to me to be the

and who executed the within

that they executed the same

respecting the within

the City of Dundon.

IN TESTIMONY WHEREOF, I have hereunto

affixed my official seal this 15th day of September, 1953.

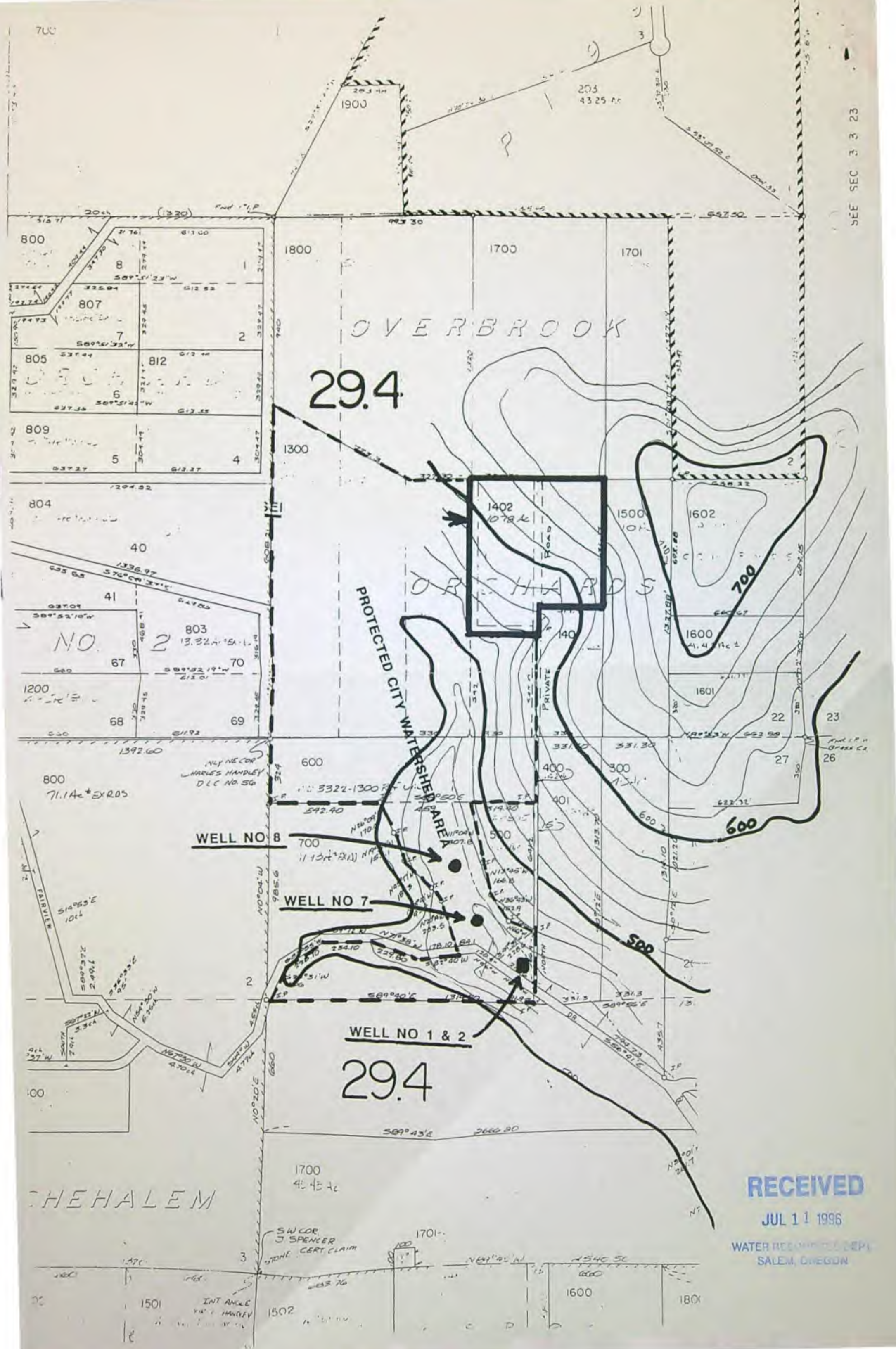
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WATER RESOURCES DEPT.
SALEM, OREGON

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SEE SEC 3 3 23



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JUL 11 1996

WATER RESOURCES DEPT
SALEM, OREGON

well #10

QUIT CLAIM DEED

THIS QUIT CLAIM DEED, made this 19th day of February, 1992, by and between THE BENJ. FRANKLIN LEASING COMPANY, INC., an Oregon corporation, with a mailing address of 601 S. E. Hawthorne Blvd., Portland, Oregon 97214, as Grantor, and THE CITY OF DUNDEE, OREGON, a municipal corporation, as Grantee, having a mailing address of 620 S. W. 5th, Dundee, Oregon 97115;

WITNESSETH, that the Grantor, in consideration of the sum hereinafter stated, does hereby REMISE, RELEASE AND FOREVER QUIT CLAIM to the Grantee, and to the Grantee's heirs, successors and assigns, all that tract or parcel of land situation in Yamhill County, Oregon, more particularly described as follows:

Lots 9, 10, 11, 12 and 13, Block 6, FILBERT TERRACE in the City of Dundee, County of Yamhill, State of Oregon

together with all tenements, hereditaments and appurtenances.

the true and actual consideration paid for this transfer, stated in terms of dollars, is \$10,000.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

IN WITNESS WHEREOF, Grantor has set its hand the day and year first above written.

GRANTOR:

THE BENJ. FRANKLIN LEASING COMPANY, INC.

By: Gilbert E. Stuart
Printed Name: Gilbert E. Stuart
Title: Vice President

ACKNOWLEDGMENT

STATE OF OREGON)
COUNTY OF MULTNOMAH) ss.

On this 19th day of February, 1992, the foregoing instrument was acknowledged before me the undersigned, a Notary Public in and for said County and State, personally appeared Gilbert E. Stuart, as Vice President of The Benj. Franklin Leasing Company, Inc.



Constance G. Curtis
Notary Public
Printed Name: Constance G. Curtis

002730

STATE OF OREGON
COUNTY OF YAMHILL

I hereby certify that this instrument was received and duly recorded by me in Yamhill County records.

Instrument #
002730
CHARLES STERN,
COUNTY CLERK

Until a change is requested, all tax statements shall be sent to the following address:

same as above

YAMHILL COUNTY TITLE & ESCROW, INC.

127236

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JUL 11 1992

WATER RESOURCES DEPT.
SALEM, OREGON

3-16-92

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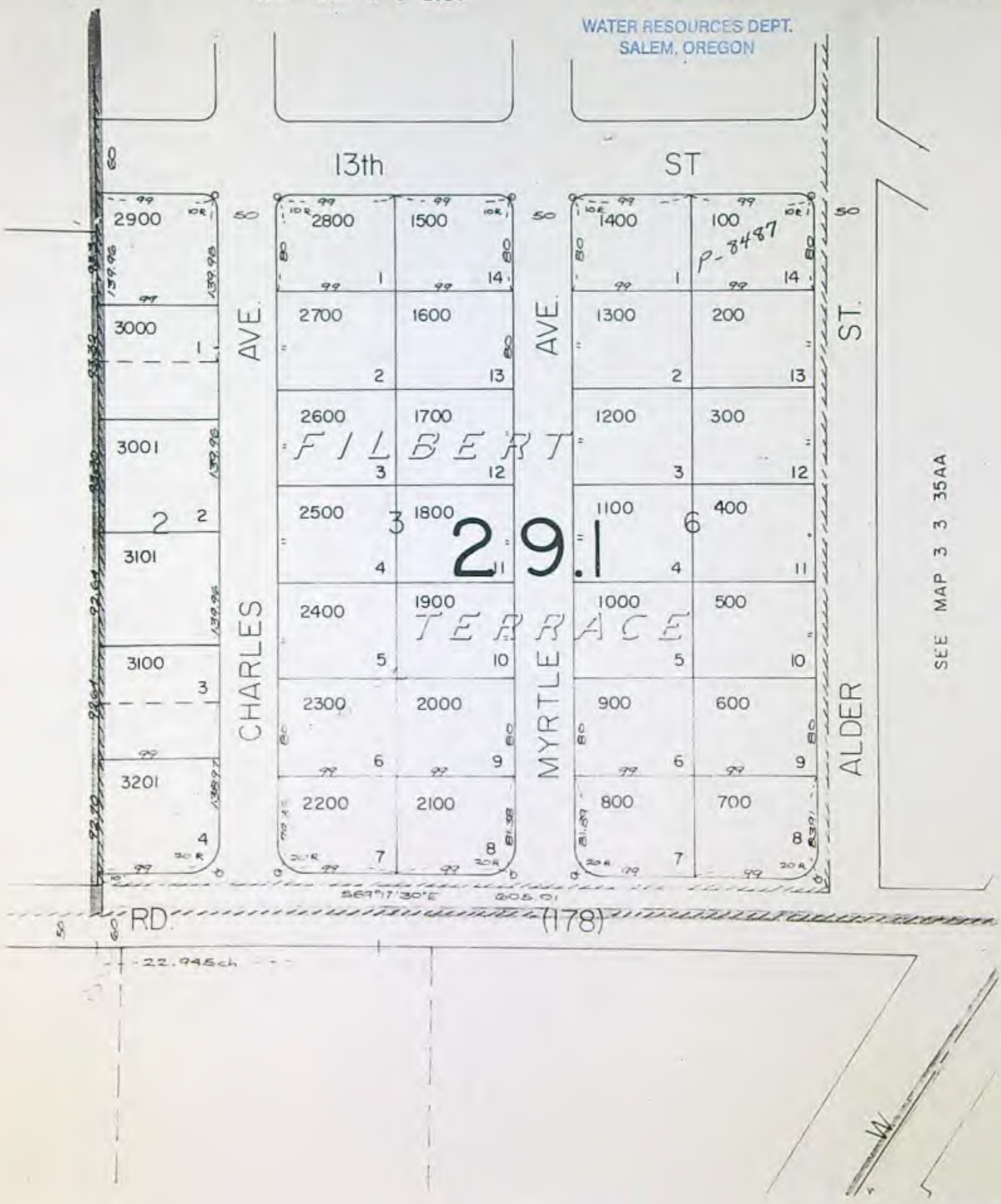
AERIAL

JUL 11 1996

3DD 61

SEE MAP 3 3 26DC

WATER RESOURCES DEPT.
SALEM, OREGON



GRANT OF GIFT

well 9 ①

The undersigned, does hereby bargain, grant, sell and convey unto the City of Dundee, an Oregon municipal corporation, as a gift, the following described real property located in Dundee, Yamhill County, Oregon:

A parcel of land lying within Lots 7 and 9 of Dundee Orchard Homes No. 1 in the Northwest Quarter of Section 25, Township 3 South, Range 3 West, Willamette Meridian, Yamhill County, Oregon, described as follows:

Beginning at an iron rod set at the intersection of the centerline of First Street with the Southerly extension of the West line of Dundee Terrace Addition, being also the line between Lots 7 and 8 of Dundee Orchard Homes No. 1 at a point being South 00°26'30" West 34.80 feet from the Southwest corner of Block 1 of said Dundee Terrace; thence South 00°26'30" West 96.06 feet to an iron pipe; thence South 30°36' West 100 feet along the boundary between Lot 9 and Lot 107; thence Northwesterly to a point lying 100 feet South 89°21' West from the true point of beginning; thence North 89°21' East 100 feet to the true point of beginning.

This gift is made on the condition that the City of Dundee will utilize the property to drill for water to supplement the City's public water supply.

In the event the City of Dundee either fails or refuses to drill for water within the next five years from the date hereof, or, if the City of Dundee has drilled for water and found none, then in that event, the above described property shall revert to the undersigned, or to its successors and assigns.

Dated this 5th day of April, 1991.

Vito Vittoria

Vito Vittoria, Trustee of the
Vittoria Family Trust by
Agreement Dated 10/19/90

Theresa Vittoria

Theresa Vittoria, Trustee of
the Vittoria Family Trust by
Agreement Dated 10/19/90

STATE OF OREGON)
) ss.
County of Yamhill)

Personally appeared the above named Vito Vittoria and Theresa Vittoria, and acknowledged that they were Trustees of the Vittoria Family Trust by Agreement dated October 19, 1990 and acknowledged the foregoing instrument as their voluntary act and deed.

Marjorie L. Racette
Notary Public for Oregon
My Commission Expires: 04-5-93
My Commission Expires _____

After recording return to:

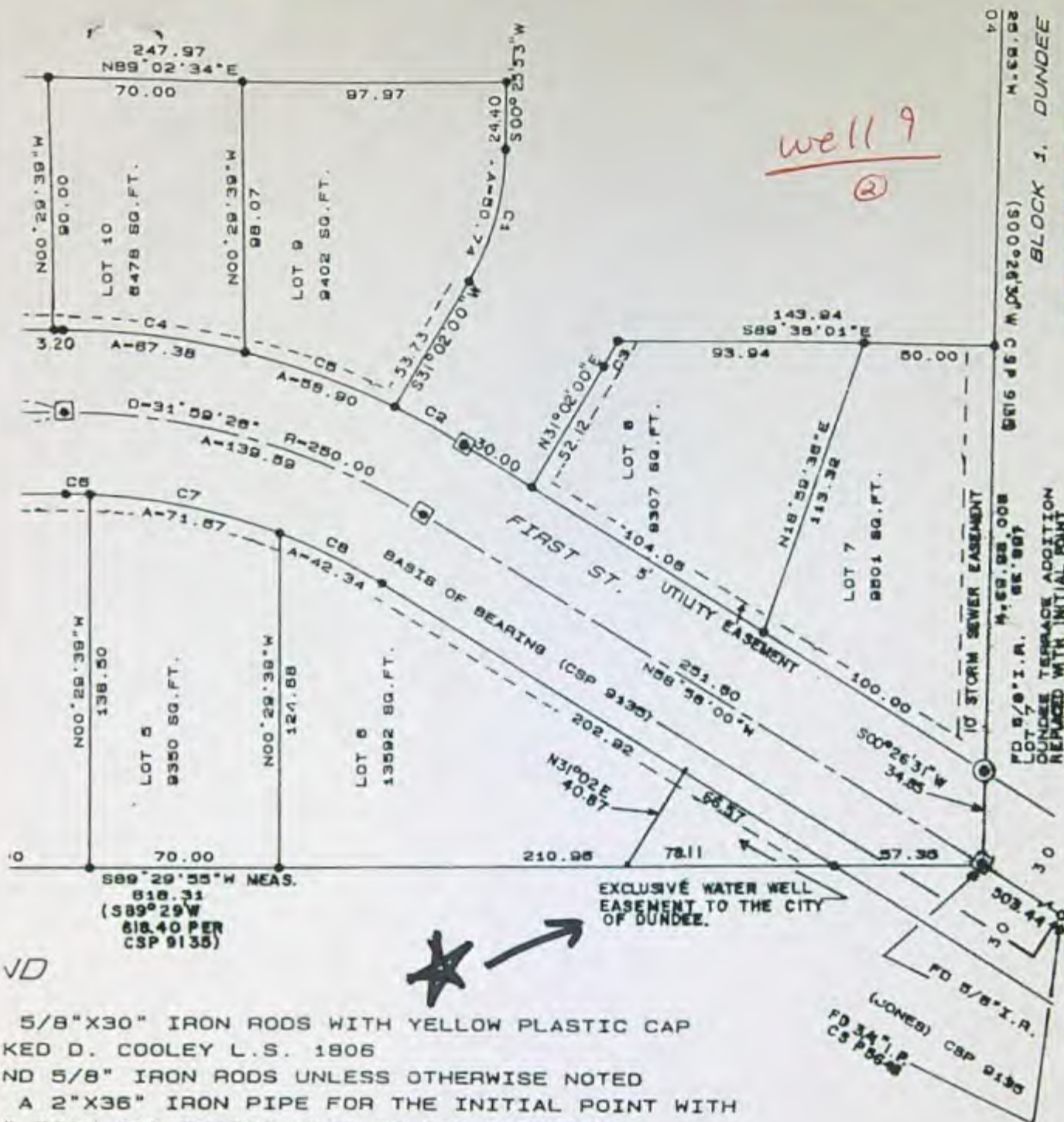
Until a change is requested,
send all tax statements to:

City of Dundee
Dundee, Oregon 97114

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JUL 11 1996

WATER RESOURCES DEPT.
SALEM, OREGON



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JUL 11 1996

WATER RESOURCES DEPT.
SALEM, OREGON

VD

5/8"X30" IRON RODS WITH YELLOW PLASTIC CAP
 MARKED D. COOLEY L.S. 1806
 AND 5/8" IRON RODS UNLESS OTHERWISE NOTED
 A 2"X36" IRON PIPE FOR THE INITIAL POINT WITH
 1/2" IRON ROD INSIDE WITH YELLOW CAP MARKED
 COOLEY L.S. 1806
 5/8"X30" IRON RODS WITH YELLOW PLASTIC CAP MARKED
 COOLEY L.S. 1806 TO BE SET AFTER PAVING OF
 STREETS.

NO GEODETIC CONTROL MARK WITHIN 1/2 MILE OF
 PROPERTY.

PAGE 1 OF 2

Received 4-27-1992
 County Surveyor

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JUL 11 1996

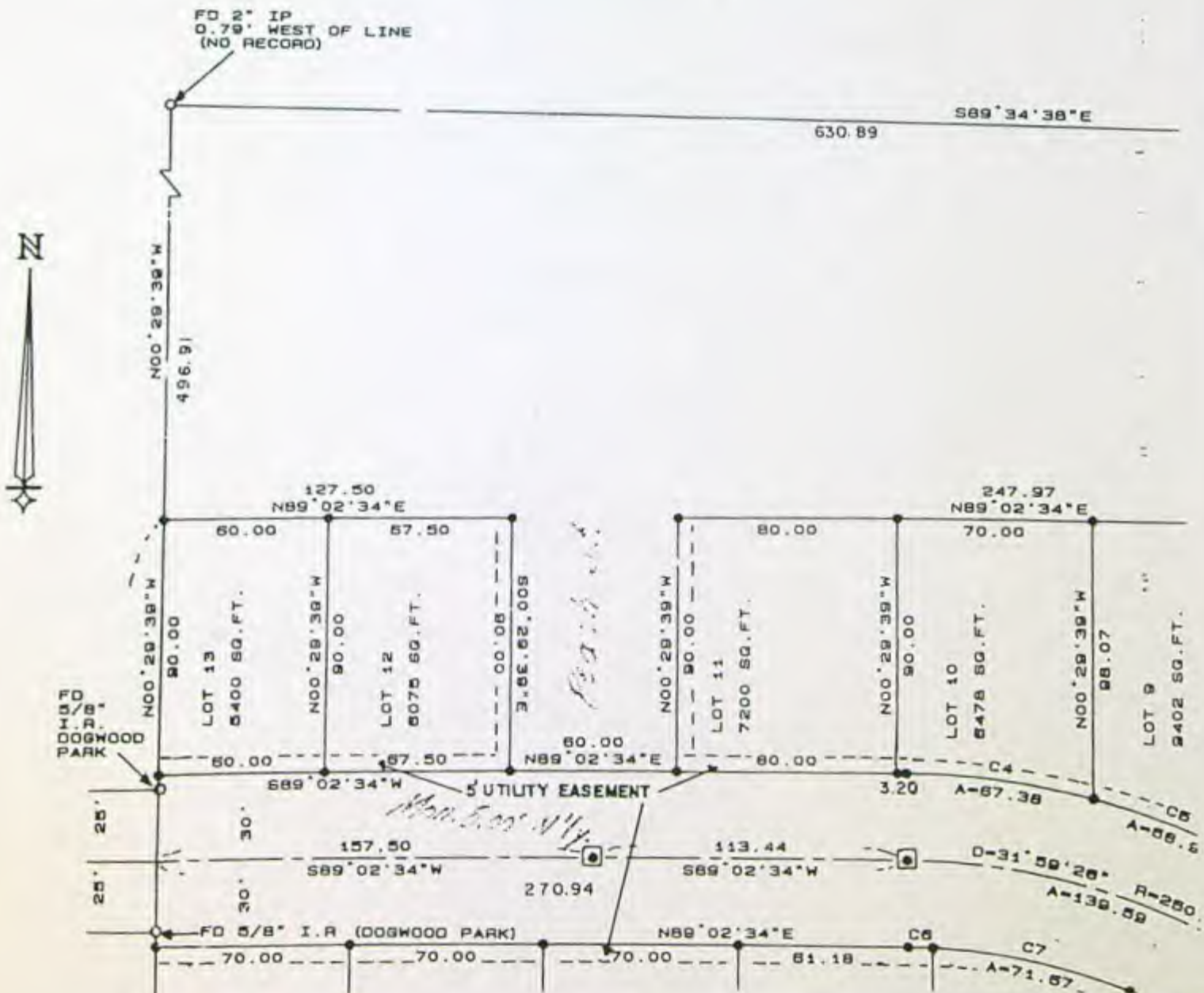
WATER RESOURCES DEPT.
SALEM, OREGON

ABBIE COURT SUBDIVISION PHASE 1

LOCATED IN THE NORTHWEST 1/4 SECTION 25, TOWNSHIP 3
SOUTH, RANGE 3 WEST OF THE WILLAMETTE MERIDIAN, IN LOT
7 OF DUNDEE ORCHARD HOMES NO. 1, IN THE JACOB SHUCK
DONATION LAND CLAIM, CITY OF DUNDEE YAMHILL COUNTY, OR.

SCALE: 1"=50'

17 APRIL 1992



RECEIVED

AM No. 926—GENERAL EASEMENT.

COPYRIGHT 1950 STEVENS-NESS LAW PUBLISHING CO., PORTLAND, OR 97204

ONBE

JUL 11 1996

WATER AGREEMENT FOR EASEMENT
SALEM, OREGON

THIS AGREEMENT, Made and entered into this 10th day of March, 1992,
by and between VITO VITTORIA & THERESA L. VITTORIA
hereinafter called the first party, and THE CITY OF DUNDEE
hereinafter called the second party;

WITNESSETH:

WHEREAS: The first party is the record owner of the following described real estate in Yamhill
County, State of Oregon, to-wit:

See Exhibit "A" Attached

well 9
(3)

and has the unrestricted right to grant the easement hereinafter described relative to said real estate;

NOW, THEREFORE, in view of the premises and in consideration of One Dollar (\$1) by the second party to the first party paid and other valuable considerations, the receipt of all of which hereby is acknowledged by the first party, they agree as follows:

The first party does hereby grant, assign and set over to the second party 10 feet along the Eastern Boundary of the City Well Site (as described on Exhibit "B" Attached), extending South 50 feet more or less past the well site. Easement to be used for storm drain from Abbie Court Subdivision to the North of the subject easement. (See attached map)

(Insert here a full description of the nature and type of the easement granted to the second party.)

The second party shall have all rights of ingress and egress to and from said real estate (including the right to use the easement for the purpose of the storm drain system) necessary for the second party's use, enjoyment, operation and maintenance of the easement hereby granted and all rights and privileges incident thereto.

Except as to the rights herein granted, the first party shall have the full use and control of the above described real estate.

The second party hereby agrees to hold and save the first party harmless from any and all claims of third parties arising from second party's use of the rights herein granted.

The easement described above shall continue for a period of indefinitely, always subject, however, to the following specific conditions, restrictions and considerations:

NONE

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N/A

WATER RESOURCES DEPT.
SALEM, OREGON

and second party's right of way shall be parallel with said center line and not more than N/A feet distant from either side thereof.

During the existence of this easement, its maintenance and the cost of said maintenance shall be the responsibility of (check one): ☐ the first party; ☒ the second party; ☐ both parties, share and share alike; ☐ both parties, with the first party being responsible for% and the second party being responsible for%. (If the last alternative is selected, the percentages allocated to each party should total 100.)

This agreement shall bind and inure to the benefit of, as the circumstances may require, not only the immediate parties hereto but also their respective heirs, executors, administrators and successors in interest as well.

In construing this agreement, where the context so requires, the singular includes the plural and all grammatical changes shall be made so that this agreement shall apply equally to individuals and to corporations. If the undersigned is a corporation, it has caused its name to be signed and its seal affixed by an officer or other person duly authorized to do so by its board of directors.

IN WITNESS WHEREOF, the parties hereto have executed this easement in duplicate.

Dated March 10 19 92

Vito Vittoria
VITO VITTORIA

Theresa L. Vittoria
THERESA L. VITTORIA

BY:

THE CITY OF DUNDEE

SECOND PARTY

STATE OF OREGON, County of Yamhill ss.

This instrument was acknowledged before me on March 10 19 92
by Vito Vittoria and Theresa L. Vittoria

This instrument was acknowledged before me on 19

by

as

of

Janet J. Winder
Notary Public for Oregon

My commission expires 5/6/93

AGREEMENT
FOR EASEMENT

BETWEEN

VITO & THERESA L. VITTORIA

AND

THE CITY OF DUNDEE

AFTER RECORDING RETURN TO

The City of Dundee
P.O. Box 220
Dundee, OR 97115

SPACE RESERVED
FOR
RECORDER'S USE

STATE OF OREGON, } ss.
County of

I certify that the within instrument was received for record on the day of 19 92, at o'clock M., and recorded in book/reel/volume No. on page or as fee/file/instrument/microfilm/reception No. Record of of said County.

Witness my hand and seal of County affixed.

By Deputy

EXHIBIT "A"

A parcel of land lying within Lots 7 and 9 of Dundee Orchard Homes No. 1 in the Northwest quarter of Section 25, Township 3 South, Range 3 West, Willamette Meridian, Yamhill County, Oregon, described as follows:

Beginning at an iron rod set at the intersection of the centerline of First Street with the Southerly extension of the West line of Dundee Terrace Addition, being also the line between Lots 7 and 8 of Dundee Orchard Homes No. 1, at a point being South $00^{\circ}26'30''$ West 34.80 feet from the Southwest corner of Block 1 of said Dundee Terrace; thence South $89^{\circ}29'$ West 558.40 feet to an iron rod set 60.00 feet East of the East line of Block 1 of Dogwood Park Subdivision, all as shown in County Survey P-9135 of county survey records; thence South $00^{\circ}31'$ East on a line parallel to the East line of said Dogwood Park, a distance of 76.26 feet to the Northerly line of the Sitton tract at a point from which a $5/8''$ iron rod by a fence corner bears North $58^{\circ}58'10''$ West 3.19 feet; thence South $58^{\circ}58'10''$ East along the Northerly line of said Sitton tract, being the Northerly line of County Survey P-4477 as marked, a distance of 473.81 feet to an iron rod set in said survey P-4477; thence South $31^{\circ}11'40''$ West 29.90 feet to an iron rod set in said survey; thence South $61^{\circ}26'$ East 13.20 feet to an iron rod set on line between Lots 9 and 106 of said Dundee Orchard Homes No. 1; thence North $30^{\circ}36'$ East 26.00 feet to an iron rod set at the Southwest corner of Lot 107; thence continuing North $30^{\circ}36'$ East along the Westerly line of Lot 107, a distance of 277.67 feet to an iron rod at its intersection with the southerly extension of the West line of Dundee Terrace; thence North $00^{\circ}26'30''$ East 96.06 feet to the point of beginning.

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EXHIBIT CBE

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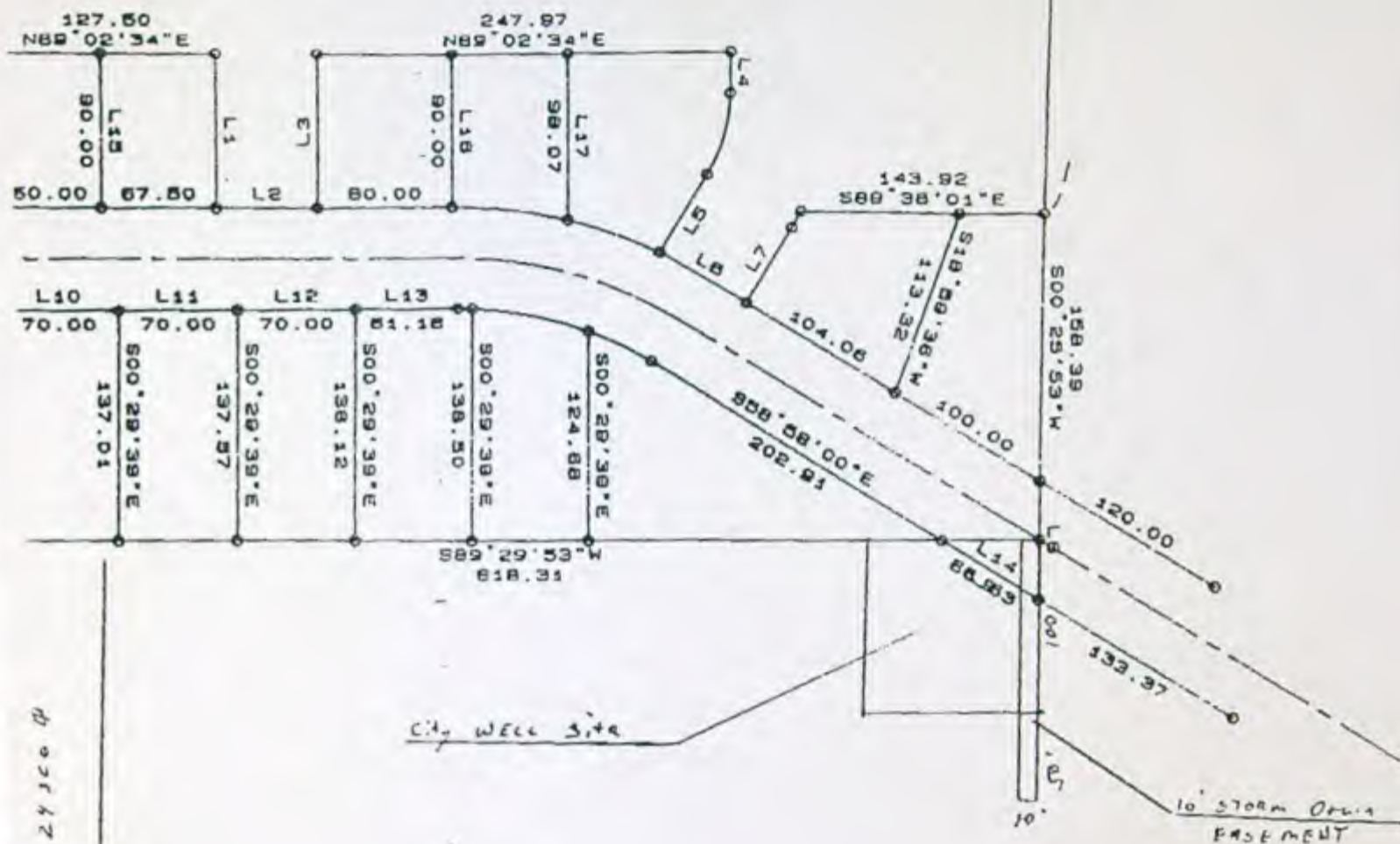
A parcel of land lying within Lots 7 and 9 of Dundee Orchard Homes No. 1 in the Northwest Quarter of Section 25, Township 3 South, Range 3 West, Willamette Meridian, Yamhill County, Oregon, described as follows:

Beginning at an iron rod set at the intersection of the centerline of First Street with the Southerly extension of the West line of Dundee Terrace Addition, being also the line between Lots 7 and 8 of Dundee Orchard Homes No. 1 at a point being South $00^{\circ}26'30''$ West 34.80 feet from the Southwest corner of Block 1 of said Dundee Terrace; thence South $00^{\circ}26'30''$ West 96.06 feet to an iron pipe; thence South $89^{\circ}29'$ West 143.35 feet; thence North $0^{\circ}31'00''$ West 96.05 feet; thence North $89^{\circ}29'$ East 146.94 feet to the point of beginning.

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CITY OF DUNDEE
LAND USE APPLICATION

JUL 11 1996 well 9
WATER RESOURCES DEPT. ④
SALEM, OREGON

Dundee Planning Department
PO Box 220
Dundee, Oregon 97115-0220
538-3922 / FAX 538-1958

Docket # _____
Date Rcvd. _____
Fee _____
Receipt # _____

Type of Application PLANNED UNIT DEVELOPMENT
Zone Classification R3 Plan Designation _____
Tax Lot # 900, 3402, 3405, 3400, 903 Parcel/Lot Size 7.92 AC +/-
Property's Address HWY 99W BETWEEN 15th & 3rd
Parcel Location: _____
DLC _____ Section 25 Township 3S Range 3W

Applicant BARRY R. SMITH, NCARB Phone # 503-295-6261
Mailing Address 621 SW MORRISON ST., #1237, PORTLAND 97205

Owner BILL RAWSON Phone # 503-226-4512
Mailing Address C/O WILLIAM LLOYD CORP. PO BOX 10746
PORTLAND OR 97210

This application is being processed with the legal owners full understanding and knowledge: Yes ✓ No _____

The Applicant requests the following: 46 LOT PLANNED UNIT DEVELOPMENT - SEE ATTACHED

Please list justification for the request: SEE ATTACHED

List special uses desired which are not permitted by the present classification/designation:

The property is presently being used for VACANT

The following are utilities, associations and districts which serve the parcel or area:

Water _____	Electricity _____
Sewer _____	Telephone _____
Gas _____	Fire _____
Recreation District _____	
School District _____	
Irrigation District _____	Other _____

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JUL 11 1995 LAND USE

Page 2

WATER RESOURCES DEPT.
SALEM, OREGON

How is the property accessed:	Paved	Gravel	Unimproved	Other
City Streets	_____	_____	_____	_____
County Roads	_____	_____	_____	_____
Private Roads	_____	_____	_____	_____
Easements	_____	_____	_____	_____

Are there any buildings on the property (house, mobile home, garage, etc....)?

List all structures WORK SHED

What are buildings used for? TO BE REMOVED.

- ☐ Attach all waivers of objections from adjacent property owners.
- ☐ Attach 12 copies of a scaled map of the property with exact dimensions.
- ☐ Attach 12 copies of a scaled map of the general vicinity; clearly marking the property location.
- ☐ Attach 12 copies of a scaled site plan showing all buildings and major landscaping elements.
- ☐ Applicant is responsible for providing a certified list of property owners within 100 feet of area; prepared by County/title company. List must be current within the last 30 days.

I hereby certify that all information, justification, maps and supplemental information submitted are in all respects true and correct to the best of my knowledge and belief.

I understand that issuance of a permit based on this application will not excuse me from complying with effective ordinances and resolutions of the City of Dundee, Yamhill County, Oregon, and Oregon Revised Statutes despite any errors on the part of the issuing authority in checking this application.

I hereby grant permission for and consent to the City of Dundee, its officers, agents and employees, coming upon the above-described property to gather information and inspect the property whenever it is reasonably necessary for the purposes of processing this application or preparing a staff report.

I further understand and agree to reimburse the City of Dundee for costs incurred on my behalf for planning, engineering, legal services . . . as they may relate to my request, application or project.

BSmith
Authorized Agent/Applicant

11/14/95
Date

Will. M. An
Owner's Signature

11/14/95
Date

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SALEM, OREGON**

**BARRY R. SMITH, NCARB
ARCHITECTURE + DEVELOPMENT
621 SW Morrison Street, Room 1237
Portland, Oregon 97205
Tel/Fax: (503) 295-6261**

**VITTORIAN VILLAGE
PLANNED UNIT DEVELOPMENT NARRATIVE**

Tax Lot 3325BC-900 et. al.
City of Dundee, Yamhill County, Oregon
in the NW 1/4 of Section 25, T.3S, R.3W, WM
West side Highway 99W between First and Third Streets
7.92 Acres, Zoned Two-Family Residential (R-3)/Medium Density Residential

I. INTRODUCTION.

Bill Rawson of William/Lloyd Corp. retained Architect Barry Smith in August, 1995 to prepare planning documents for development of this site. A previous land-use decision was made regarding the south portion of this property. However, with all the properties assembled as shown, a concept of a mixed use New Town (Victorian) village is employed. It is based on a series of building typologies which target an emerging residential market in Dundee for first time home buyers and "empty-nesters" and a friendlier notion of neighborhood.

Several key elements of the site led to the formation of the proposed master plan. The significant design determinants are: 1) Site Access and limited Highway access; 2) Natural environmental features and topography; 3) Site size, configuration and opportunity within City Limits; and, 4) The target residential market.

II. BACKGROUND.

The New Town village concept is based on an early twentieth century approach to planning. It uses ideas about human scale and quality of life in lieu of typical, post-W.W.II suburban planning based on automobile accommodations. The important characteristics of the concept are: 1) Narrower, landscaped streets; 2) Garages and off-street parking away from front yards; 3) Smaller lots sizes, clustered housing and attached housing; 4) Usable, open space networks and set asides; 5) Intimate physical relationships between houses and front yards to encourage neighborhood social interaction: limit front yard setbacks and provide porches for each house.

With the conditions of the site, the concept of the village in mind and based upon the typologies developed for this project, the Tentative Plan is created with four individual elements:

1) A vehicular axis is set as a through street between First Street and Third Street. This spine is to accommodate single family housing of a special type and scale which allows greater density while preserving the qualities of detached homes.

2) The gently sloping portion of the site is given access with a turnaround to service clusters of attached housing. These clusters are oriented around a landscaped parkway commons with vehicular circulation regulated to a perimeter street. The street includes a landscape buffer towards the existing neighborhoods along First Street. The common open spaces are gathering areas for the residents of the development.

3) The environmental features are preserved and enhanced, and linked to an overall network that includes a landscape berm separating the residential portions from the highway.

4) A future neighborhood commercial site is preserved with a limited access point at the vacated Second Street cut and a pedestrian link back to the new neighborhood.

These elements are all within the scope of a medium density residential site. The smaller lot sizes conform with the minimum lot size per unit. There is an emphasis on pedestrian circulation and a mixed-use provision more typical of a community not dependent on cars. And, the density is well within that prescribed for the site by the zoning designation.

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III. PLANNED UNIT DEVELOPMENT.

2.302.05 Development Requirements.

A. Site Adaptation. The Plan is made to preserve and enhance the significant natural and unique features of the site. The existing, open storm drainage ditches are reworked to create a pond. The existing large, mature tree is saved and becomes the focal point for the new park. The pond and park areas are included in a larger open space network. The storm flow from the upstream developments is captured into an underground storm sewer which flows into the pond. The pond's outflow will be connected to an existing storm sewer system on the east side of Highway 99. The pond therefore will play an important role in storm flow management while contributing to the natural features of the site.

The plan is designed around the natural topography of the site. The site gently slopes from the south and north to the center section and then west towards the western hills. The proposed north/south street meanders along the midsection of the site. The attached units step up the slope and around the significant natural features of the site. The western most units are tightly clustered and provide an opportunity for townhouses with views towards the Cascades.

The plan includes a spine of open space in a Tract between the residential portions of the development and the proposed neighborhood commercial portions along the highway. This spine will be built up as a berm and landscaped. Elm trees (or equal) at approximately 30'-0" spacing will be provided for the streets.

B. Lot Arrangement. All lots have direct access to or front on the open space and recreation area network. The east row of lots have an open space tract buffer between the lots and the proposed, future, neighborhood commercial sites. This buffer will be bermed and landscaped and will include a soft pedestrian trail for recreation. The west row of lots have access to the open space commons via the private street. This commons includes the pond and fronts on the attached villas which climb the slopes to the west. The townhouses have pedestrian links to the commons.

C. Density of Development.

Gross Site Area (including well reserve)	358,386 sq. ft. (8.227 Ac)
Net Site Area (85% GSA)	304,628 sq. ft. (6.993 Ac)
Reserve Commercial Site(s)	< 65,475 sq. ft. (1.503 Ac) >
Net Developable Site Area	239,153 sq. ft. (5.49 Ac)

$$\text{Density (R3)} = \text{NSDA} / 10 \text{ units per acre} = 5.49 \text{ Ac} \times 10 = 54.9 \text{ units}$$

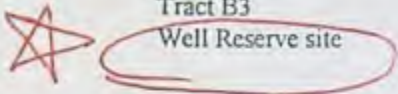
Planned Development Density:

Twenty-eight (28) Detached Home Sites	3,334 sq. ft. average site
Thirteen (13) Attached Home Sites (Villas)	2,500 sq. ft. average site
Five (5) Townhouse Sites	3,000 sq. ft. average site

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WATER RESOURCES DEPT.
SALEM, OREGON**D. Amount of Open Space**
$$\text{Open Space} > 20\% \text{ GSA} = (0.20) \times 358,386 \text{ sq. ft.} = 71,677 \text{ sq. ft.}$$
Planned Development Open Space:

Tract B1	50,395 sq. ft.
Tract B2	12,772 sq. ft.
Tract B3	4,842 sq. ft.
 Well Reserve site	<u>10,370 sq. ft.</u>
	78,379 sq. ft. (check)

E. Community Option. The open space network within this development is proposed to be kept as a private system in commonly owned Tracts. The idea is to develop a park system within the development for use by the residents of the development to meet the needs of those residents. Any park system development charges are hereby requested to be waived. The development provides ample park space and outdoor recreation opportunities for the residents.

F. Structure Setback Provisions. The setbacks for the development are planned as follows: 1) Detached Houses will have front yards setback 12 feet from the front property line and will have porches within those setbacks; side yards shall be 4 feet and 7.3 feet at the common driveway; garages shall be accessed via the common driveway and located in the back yards. 2) Villas will be attached houses with a minimum of 5 feet set back at side yard breaks; the garages shall be setback 18 feet from the front property line setback - this requires an adjustment from the 20 feet setback requirement and should be approved since the 28'-0" street in the 50'-0" Tract provides for additional landscaping and buffering compared to a 32'-0" street (see "G" below). 3) Townhouses will have a minimum of 5 feet side yard setbacks and a minimum of 18 feet garage setbacks with an adjustment similar to above.

G. Circulation. All streets are planned to be private in 50'-0" wide Tracts. As a part of the overall planning concept, the street widths are planned to be 28'-0" providing two-way traffic and parking on one side. The entry leg from First Street is planned to be 32'-0" wide. The vehicle circulation provides ample on street parking opportunities with minimal curb cut interference; most of the streets are single loaded (that is, they only have houses on one side). The Tract layout provides for a future connection to the parcel of property to the west of the development. This is done to address the concerns that the adjacent property is landlocked if it is to be fully developed. Any connection to the private street system of this development will require participation in the rules and covenants of the private street agreements and a pro-rated reimbursement for roadway costs to the developer of this project.

An internal pedestrian system is also a critical element of the plan. Pathways are linked through the open space networks to the sidewalk flanking both sides of the streets. Note that no sidewalk is proposed along the Well Reserve and Tract B3 open space. It is the intention of these elements to act as buffers to the development along First Street. Pedestrian connection is also provided through the east flank of the detached residential sector to the future neighborhood commercial sites.

Frontages along the existing First and Third Street rights-of-way shall receive half street improvements. Partial, temporary, substandard improvements may be proposed as interim solution until the City changes the access points of First and Third Streets at Highway 99W. A thorough engineering proposal will be made for approval by the City Engineer.

H. Off-Street Parking. All units shall have single car garages for off-street parking. Each driveway is configured to allow an additional off-street space on a parking pad. Any more off-street parking seems not to be necessary due to the ample amount of on street parking uninterrupted by curb cuts in the predominantly single loaded scheme.

I. Utilities. All utilities shall be placed underground in the private Tracts created for the street system. Fire Hydrants shall be placed as directed by the Fire Marshall. Provisions for utilities shall be as follows:

1) Water. An 8" main line shall be looped through the development for connections at First Street and Third Street. An 8" connection is possible at First Street. A plug and connection to the existing 4" line in third street will be provided until the City extends the 8" line in Third Street to the site.

2) Sanitary Sewer. A separate sanitary system will be designed for connection to an existing manhole on the east side of Highway 99W.

3) Storm Sewer. Storm drainage will follow the existing flow and outlet to the 18" inlet on the west side of the highway. Development drainage will flow into this system. However, to limit and control flow and enhance water quality, individual dwelling units will dispose of roof drainage on site using down spouts and splash blocks to lawn areas.

4) Street Lights. A lighting design shall be prepared cognitive of the design goals of the development for approval by the City Engineer.

J. Homeowners Association. A homeowners association shall be established according to the requirements of the Code. Additional design guidelines will be established to insure the desirable characteristics of the development. The covenants will include maintenance of streets, open spaces, street landscaping, front yards and open space network landscaping, limits on recreation vehicle parking and provisions for future access to the private infrastructures and streets.

IV. CONCLUSION

This proposal demonstrates the plan's adherence to the minimum requirements of the Section 2,302 Planned Unit Development. The characteristics of the development in establishing a progressive use of space and maintaining an early twentieth century design standard add another layer of quality worthy of approval. Resolution of the reserve parcels along Highway 99W will be left to another time. The State of Oregon Department of Transportation has been notified of the intentions to develop the site with the reserve parcels having future access from the Highway. Dan Fricke of ODOT should be contacted for his department's response.

Resolution of off site improvements needs to occur. As now presented, this development will make improvements to its edges. Improvement of the water service beyond the property is not a part of this proposal. Improvement of First and Third Streets beyond the property's frontage is not a part of this proposal. And, due to the street section issues of First and Third Streets, improvement is proposed only to occur where the road section issues are not a problem. Where the section issues are a problem, a temporary substandard improvement will be proposed.

Preliminary, individual building designs have been included as a part of this application. The intentions is to demonstrate to the Council the integrity of the proposal in maintaining valuable and meaningful qualities of life. This is a project which will make Dundee proud.

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■ BARRY R. SMITH, NCARB
■ ARCHITECTURE & DEVELOPMENT

1 SW MORRISON ST., ROOM 1237
PORTLAND, OR (503) 295-6261

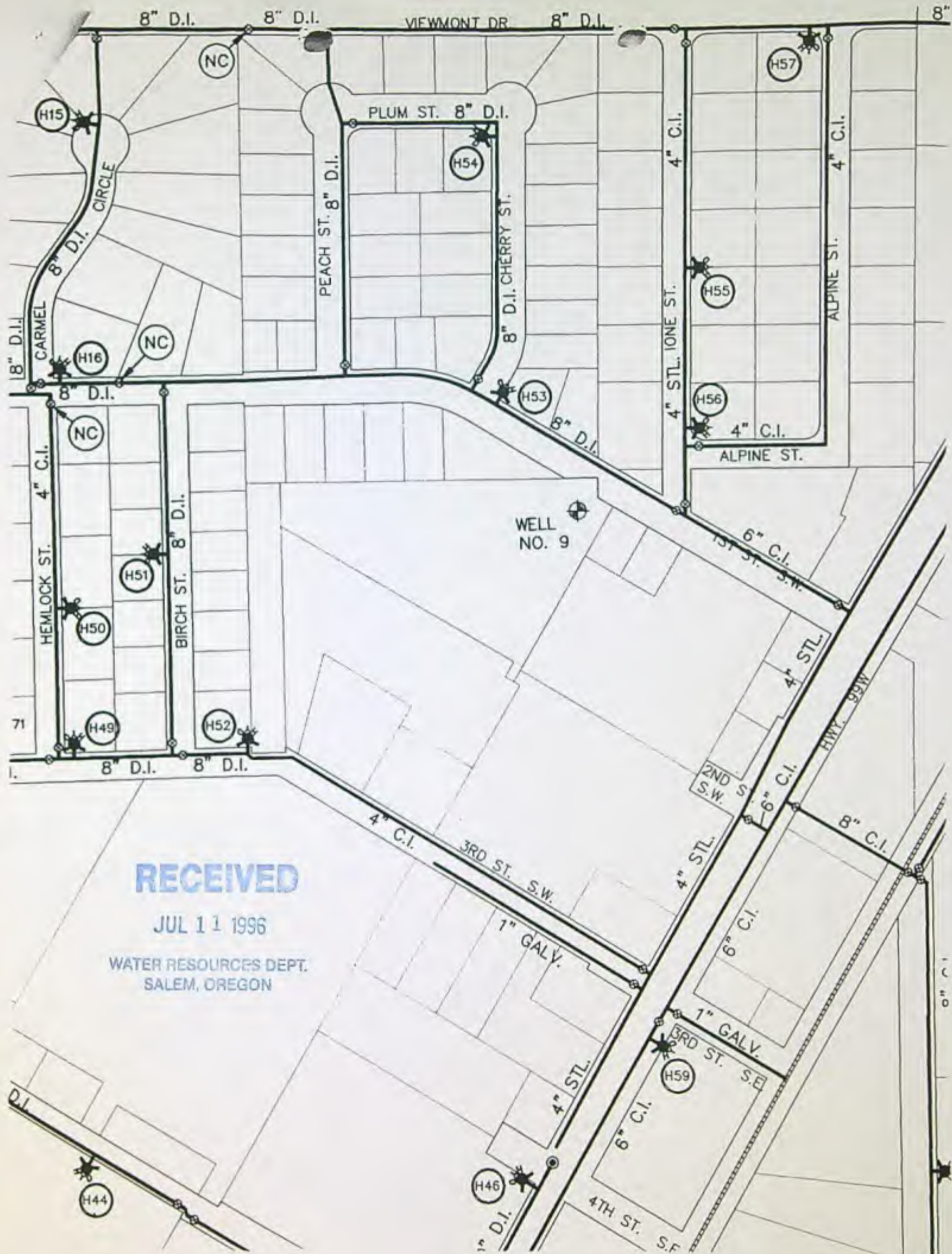
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WATER RESOURCES DEPT.
SALEM, OREGON

Application No. 6-12568

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State of Oregon
WATER RESOURCES DEPARTMENT

WATER RESOURCES DEPT.
SALEM, OREGON

Application for a Permit to Appropriate Ground Water

Applicant(s) City of Dundee
(Please print or type - use dark ink)
Mailing Address: P.O. Box 220
Dundee, Oregon 97115 (503) 538-3922
City State Zip Daytime Phone No.

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

1. **THE DEVELOPMENT** (number of wells, tile lines, infiltration galleries, etc.):
three (3) wells

If development is less than one mile from a natural stream, give the following:

Distance from development to stream: _____

Elevation difference between streambed and development: _____

NOTE: Wells must be constructed according to standards set by the department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well driller's log with this application, and skip to Section 2 below.

Wells have not been constructed.

Diameter of well: _____ Depth in feet: _____

Type and size of well casing: _____ No. of feet: _____

Estimated depth to water: _____

Type of access port or measuring device: _____

Wells to be drilled by: _____

Address: _____

If the water well is flowing artesian, describe your water control and conservation works: _____

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use: 1.78 cubic feet per second, OR 800 gallons per minute. If water is to be used from more than one ground water source, give the quantity of water from each: 1 @ 150 gpm, 1 @ 150 gpm, and 1 @ 500 gpm.

3. **INTENDED USE(s) OF WATER:** Municipal Use

If for more than one use, give the quantity of water from each source for each use; _____

If for DOMESTIC use, state the number of households to be supplied; _____

If for MUNICIPAL OR QUASI-MUNICIPAL use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)

Present Population 1,663

If for MINING use, state the nature (gold, silver, etc.) of the mines to be served; _____

If for IRRIGATION, or other land area use, state the TOTAL number of acres to be developed under each use;

Irrigation _____

Other (describe) _____

4. **DESCRIPTION OF WATER DELIVERY SYSTEM:** *Include dimensions and type of construction of diversion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

5. **PROJECT SCHEDULE:** *(List month and year)*

Proposed date construction work will begin _____

Proposed date construction work will be completed _____

Proposed date water use will be completed _____

NOTE: A map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the subject property are required under ORS 537.140 and OAR 690 as a part of your application. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. a) In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):

X Applicant CWRE Other (Identify in REMARKS section)

b) In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):

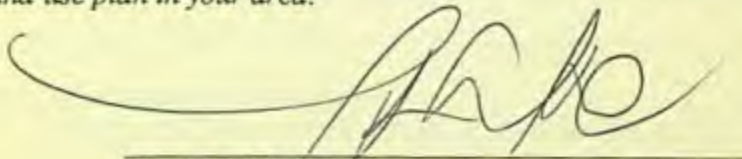
X Applicant CWRE Other (Identify in REMARKS section)

7. Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? . If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.

NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS: _____

NOTE: The permit, when issued, is for the beneficial use of water without waste. By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan. It is possible the land use you propose may not be allowed if it is not in keeping with the goals and acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.



Signature of Applicant

5-29-91

Date

Signature of Co-Applicant, if any

Date

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions 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 7th day of June, 1991, at 8:0 o'clock, A M.

APPLICATION NO: 6-12568

6-12568



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

JUN 7 1991
WATER RESOURCES DEPT.
SALEM, OREGON

May 23, 1991

Mr. John R. Straughan, P. E.
Technical Service Engineer
Department of Human Resources
Oregon Health Division
1400 SW. 5th Avenue
Portland, OR 97201

RE: City of Dundee - New Wells
J.O. 441.405.0

Dear Mr. Straughan:

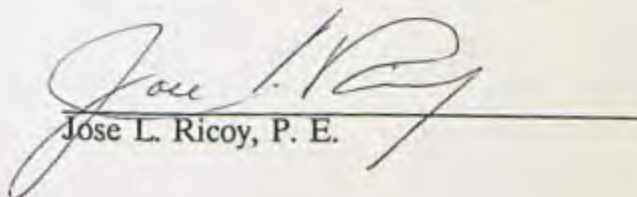
Enclosed please find two (2) copies of the revised Preliminary Report, vicinity map and site plan to reflect the inclusion of the proposed third well located at Alder Street for the New Wells Project for the City of Dundee.

Corrections to the specifications to include the third well at Alder Street will be done with your comments before issuing final specification for bidding.

Should you have any questions or require any additional information, please contact us at 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.


Jose L. Ricoy, P. E.

JLR/also
Enclosures

cc: Mr. Alan Mustain ✓
City of Dundee

I. Purpose

The purpose of this report is to obtain the State of Oregon Health Division approval to proceed with drilling a new well within the existing City water shed, a second well in the vicinity of 1st Street and a third well located off Alder Street. Included in this report is:

1. Description of Project
2. Vicinity Map with Topography
3. Site Plan
4. Specifications for Well Drilling

II. Project Description

The City of Dundee will be constructing three new wells to supplement its water supply. One new well will be located within the City owned watershed (see attached site plan), northeast of the City's existing well field. A second new well will be located in the vicinity of 1st Street and the third well will be located off Alder Street both of these are in the City of Dundee.

The watershed has no potential sanitary hazards at the present time. As can be seen on the topographic vicinity map (attached), drainage within the watershed comes from the hills in the west flowing generally eastward forming Harvey Creek.

The first well will be located at approximately the 440 foot elevation. It is anticipated, from the previous wells, that the new well will be about 230 feet deep and produce approximately 150 gpm. The aquifer depth is approximately 100 feet and has produced quality water in the past.

The 1st Street well will be located at approximately the 230 foot elevation. It is anticipated from analysis of surrounding wells, that the new well will be about 230 feet deep and produce approximately 150 gpm. The aquifer depth is approximately 85 feet.

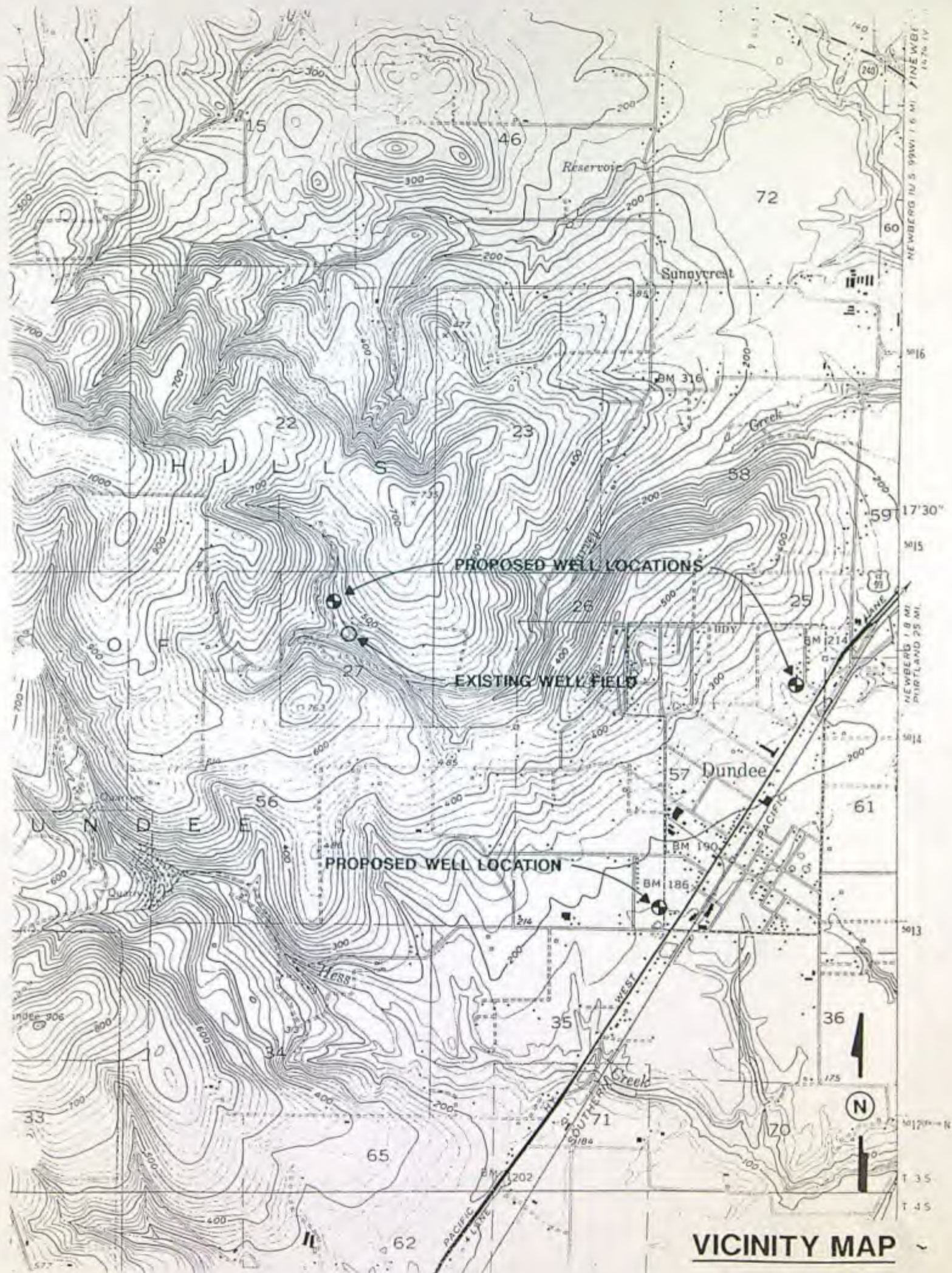
The Alder Street well will be located at approximately the 180 foot elevation. It is anticipated from analysis of surrounding wells that the new well will be about 400 feet deep and produce approximately 500 gpm. The aquifer depth is approximately 180 feet.

III. Well Construction

The wells will be constructed per the attached specifications. After the wells drilling and pumping tests are completed, the following data and information will be submitted to the Health Division for approval:

1. Drillers Report
2. Pump Test Results
 - a. Static Water Level

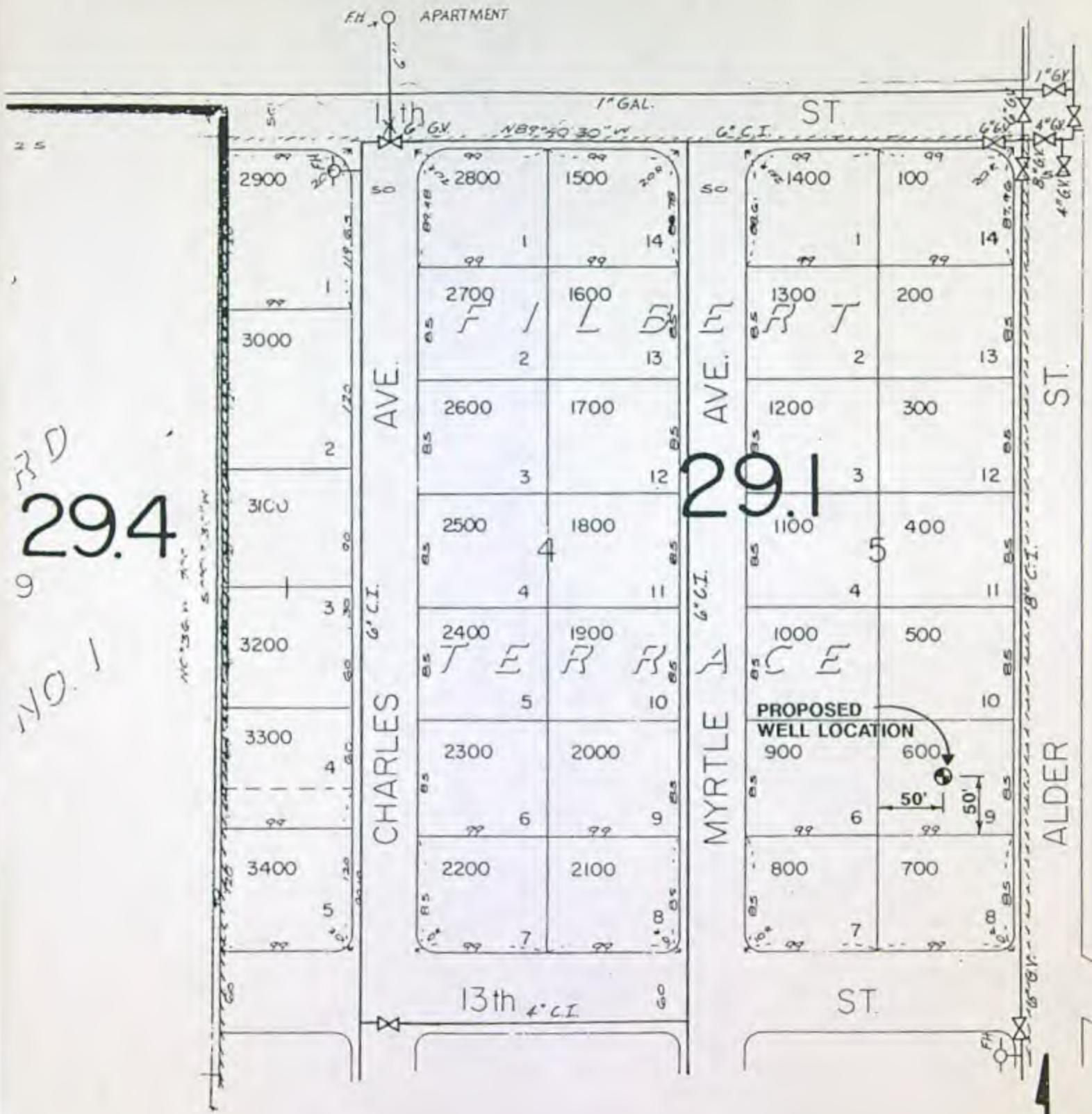
- b. Drawdown Level
 - c. Rate of Recovery
 - d. Physical, Chemical and Microbiological Quality of Water
 - c. Pumping Rates of Well
3. Plans and Specifications for Well Completion
 4. How the Well Can be Connected to Existing Water System



[illegible]

Ⓝ

29.4
29.1



SITE PLAN

April 22, 1996

Kimberly Priestley
WaterWatch of Oregon
213 SW Ash, Suite 208
Portland, OR 97204

RE: See Attached List

Dear Ms. Priestley:

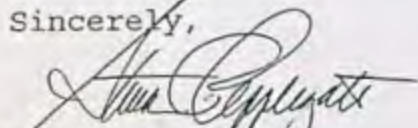
We have received your letter dated March 13, 1995, received by fax on March 13, 1996, regarding the application files described on the attached list.

You ask that the Department refund the majority of any protest fees that WaterWatch has submitted in the event no contested case hearing is held. While there may be certain circumstances wherein the Director may, based on the issue of fairness, decide to refund all or part of a previously submitted protest fee. As a general rule however, since the fee is intended to offset the Department's costs to analyze and respond to issues raised in the protest, we would not anticipate a refund.

As you may recall, the Commission did agree (as a related matter) to amend OAR 690-02-035 to require the Director to refund a "standing" fee if no protest is filed and there is no change to the proposed order. As to copies of the final order, we have agreed to send signed copies of all final orders to the applicant, and to anyone who filed a timely protest, regardless of whether a hearing is held.

Please feel free to contact me if you have any questions and I will be happy to address any concerns you may have.

Sincerely,


Steven P. Applegate
Acting Administrator
Water Rights and Adjudication

SPA/dpc
Enclosure
cc: Martha Pagel, Director
Water Right Staff



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

Attachment A

G-12227 - Decker Farms
G-12568 - City of Dundee
G-12626 - Plexus Gold (Kinross)
73119 - Plexus Gold (Kinross)
73120 - Plexus Gold (Kinross)
73121 - Plexus Gold (Kinross)
72420 - Watson Escola Partners
G-12731 - City of Redmond
G-12792 - Reams Golf
G-13030 - Brown
G-13408 - Port of Morrow
71841 - Fraser
71842 - Fraser
72888 - Anderson
73411 - City of Vale
G-12742 - Montgomery
71161 - Worthylake
71220 - McElroy
G-12769 - Ritter
G-12994 - Cheyne
G-13198 - Gallup
G-12493 - Circle Five Ranch
G-12494 - Circle Five Ranch
G-13097 - City of Bend
G-13098 - City of Bend
G-12924 - Avion Water Company
68341 - Whitehorse Ranch
71084 - Taylor

Water Watch



Delivered via FAX and Regular Mail

March 13, 1995

Steve Applegate
Water Rights Section
Water Resources Department
158 12th Street NE
Salem, OR 97310

RE: Final Orders for Applications
G12227, Decker Farms, Willamette
G12568, City of Dundee, Willamette *Bill F*
G12626, Plexus Gold (Kinross), Willamette
73119, Plexus Gold (Kinross), Willamette
73120, Plexus Gold (Kinross), Willamette
73121, Plexus Gold (Kinross), Willamette
72420, Watson Escola Partners, Umpqua
G12731, City of Redmond, Deschutes
G12792, Reames Golf, Klamath
G13030, Brown, Deschutes
G13408, Port of Morrow
71841, Fraser, New River (South Coast)
71842, Fraser, New River (South Coast)
72888, Anderson, N. Umpqua
73411, City of Vale, Malheur
G12742, Montgomery, Deschutes
71161, Worthylake, Umpqua
71220, McElroy, Siuslaw
G12769, Ritter, Klamath
G12994, Cheyne, Klamath
G13198, Gallup, Klamath
G12493, Circle Five Ranch, Klamath
G12494, Circle Five Ranch, Klamath

RECEIVED

MAR 14 1995

Dear Steve:

WaterWatch filed protests to these applications under the old statutes which guaranteed protesters a copy of the final order and any correspondence relating to the protested application. As such, we expect to receive a copy of the signed final order for each of these protested applications. We request immediate response on this.

Sincerely,
K. Priestley
Kimberley Priestley
Legal/Policy Analyst

cc: Martha Pagel

September 22, 1993

CITY OF DUNDEE
P.O. BOX 220503-538-3922
DUNDEE, OREGON 97115

WATER
RESOURCES
DEPARTMENT

Reference: G-12568

City of Dundee:

Under separate cover I have enclosed our report of technical review. This process is fairly new to staff and has taken more time to complete than anticipated; however, we believe that the process is more fair and will allow staff to deal with issues in a more timely manner. I truly apologize for the delay.

The technical review reveals that your proposed use of water is for municipal purposes. Prior to issuance of the permit, we will need to receive total fees in the amount of \$350; being an examination fee of \$200.00, and permit recording fee for municipal use of \$150. Since you have previously submitted \$200, an additional amount of \$150 is required.

It will be necessary for you to submit a signed copy of the land use form from both the city and county. I have enclosed the original land use form with this letter. In addition, you need to identify the project's schedule. Please let us know the month and year that the proposed well construction will start and be completed, and when the water use will be completed.

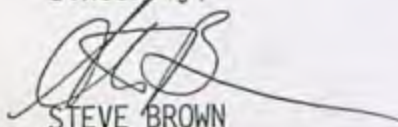
We need copies of the legal descriptions for the well sites. This could be copied from deeds or title insurance policies. If the city does not own the land upon which the wells will be located, a copy of the easements to the use the land must accompany your application.

As you are aware, the city has several other water rights of record from several sources. Will any of these rights be canceled?

After submission of legal descriptions, or authorizations or easements to lands that you do not own, fees, project schedule, land use forms, information as to what about older rights, and the deadline for objections to the technical review expires, staff will again review the file for objections and further process your application as soon as possible.

Please feel free to contact me if you have any questions and I will be happy to address any concerns you may have.

Sincerely,


STEVE BROWN
Manager
Water Rights Division

cc:Westech Engineering, Inc., CWRE



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

MEMORANDUM

Date: November 29, 1994

To: File G-12568 - City of Dundee

From: Steve Brown
Water Rights Program Analyst
Water Right/Adjudication Division

Subject: Omission in proposed permit conditions

Oregon Administrative Rule 690-502-160 (3), requires all permits proposing the use of water from basalt aquifers contain resource protection conditions. This standard does apply to all pending applications in the Willamette Basin.

The following condition must be included as part of the public interest review:

The water user shall report a March static water level in the well(s) to the Groundwater/Hydrology Section of the Water Resources Department by April 15 of each year. The measurement shall be made and calculations detailed by a certified water rights examiner, registered professional geologist, certified engineering geologist, or professional engineer.

Use of water from the well(s) shall not be allowed if the well(s) displays an (A) average water level decline of 3 or more feet per year for 5 consecutive years, or (B) a water level decline of 15 or more feet in fewer than 5 consecutive years, or (C) a water level decline of 25 or more feet, or (D) a hydraulic interference decline of 25 or more feet in any neighboring well with senior priority which provides water for an authorized use.

The Water Resources Department has determined that the initial water level in the well(s) are those of the initial March report. That is the level from which the cited declines in (A), (B) and (C) above will be referenced.

1181

3/14/96

We now use condition 7I to address the demands of the OAR.
The language above is incomplete.

-Donn Miller

WaterWatch

O F O R

RECEIVED

4/21/94

FACSIMILE TRANSMISSION

DEPT.
ONDate: 4/13/94To: Water RightsFax Number: 1-503-378-81From: Karen RussellFax Number: 503-227-6847Total Pages Being Sent, including this page: 3

If there are any problems receiving this transmission,
please telephone WaterWatch immediately at 503-295-4039.

Re: Water Watch Protest of 6-12568 (filed by messenger today)

Message: Please note that there is an error on the cover
page of this protest that was filed today with a \$25 check.
We ask that you substitute this ~~cover~~ ^{first attached cover} page for the one
sent by special messenger.

Thank you Karen Russell

If you have
any questions
please
call.

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE
INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY
CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND
EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE
READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU
ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION,
OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED.
IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR,
PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AND RETURN
THE ORIGINAL MESSAGE TO US AT THE ADDRESS BELOW. THANK
YOU.

WaterWatch

O F O R E G O N

RECEIVED

APR 13 1994

FACSIMILE TRANSMITTAL COVER SHEET WATERWATCH SOURCE DEPT.
SALEM, OREGON

Date: 4/13/94
To: Water Rights
Fax Number: 1-503-378-8130
From: Karen Russell
Fax Number: 503-227-6847
Total Pages Being Sent, including this page: 3

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YOU.

WaterWatch

O F O R E G O N

Delivered by Messenger

April 13, 1994

Oregon Water Resources Department
Water Rights Section
158 12th Street NE
Salem, Oregon 97310

Re: Protest of Application:
G-12568, City of Dundee, Municipal, 1.78 cfs, Harvey Creek, Willamette River

Dear Water Rights Section:

On March 14, 1994, WaterWatch received the Department's denial of our objections to the above referenced application. The public interest and policy issues raised in WaterWatch's objections were either not addressed, or not satisfactorily addressed, by the Department's denial letter. WaterWatch files this protest pursuant to OAR 690-11-175(5) and 690-02-030 to 080.

A. Facts

The facts are as outlined in WaterWatch's objection letter of November 29, 1993 and as found in the application file. WaterWatch notes that the Water System Evaluation and Master Plan for the City of Dundee, Oregon dated April, 1993, and filed with the Department after WaterWatch's objections were filed, does not include any reference to water conservation or conservation planning.

B. Relief Requested

WaterWatch requests that this application be denied as currently proposed. WaterWatch is willing to work with the applicant to try to resolve our concerns with this proposed new use.

C. Name and address of Persons having Interest in Proceeding

The following people are known to WaterWatch as having an interest in this proceeding:

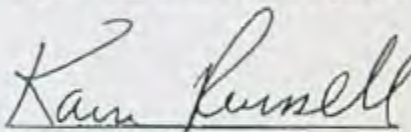
City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

Certificate of Service

I certify that on this 13th day of April, 1994, a copy of WaterWatch's correction of the cover page for the Protest of Application G-12568 was served on each of the following by first class mail, postage paid, in the United States Mail from Portland, Oregon, enclosed in a sealed envelope and addressed as follows:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

Signed this 13th day of April, 1994

A handwritten signature in cursive script, appearing to read "Karen Russell", written over a horizontal line.

Karen Russell

WaterWatch

O F O R E G O N

RECEIVED

APR 14 1994

WATER RESOURCES DEPT.
SALEM, OREGON

Delivered by Messenger

April 13, 1994

Oregon Water Resources Department
Water Rights Section
158 12th Street NE
Salem, Oregon 97310

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City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

RECEIVED

APR 14 1994

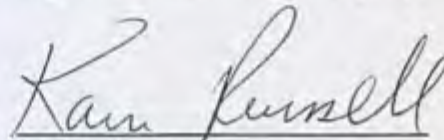
**WATER RESOURCES DEPT.
SALEM, OREGON**

Certificate of Service

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City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

Signed this 13th day of April, 1994


Karen Russell

RECEIVED

APR 14 1994

WATER RESOURCES DEPT.
SALEM, OREGON

TRANSACTION REPORT

APR-13-94 WED 13:50

SEND

#	DATE	S. T.	NAME	TIME	PGS	NOTE	DP
01	APR-13	13:49	15033786130	1' 23"	3	OK	

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **111011**

158 12TH ST N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

**RECEIVED
FOR THE COUNTER**

RECEIVED FROM: Water Works
BY: Theresa Doe

APPLICATION	C-12588
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 24-12 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 25.00

01-00-0 WRD MISC CASH ACCT

842.010	ADJUDICATIONS	\$
831.087	PUBLICATIONS / MAPS	\$
830.650	PARKING FEES Name / month	\$
	OTHER: (IDENTIFY)	\$

REDUCTION OF EXPENSE

CASH ACCT. \$

COST CENTER AND OBJECT CLASS

VOUCHER #

03-00-0 WRD OPERATING ACCT

MISCELLANEOUS:

840.001	COPY FEES	\$
850.200	RESEARCH FEEDS	\$
880.109	MISC REVENUE: (IDENTIFY)	\$
520.000	OTHER (P-6) (IDENTIFY)	\$

WATER RIGHTS:

842.001	SURFACE WATER	\$	842.002	\$
842.003	GROUND WATER	\$	842.004	\$
842.005	TRANSFER	\$	842.006	\$

WELL CONSTRUCTION

842.022	WELL DRILL CONSTRUCTOR	\$	842.023	\$
	LANDOWNER'S PERMIT	\$	842.024	\$

OTHER (IDENTIFY)

EXAM FEE

\$
\$
\$
\$
\$

RECORD FEE

\$
\$
\$
\$
\$
\$

EXAM FEE

LICENSE FEE

06-00-0 WELL CONST START FEE

842.013	WELL CONST START FEE	\$	CARD #	
	MONITORING WELLS	\$	CARD #	

45-00-0 LOTTERY PROCEEDS

864.000	LOTTERY PROCEEDS	\$
---------	------------------	----

07-00-0 HYDRO ACTIVITY

LIC NUMBER

842.011	POWER LICENSE FEE (FW/WRD)	\$
842.115	HYDRO LICENSE FEE (FW/WRD)	\$

HYDRO APPLICATION

\$

RECEIPT # **111011**

DATED: 4/13/99 BY: Cory Engel

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



(503) 241-0484

ACCT. NO. 851624

NON-NEGOTIABLE AIRBILL SHIPPER'S AGENT
PICKUP TIME AND DATE

DRIVER

PDX 863865

CGR:

DATE

DECLARED VALUE

\$

NAME <i>Karen Russell</i>		TELEPHONE <i>(503) 255-4034</i>		NAME <i>Water Rights Section (503)</i>		TELEPHONE	
FROM: COMPANY NAME <i>WaterWatch of Oregon</i>				TO (FROM): COMPANY NAME <i>Oregon Water Resources Department</i>			
ADDRESS <i>921 S.W. Morrison, Suite #38</i>				ADDRESS <i>158 12th St. NE</i>			
CITY <i>Portland</i>		STATE <i>OR</i>		CITY <i>Salem</i>		STATE <i>OR</i>	
		ZIP <i>97205</i>				ZIP REQUIRED <i>97310</i>	
REFERENCE <i>Protest to 6-12568 City of Portland</i>				DEPT./ORDER NO.			

THIRD PARTY BILLING	NAME	ADDRESS	CITY	STATE	ZIP
---------------------	------	---------	------	-------	-----

NO. PCS.	DESCRIPTION	WEIGHT	RATE	AMOUNT
1	envelope			

AIR EXPRESS		LOCAL DELIVERY	SPECIAL INSTRUCTIONS	ADVANCED FEES
NEXT DAY A.M. (DELIVER WED-THUR)	☐ EXPRESS LETTER (UP TO 9 lbs)	☐ SUPER RUSH	<i>Please send us a receipt with date + time of delivery</i>	
INTERNATIONAL	☐ EXPRESS ENVELOPE (UP TO 2 lbs)	☐ DIRECT (1 HOUR DEL - 40/50)		WRONG ADDRESS
*NEXT DAY BY 9	☐ CUSTOMER PACKAGE (OVER 2 lbs)	☐ DEFERRED (1 HOUR DEL)		WAITING TIME
*SATURDAY SVC.	☐ OVERNIGHT TUBE	☐ ROUND TRIP		OTHER
*SAME DAY		☐ ROUTE		ATTEMPT
*LATE PICKUP				LATE PICKUP
*EXTRA CHARGE APPLIES			DEL. DEADLINE <i>5:00 PM 4/13</i>	TOTAL

RECEIVED BY <i>X [Signature]</i>	TIME <i>4:15</i>	DATE <i>4/13/94</i>	RETURN TO
-------------------------------------	---------------------	------------------------	-----------

SEE REVERSE SIDE FOR CONDITIONS OF CARRIAGE; LIMITATIONS OF LIABILITY.

WaterWatch

O F O R E G O N

Delivered by Messenger

ED
APR 13 1994
WATER RIGHTS SECTION
SALEM, OREGON

April 13, 1994

Oregon Water Resources Department
Water Rights Section
158 12th Street NE
Salem, Oregon 97310

Re: Protest of Application:
G-12568, City of Dundee, Municipal, 1.78 cfs, Harvey Creek, Willamette River

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A. Facts

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B. Relief Requested

WaterWatch requests that this application be denied as currently proposed. WaterWatch is willing to work with the applicant to try to resolve our concerns with this proposed new use.

C. Name and address of Persons having Interest in Proceeding

The following people are known to WaterWatch as having an interest in this proceeding:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

RECEIVED
APR 13 1994
WATER RESOURCES DEPT.
SALEM, OREGON

D. Legal Authority and Basis for Claim

The Legal Authority and Basis for the Claim are as outlined in WaterWatch's November 29, 1993 objections.

Sincerely,



Karen A. Russell
Assistant Director

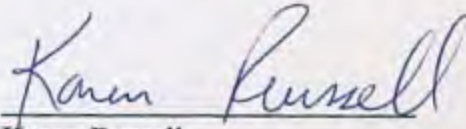
Certificate of Service

I certify that on this 13th day of April, 1994, a copy of WaterWatch's Protest of Application G-12568 was served on each of the following by first class mail, postage paid, in the United States Mail from Portland, Oregon, enclosed in a sealed envelope and addressed as follows:

City of Dundee
P.O. Box 220503-538-3922
Dundee, OR 97115

RECEIVED
APR 13 1994
CLERK OF DISTRICT COURT
PORTLAND, OREGON

Signed this 13th day of April, 1994


Karen Russell

TECHNICAL REVIEW CHECKLIST

FORM-71393

(1) Application: G-12568

(2) Review Date: _____

S Indicates information was completed or adequately addressed.
U Indicates information is needed, or incomplete, or inadequately addressed
N/A Indicates Not Applicable

SUMMARY

_____ Completeness
_____ Land Use
_____ GW Interference (if potential interference with surface water, see results of water availability analysis)
_____ Conflicts
_____ Water Availability

(3) N/A The applicant has certified that the information provided in the application is an accurate representation of the proposed use and is true and correct to the best of their knowledge.

(4) S No oath is required because application was filed before June 5, 1992.

(5) S Application fees:

Examination fee:	\$ 200.00
Recording fee:	\$ 150.00
TOTAL REQUIRED	\$ 350.00
TOTAL SUBMITTED	\$ 200.00
AMOUNT DUE prior to issuance of permit	\$ 150.00
AMOUNT OVERPAID	
refund due applicant	\$ —

(6) U Proposed dates of beginning and completion of construction, and complete application of water.

(7) S MAP: ☒ Prepared by a CWRE
_____ Exempt under OAR 690-11-150(3)
_____ A map or drawing included (non-CWRE)
_____ No map or drawing in file

- (8) N/A A CWRE map is not required for applications filed before November 9, 1987.
- (9) N/A A written copy of the legal description of the property on which the water is to be used.
- (10) U A copy of written authorization, contract or easement permitting access to the land or reservoir not owned by the applicant.
- (11) S The proposed use is not restricted or prohibited by statute.
- (12) S The source of water is not withdrawn from appropriation by order of the State Engineer or Water Resources Commission, or legislatively withdrawn under ORS Chapter 538.
- (13) S MUNICIPAL use(s) is/are classified uses(s) under the WILLAMETTE Basin Program, OAR 690 - _____.
- (14) ✓ The application, map and supporting data are complete and free of defects.

Land Use Compatibility:

- (15) As expressed by the Planning Department of Yamhill Co.
- (16) _____ The land uses to be served by proposed water uses (including proposed construction) are allowed or are not regulated by the local comprehensive plan (ordinance section _____).
- (17) _____ The land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals which have been obtained.
- (18) _____ The local government was notified, and sent no comment pursuant to the rules at the time; land use was presumed in compliance per such statement printed on the application.

For ground water applications:

- (20) HS A copy of the constructor's log, if available, for any well already constructed, or required information regarding actual or anticipated construction.
- (21) S The report from groundwater section has been received.

For reservoir applications:

- (22) N/A Plans, specifications and supporting information for the dam and impoundment area.

file G-12568



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

JUL 02 1991

WATER RESOURCES DEPT.
SALEM, OREGON

July 1, 1991

Mr. Steve Applegate
Manager of Water Rights Section
Oregon Water Resources Department
3850 Portland Road NE.
Salem, OR 97310

RE: City of Dundee - New Wells
J.O. 441.405.0

Dear Mr. Applegate:

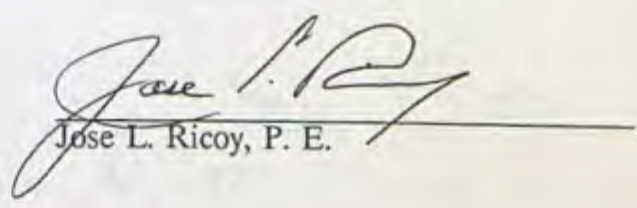
Enclosed please find two (2) copies of the Application map for the water wells for the City of Dundee.

As I explained to you in our phone conversation of July 1, 1991, the original application map for this well was in error. The correct site location for this well is for Lots 9-13, Block 6 of Filbert Terrace Subdivision instead of Block 5 as mistakenly submitted. This will move the well from Section 26 to Section 35. Please substitute the correct copy of the Application for a permit to appropriate ground water, for the City of Dundee.

Thank you very much for your understanding.

Sincerely,

WESTECH ENGINEERING, INC.



Jose L. Ricoy, P. E.

JLR/also
Enclosures
cc: Ms. Molly Strand
City of Dundee

WaterWatch

O F O R E G O N

RECEIVED

NOV 30 1993

By Fax and Regular Mail

WATER RESOURCES DEPT.
NOVEMBER 29, 1993 SALEM, OREGON

Oregon Water Resources Department
Water Rights Section
3850 Portland Road NE
Salem, Oregon 97310

Re: Objection to Technical Report for:
G-12568, City of Dundee, Municipal, Harvey Creek, Willamette

WaterWatch submits the following objections pursuant to OAR 690-11-170:

♦ **The Technical Report is Defective**

The technical report fails to contain many of the elements and evaluations required in OAR 690-11-160(1).

♦ **The Water Availability Analysis in the Technical Report is Defective**

The analysis is defective for the following reasons:

- There was no analysis of water availability in the technical report as required under OAR 690-11-160(1)(f).
- The Department concluded that the proposed ground water use will interfere with surface waters but failed to analyze whether water was available for use from Harvey Creek and the Chehalem Creek Basin. Neither the technical report nor the application file contain any analysis of water availability.¹

¹ The analysis must take into account existing water rights of record. The analyses should take into account upstream water rights. Merely assuming the streamflow data reflects the amount of use or by using estimates of consumptive use. Both methods fail to adequately consider rights-of-record. At any given moment there may be valid, but unexercised water rights in a basin. Water users may at any time use the water to which they are legally entitled up to the limit of their rights-of-record. Failure to account for future increases in water use pursuant to rights-of-record results in an over-estimation of water availability and over-allocation of the resource. This is contrary to the statewide Water Allocation Policy. OAR 690-400-010.

Any water availability analyses must differentiate between natural flows and regulated flows (water released from upstream storage) in the Willamette River mainstem. As you

- Failure to determine the amount of water available for this proposed use is contrary to ORS 537.620(3).

◆ **The Use As Proposed is Not in the Public Interest**

The proposed use fails to pass the public interest considerations in ORS 537.170, ORS 537.525 and 537.620. *See also*, OAR 690-11-195(3)(d), (4)(a), (4)(c)(A), (4)(d)(A), (4)(f).

- ◆ **A public interest determination on this groundwater application is impossible because essential information appears to be missing.**

The technical report contains a condition which requires a pump test prior to receiving a certificate. A pump test provides information relating to the extent the ground water use will interfere with surface waters and aquifer properties. This information is critical for the public interest determination and should be obtained prior to a final public interest determination. If, after this information is obtained, and the use is found to be in the public interest, then this proposed condition should be amended to require periodic pump tests during the life of these permits and certificate. The condition should not, however limit the Director's ability to require pump tests. We suggest language that would require pump tests "annually or as deemed needed by the Director."

◆ **Measurement and Reporting**

In general, we support the proposed measurement and reporting conditions. However, proposed condition #5 should allow the Director to require measurement and reporting of both **rate and duty** of water use. The proposed permit conditions restrict use based upon a specific rate. Measurement and reporting of water use is to be a useful informational and regulatory tool for the Department, it should provide the information needed to ensure that water use is within the terms of the permit.

know, there are several storage facilities in this river system which release stored water into the Willamette mainstem. Failure to differentiate between natural flows and regulated flows in the analysis overestimates the amount of natural flow available for use downstream and may result in the over-allocation of the resource. This is contrary to the statewide Water Allocation Policy. OAR 690-400-010. As a policy matter, the Department should differentiate between stored water and natural flow in it's water availability analyses for new permits and in its regulation activities on existing permits.

- ♦ **The proposed use violates Oregon's statewide policies.**

Oregon's Groundwater Management Policy requires that "(i)nterference between groundwater uses and competing groundwater and surface water uses . . . be prevented and/or controlled to protect the water resource and existing rights." OAR 690-410-010(1). The Policy also requires the State to manage groundwater and surface water conjunctively in order to protect the public's interest in the water resource and existing rights. OAR 690-410-010(2)(a). In addition, Oregon's Statewide Water Allocation Policy requires that groundwater use occur within the capacity of the resource and requires the State to protect Oregon's waters from overallocation by new uses of groundwater. OAR 690-410-070(1).

Oregon statutes and rules also call for the state to "aggressively promote" water conservation and places a high priority on eliminating waste and improving the efficiency of water use. ORS 537.460(2)(a) and OAR 690-410-060(1). Proposed conditions #7 and #12 do little to further these policies. A conservation management plan should be in place prior to the issuance of this supplemental permit. This applicant has existing water rights for approximately 6.88 cfs of water. Conservation should be the first "source" of water for the City - rather than expansion into new water supplies. Given the ground water/surface water interference problem that exists for these proposed wells, the status of fish populations in the Willamette basin, the water quality problems in the Willamette mainstem it is imperative that any use allowed be held to a strict efficiency standard **prior** to any use under this proposed permit.

Allowing this proposed use to go forward violates all these policies. The Department's failure to manage the ground and surface waters conjunctively in the Willamette River basin will exacerbate existing overallocation problems, water quality problems, and will further impair existing surface water rights. It is bad public policy to continue issuing groundwater rights in the face of increasing doubts as to whether increased use in this area is sustainable.

- ♦ **Land Use Compatibility and Substantiating Need**

The technical report failed to contain an evaluation of the compatibility of this proposed use with land use plans as required under OAR 690-11-160(1)(h). There did not appear to be a land use compatibility form in the application file at the Department. The application fails to meet the requirements of the rules that require land use compatibility determination **prior** to issuing a permit. Thus, the WRD can not make the necessary compatibility findings to allow for issuance of this permit.

In addition, question whether the proposed use is compatible with, or contemplated by, the City's Comprehensive Land Use Plan. There was no analysis of existing population

Water Resources Department

G-12568

Page 4

size, and the projected population within the 20 year planning horizon. There was no analysis of whether the City's **existing** water use permits and certificates are sufficient to meet growth projections. There was also no evaluation of whether the amount of water requested is necessary to achieve the proposed water use. OAR 690-11-160(1)(g). This request for water must be based upon growth projections that are substantiated in the City's Comprehensive Plan.

It appears that the City's existing water rights are sufficient to support growth beyond that currently projected. Currently, the City has 6 certificated water rights totalling approximately 1.6 cfs. The City also has three permits totalling approximately 5.3 cfs. The City has requested extensions of time to develop two of the three permits, and is awaiting certification on the third. Altogether, the City has approximately existing certificates and permits totaling 6.88 cfs, 4 cfs of which has yet to be developed. Why hasn't the City developed its existing sources of water? It is bad public policy to be issuing an additional permit when the City has failed to develop its existing sources of water. If this proposed use is intended to be a **substitute** for some of these existing sources, then this applicant should be required to abandon the unused rights in exchange for the use proposed under this application.

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Condition # 13 requires the City to, within a year of permit issuance, prepare a "plan/timetable" which will "indicate the steps which the City intends to pursue to obtain a long-term water supply." While WaterWatch supports the concept of long term water supply planning, this condition does little to further **meaningful** long term water supply planning. The condition is standardless. It only requires a "plan" for the "steps" that the City "intends" to pursue. This condition should require, among other things, that the City develop and implement a plan within a specified time. The condition should also include a requirement that the City consider a "no growth" alternative.

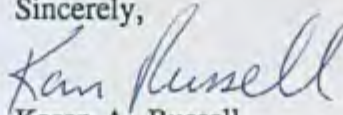
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Water Resources Department
G-12568
Page 5

♦ Conclusion

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Karen A. Russell
Assistant Director

WaterWatch

O F O R E G O N

RECEIVED

NOV 30 1993

By Fax and Regular Mail

WATER RESOURCES DEPT.
SALEM, OREGON
November 29, 1993

Oregon Water Resources Department
Water Rights Section
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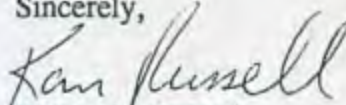
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Water Resources Department
G-12568
Page 5

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Sincerely,

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Karen A. Russell
Assistant Director

Application No. 6-12568

RECEIVED

JUN 7 1991

WATER RESOURCES DEPARTMENT
SALEM, OREGON

State of Oregon
WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Ground Water

Applicant(s) City of Dundee
(Please print or type - use dark ink)
Mailing Address: P.O. Box 220
Dundee, Oregon 97115 (503) 538-3922
City State Zip Daytime Phone No.

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

1. **THE DEVELOPMENT** (number of wells, tile lines, infiltration galleries, etc.):
three (3) wells

If development is less than one mile from a natural stream, give the following:

Distance from development to stream: _____

Elevation difference between streambed and development: _____

NOTE: Wells must be constructed according to standards set by the department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well driller's log with this application, and skip to Section 2 below.

Wells have not been constructed.

Diameter of well: _____ Depth in feet: _____

Type and size of well casing: _____ No. of feet: _____

Estimated depth to water: _____

Type of access port or measuring device: _____

Wells to be drilled by: _____

Address: _____

If the water well is flowing artesian, describe your water control and conservation works: _____

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use: 1.78 cubic feet per second, OR 800 gallons per minute. If water is to be used from more than one ground water source, give the quantity of water from each: 1 @ 150 gpm, 1 @ 150 gpm, and 1 @ 500 gpm.

3. **INTENDED USE(s) OF WATER:** Municipal Use

If for more than one use, give the quantity of water from each source for each use; _____

If for DOMESTIC use, state the number of households to be supplied; _____

If for MUNICIPAL OR QUASI-MUNICIPAL use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)

Present Population 1,663

If for MINING use, state the nature (gold, silver, etc.) of the mines to be served; _____

If for IRRIGATION, or other land area use, state the TOTAL number of acres to be developed under each use;

Irrigation _____

Other (describe) _____

4. **DESCRIPTION OF WATER DELIVERY SYSTEM:** *Include dimensions and type of construction of diversion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

5. **PROJECT SCHEDULE:** *(List month and year)*

Proposed date construction work will begin _____

Proposed date construction work will be completed _____

Proposed date water use will be completed _____

NOTE: A map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the subject property are required under ORS 537.140 and OAR 690 as a part of your application. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. a) In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):

☒ Applicant ☐ CWRE ☐ Other (Identify in REMARKS section)

b) In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):

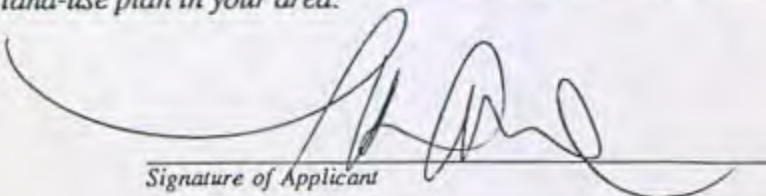
☒ Applicant ☐ CWRE ☐ Other (Identify in REMARKS section)

7. Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? _____. If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.

NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS: _____

NOTE: The permit, when issued, is for the beneficial use of water without waste. By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan. It is possible the land use you propose may not be allowed if it is not in keeping with the goals and acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.


Signature of Applicant

5-29-91
Date

Signature of Co-Applicant, if any

Date

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions 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 _____,
Oregon, on the _____ day of _____, 19____, at _____ o'clock, ____ M.

APPLICATION NO: _____

Description of Water Use

Note to Applicant: This sheet will provide local planning staff with a basic description of your proposed water use. Please fill out this sheet before bringing the attached land use form to your local planning office. It will help local planning offices complete your land use information form quickly.

Note to Local Planning Officials: Please initial this sheet. Do not separate it from the land use information form. If needed, please make a separate copy for your records.

Applicant Name: City of Dundee
 Address: P.O. Box 220
Dundee, OR 97115
 Phone: (503) 538-3922

Please indicate what you will use the water for. Check all boxes that apply and fill in the blanks with key characteristics of the project

- ☐ Irrigation (crop type, golf course, nursery or greenhouse): _____
- ☐ Livestock (type of livestock, feedlot, slaughterhouse): _____
- ☐ Residential (# units, single or multi-family, # lots if partition or subdivision): _____
- ☐ Commercial (i.e., retail, office, restaurant, gas station, hotel, service, etc.): _____
- ☐ Industrial (i.e., factory, pulp mill, research and development, processing, etc.): _____
- ☐ Institutional (i.e., school, library, etc.): _____
- ☐ Mining (aggregate, metal, open pit, placer, etc.): _____
- ☐ Recreation (park, campsite, pond, etc.): _____
- ☐ Fish and Wildlife (pond, hatchery, etc.): _____
- ☐ Hydropower (dam, reservoir, power generating or transmitting facilities): _____
- ☒ Other (Name and list key characteristics): Municipal use for 1,663 population

Indicate sources for the proposed water use below:	Indicate the estimated quantity of water the use will require.
☐ Surface Water Name sources: _____ _____ _____	<u>1.78</u> Cubic feet per second. <u>800</u> Gallons per minute. _____ Acre-Feet
☐ Reservoir or pond	
☐ Ground Water	

RECEIVED

JUN 7 1981

WATER RESOURCES DEPT.
SALEM, OREGON

Application No. 6-12568

State of Oregon
WATER RESOURCES DEPARTMENT

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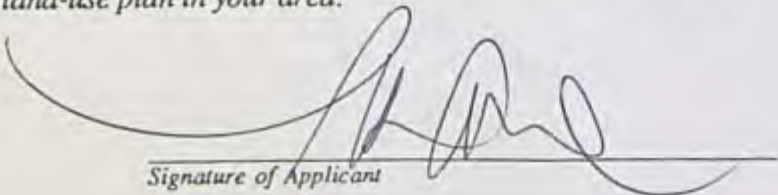
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Applicant Name: City of Dundee
 Address: P.O. Box 220
Dundee, OR 97115
 Phone: (503) 538-3922

Please indicate what you will use the water for. Check all boxes that apply and fill in the blanks with key characteristics of the project

- ☐ Irrigation (crop type, golf course, nursery or greenhouse): _____
- ☐ Livestock (type of livestock, feedlot, slaughterhouse): _____
- ☐ Residential (# units, single or multi-family, # lots if partition or subdivision): _____
- ☐ Commercial (i.e., retail, office, restaurant, gas station, hotel, service, etc.): _____
- ☐ Industrial (i.e., factory, pulp mill, research and development, processing, etc.): _____
- ☐ Institutional (i.e., school, library, etc.): _____
- ☐ Mining (aggregate, metal, open pit, placer, etc.): _____
- ☐ Recreation (park, campsite, pond, etc.): _____
- ☐ Fish and Wildlife (pond, hatchery, etc.): _____
- ☐ Hydropower (dam, reservoir, power generating or transmitting facilities): _____
- ☒ Other (Name and list key characteristics): Municipal use for 1,663 population

Indicate sources for the proposed water use below:	Indicate the estimated quantity of water the use will require.
☐ Surface Water Name sources: _____ _____ _____	<u>1.78</u> Cubic feet per second. <u>800</u> Gallons per minute. _____ Acre-Feet
☐ Reservoir or pond	
☐ Ground Water	

RECEIVED

JUN 7 1951

SALEM, OREGON

Applicant's Name: City of Dundee
Address: P.O. Box 220
City: Dundee State: OR Zip: 97115 Day Phone: (503) 538-3922

Tax Lot or Local I.D.#	Plan Designation/Zoning (e.g. Rural Residential/RR-5)	Check All That Apply		
		Water Diverted	Water Conveyed	Water Use
	See attached existing service area			

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within city limits. In this case, only the city planning agency must complete this form. Please request extra forms as needed.

Local government planning officials are to complete the remainder of this form. If this form cannot be completed while the applicant waits, please sign and detach the receipt as instructed below. Please mail the completed form directly to the Water Resources Department (3850 Portland Rd. NE, Salem, OR, 97310) within 60 days of the date of receipt as shown below. If the form is not completed within 60 days, the Department may take action to approve the water use.

☐ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____, Go to section b) on reverse side.

[illegible]

(over)

WRD Applicant Name:

City or County: _____

Staff Contact: _____ Phone: _____

Signature: _____ Date of Information Request: _____

2

b) Please provide printed name and written signature.

Name: _____

Title: _____

Date: _____

Phone: _____

Signature: _____

Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet. For additional information call Roberta Jortner or Rick Bastasch at 378-3671.

Additional Comments:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

RECEIVED

JUN 7 1991

WATER RESOURCES DEPT.
SALEM, OREGON



APPLICATION MAP

T.3 S., R.3 W. SEC.25, 26, & 27

NEW WELL LOCATION
(WELL NO.7A)

NEW WELL LOCATION
(FIRST ST. WELL)

NEW WELL LOCATION
(ALDER ST. WELL)

CITY
OF
Dundee

SERVICE
BOUNDARY

NOTE: MAP IS FOR THE INTENDED PURPOSE OF
A WATER RIGHT APPLICATION AND DOES NOT INTEND
TO DIMENSION PROPERTY OR OWNERSHIP LINES.

0 1/4 1/2 MILE
0 1320 2640 FEET

SCALE
Certified Water Right Examiner
163
Jon E. Erwin
May 17, 1990
STATE OF OREGON

R. 2 W.

RECEIVED
JUN 7
S. I.

Uses In 7,1981

Land Use Information Form: Permits, Hydroelectric Licenses, Water Uses In
Addition to Classified Uses

This information is needed to determine compatibility with local comprehensive plans as required by QRS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT FILL OUT THIS FORM IF water is to be diverted, conveyed, and/or used only on federal lands.

Applicant's Name: City of Dundee
Address: P.O. Box 220
City: Dundee State: OR Zip: 97115 Day Phone: (503) 538-3922

Please provide information as requested below for all tax lots on or through which water will be diverted or used. (Attach extra sheets as necessary.) Applicants for municipal use, or irrigation uses within irrigation districts, may substitute existing and proposed service area boundaries for the tax lot information requested below.

Tax Lot or Local I.D.#	Plan Designation/Zoning (e.g. Rural Residential/RR-5)	Check All That Apply		
		Water Diverted	Water Conveyed	Water Use
	See attached existing service area			

Please list all counties and cities within which water is proposed to be diverted, conveyed, and/or used. Yamhill

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within city limits. In this case, only the city planning agency must complete this form. Please request extra forms as needed.

For Local Government Use Only

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a) Check the appropriate box below and provide requested information.

- ☐ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____. Go to section b) on reverse side.
- ☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below. Note: Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus any accompanying findings is sufficient.)

[illegible]

(over)

Receipt for Request for Land Use Information .

WRD Applicant Name: _____

This receipt must be signed by a local government representative and returned to the applicant for inclusion in the WRD application IF the local government can not provide the above requested land use information while the applicant waits.

City or County: _____

Staff Contact: _____ Phone: _____

Signature: _____ Date of Information Request: _____

6-12568

Description of Water Use

Note to Applicant: This sheet will provide local planning staff with a basic description of your proposed water use. Please fill out this sheet before bringing the attached land use form to your local planning office. It will help local planning offices complete your land use information form quickly.

Note to Local Planning Officials: Please initial this sheet. Do not separate it from the land use information form. If needed, please make a separate copy for your records.

Applicant Name: City of Dundee
 Address: P.O. Box 220
Dundee, OR 97115
 Phone: (503) 538-3922

RECEIVED

JUN 7 1991

WATER RESOURCES DEPT.

CLATSOP COUNTY, OREGON

Please indicate what you will use the water for. Check all boxes that apply and fill in the blanks with key characteristics of the project

- ☐ Irrigation (crop type, golf course, nursery or greenhouse): _____
- ☐ Livestock (type of livestock, feedlot, slaughterhouse): _____
- ☐ Residential (# units, single or multi-family, # lots if partition or subdivision): _____
- ☐ Commercial (i.e., retail, office, restaurant, gas station, hotel, service, etc.): _____
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- ☐ Fish and Wildlife (pond, hatchery, etc.): _____
- ☐ Hydropower (dam, reservoir, power generating or transmitting facilities): _____
- ☒ Other (Name and list key characteristics): Municipal use for 1,663 population

Indicate sources for the proposed water use below:	Indicate the estimated quantity of water the use will require.
☐ Surface Water Name sources: _____ _____ _____	<u>1.78</u> Cubic feet per second. <u>800</u> Gallons per minute. _____ Acre-Feet
☐ Reservoir or pond	
☐ Ground Water	

March 25, 1993

CITY OF DUNDEE
PO BOX 220
DUNDEE, OR 97115

REFERENCE FILE: G-12568

ATTN: ALAN MUSTAIN

During your telephone discussion with Steve Brown last December, he understood that you would provide us with copies of the three well logs and would submit a master plan regarding water needs for the city of Dundee.

Will you advise us as to when we could expect to receive this information?

Sincerely,

Thomas E. Shook
Water Right Specialist



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



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

FEB 17 1994

**WATER RESOURCES DEPT.
SALEM, OREGON**

February 16, 1994

Mr Ed Gabriel
Water Resources Department
3850 Portland Rd NE
Salem, OR 97310

RE: Dundee Municipal Water Rights
JO 441.100.0

Dear Mr. Engel:

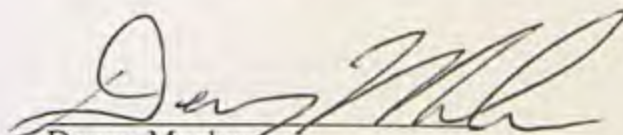
This letter is to follow up on your telephone conversation with Mr. Chuck Lund concerning the water right permit File No. G12568) for the City of Dundee.

As requested, please find enclosed a copy of the land use form which you requested. This was filled out and completed some time ago but not submitted pending the finalization of the remaining paperwork to be submitted to WRD. Due to the recent change in staff at the City, there has been a slight delay in completing the required paperwork. It will be forwarded to you as soon as it is complete.

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.



Denny Muchmore
City of Dundee Engineering

drm

cc: Mr. Chuck Lund, City of Dundee

Planning Official Initials: _____

Description of Water Use

Note to Applicant: This sheet will provide local planning staff with a basic description of your proposed water use. Please fill out this sheet before bringing the attached land use form to your local planning office. It will help local planning offices complete your land use information form quickly.

Note to Local Planning Officials: Please initial this sheet. Do not separate it from the land use information form. If needed, please make a separate copy for your records.

Applicant Name: City of Dundee
 Address: P.O. Box 220
Dundee, OR 97115
 Phone: (503) 538-3922

RECEIVED

FEB 17 1994

WATER RESOURCES DEPT.
SALEM, OREGON

Please indicate what you will use the water for. Check all boxes that apply and fill in the blanks with key characteristics of the project

- ☐ Irrigation (crop type, golf course, nursery or greenhouse): _____
- ☐ Livestock (type of livestock, feedlot, slaughterhouse): _____
- ☐ Residential (# units, single or multi-family, # lots if partition or subdivision): _____
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- ☐ Institutional (i.e., school, library, etc.): _____
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☐ Surface Water Name sources: _____ _____ _____	<u>1.78</u> Cubic feet per second. <u>800</u> Gallons per minute. _____ Acre-Feet
☐ Reservoir or pond	
☐ Ground Water	

FEB 17 1994

1954
SER RESOURCES DEPT.
SALEM, OREGON

Land Use Information Form: Permits, Hydroelectric Licenses, Water Uses in
Addition to Classified Uses

This information is needed to determine compatibility with local comprehensive plans as required by QRS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT FILL OUT THIS FORM IF water is to be diverted, conveyed, and/or used only on federal lands.

Applicant's Name: City of Dundee
Address: P.O. Box 220
City: Dundee State: OR Zip: 97115 Day Phone: (503) 538-3922

Please provide information as requested below for all tax lots on or through which water will be diverted or used. (Attach extra sheets as necessary.) Applicants for municipal use, or irrigation uses within irrigation districts, may substitute existing and proposed service area boundaries for the tax lot information requested below.

Tax Lot or Local I.D.#	Plan Designation/Zoning (e.g. Rural Residential/RR-5)	Check All That Apply		
		Water Diverted	Water Conveyed	Water Use
	See attached existing service area			

Please list all counties and cities within which water is proposed to be diverted, conveyed, and/or used: Yamhill

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within city limits. In this case, only the city planning agency must complete this form. Please request extra forms as needed.

For Local Government Use Only

Local government planning officials are to complete the remainder of this form. If this form can not be completed while the applicant waits, please sign and detach the receipt as instructed below. Please mail the completed form directly to the Water Resources Department (3850 Portland Rd. NE, Salem, OR, 97310) within 60 days of the date of receipt as shown below. If the form is not completed within 60 days, the Department may take action to approve the water use.

a) Check the appropriate box below and provide requested information:

- ☒ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____ Go to section b) on reverse side.
- ☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below. Note: Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus any accompanying findings is sufficient.)

[illegible]

(over)

Receipt for Request for Land Use Information

WRD Applloant Name: CITY OF DUNDEE

This receipt must be signed by a local government representative and returned to the applicant for inclusion in the WRD application IF the local government can not provide the above requested land use information while the applicant waits.

City or County: CITY OF DUNDEE, YAMHILL COUNTY, OREGON

Staff Contact: MIKE UNGER, CITY PLANNER Phone: 588-6177

Signature: See Following Page Date of Information Request:

RECEIVED

FEB 17 1994

WATER RESOURCES DEPT.
SALEM, OREGON

(For Local Use Continued)

b) Please provide printed name and written signature.

Name: Michael J. Uhl

Title: Mayor

Date: 5 Oct 93

Phone: 588-6177

Signature: [Signature]

Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet. For additional information call Roberta Jortner or Rick Bastasch at 378-3671.

Additional Comments:

[Lined area for additional comments]

G-12568

G 12568

City of De Leon

Neil Coen

538-3922

→ 11/11/92

Allen

  Westech

12/2/92

Talked to Allen Mo. of City and
asked for (1) Well Logs
(all 3 wells drilled)
and 2) Master Plan re
proj. water needs

ASB

→ Allen
Mustane!
538-6700

200

100

450

9 x 5

750



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

RECEIVED

SEP 28 1992

WATER RESOURCES DEPT.
SALEM, OREGON

September 25, 1992

Mr. Steven Brown
Water Rights Division
Water Resources Department
3850 Portland Road NE
Salem, OR 97310

RE: Groundwater Well Application - Spring, 1st St, Alder St. Wells, Dundee, Oregon
J.O. 441.405.0

Dear Mr. Brown:

In May 1991, the City of Dundee submitted an application for a permit to appropriate groundwater for a municipal well. The application was received on June 14, 1991 and given the file number No. G12568.

Per our September 22, 1992 phone discussion, the application has been reviewed and was found to be a valid application. Our understanding of the remaining steps before a permit can be issued is as follows:

- ▶ Technical review by Water Resources Department (WRD)
- ▶ Water Resources Board review and approval
- ▶ Public Notice period
- ▶ Issuance of the permit

After issuance of the permit water can be withdrawn from the source in compliance with Oregon law.

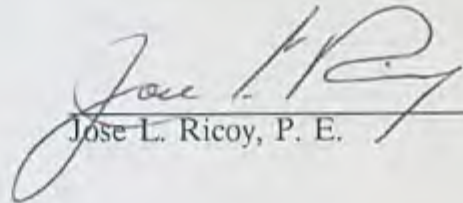
Based upon our phone discussion, we understand WRD has a significant backlog of applications waiting to be processed. To date, the City has expended more than \$55,000 in well drilling and is in the process of investing an additional \$144,000 in pumping equipment, building and controls. The City urgently needs to place these wells into operation to supply the much needed demand as a result of new housing development and, therefore, requests WRD's prompt handling of the application.

September 25, 1992
Mr. Steven Brown
Water Rights Division
Page 2

In order that we can keep the City appraised of the application review and approval process, we request you send us a letter listing the approximate time requirement for each of the applications' remaining steps and likely completion date for the permit. We appreciate your cooperation on this matter.

Sincerely,

WESTECH ENGINEERING, INC.



Jose L. Ricoy, P. E.

JLR/als

cc: Mr. Alan Mustain, City of Dundee

October 26, 1992

Jose L. Ricoy, PE
Westech Engineering, Inc.
3421 25th Street SE
Salem, OR 97302-1191

Reference: Files G-12568 - City of Dundee
G-12570 - City of Junction City

Dear Mr. Ricoy:

We have received your request to hurry the review of the above referenced applications for permit.

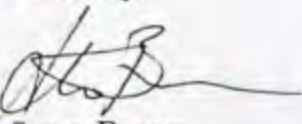
Letters and phone conversations with staff show or say we consider such requests. This practice is no longer a policy of the Department.

Unless there is a threat to the health and welfare of the citizens of the state, the review of the applications must proceed, along with others, in the order of the date received. We will complete technical and public interest reviews of the applications as soon as possible.

Staff may ask the Director to approve an application only after successfully completing technical and public interest reviews.

The applications will receive a fair review under the law.

Sincerely,



Steve Brown
Senior Water Rights Specialist
Field Operations Division

cc: City of Dundee
City of Junction City
0874



DRAFT

STATE OF OREGON
COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
P.O. BOX 220
DUNDEE, OREGON 97115

503-538-3922

to use the waters of THREE WELLS in the CHEHALEM CREEK BASIN for MUNICIPAL USE.

This permit is issued approving Application G-12568. The date of priority is JUNE 7, 1991. The use is limited to not more than 1.78 CUBIC FEET PER SECOND, or its equivalent in case of rotation, measured at the well.

The wells are located as follows:

SW 1/4 NW 1/4, SECTION 25, SW 1/4 SE 1/4, SECTION 26, NW 1/4 NE 1/4, SECTION 27, T 3 S, R 3 W, W.M.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the proposed place of use under this permit is as follows:

NW 1/4 NW 1/4
SW 1/4 NW 1/4
SW 1/4
SW 1/4 SE 1/4
SECTION 25
NE 1/4
SW 1/4 NW 1/4
NE 1/4 SW 1/4
SE 1/4 SW 1/4
SE 1/4
SECTION 26
N 1/2 NE 1/4
SECTION 35
NE 1/4
N 1/4 NW 1/4
SE 1/4 NW 1/4
NE 1/4 SW 1/4
N 1/2 SE 1/4
SECTION 36

TOWNSHIP 3 SOUTH, RANGE 3 WEST

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

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

DRAFT

PAGE TWO

Actual construction work shall begin on or before , and shall be completed on or before October 1, 1993. Complete application of the water shall be made on or before October 1, 1994.

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

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

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

The use of water shall be limited when it interferes with any prior surface or ground water rights.

Issued this date,.

Water Resources Department
William H. Young
Director

Application No. 6-12568
Permit No.

NEW WELL LOCATION
(WELL NO.7A)

NEW WELL LOCATION
(FIRST ST. WELL)

NEW WELL LOCATION
(ALDER ST. WELL)

SERVICE
BOUNDARY

NOTE: MAP IS FOR THE INTENDED PURPOSE OF



SCALE
Certified Water Right
163

6-12568

June 20, 1991

Dear Applicant or Interested Party:

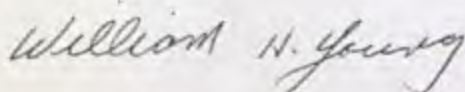
You may have been informed that the Water Resources Department was delaying the processing of applications for permits to use surface water and groundwater from portions of the Willamette basin until the new basin rules are adopted. There has been a change. On May 31, 1991, the Water Resources Commission decided to allow the processing of water use permit applications submitted after April 18, 1991 if an applicant voluntarily agrees to the Department's use of both the current and proposed basin rules in evaluating the application.

The Commission encourages applicants to wait until the new rules are adopted to have their applications processed. However, if an application is processed, and found to be inconsistent with the proposed rules, the Department will hold the application until rule adoption. No application will be rejected only on the basis of inconsistency with the proposed rules.

The Commission's purpose in delaying the processing of applications is to prevent additional water supply and water quality problems in the basin. However, it became apparent that holding all applications until the new basin rules are adopted could be too strict. Of particular concern are several of wetland restoration and enhancement projects which could lose public funding if made to wait until rule adoption. There are also a number of agricultural and municipal applicants that would benefit from this more flexible approach.

If you have any questions, please call Steve Applegate or Roberta Jortner at 378-3739.

Sincerely,



William H. Young
Director



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