1

Application No. 34141 34141

Permit No. 26901 *

Certificate No.

Stream Index, Page No. 15 - 60F

Name City of Grants Pass Water Department

By City Hall, 3rd and "H" Streets

Address Grants Pass, Oregon 97526

Date filed July 19, 1960

Priority July 19, 1960

Action suspended until ... C 2040 / PRINTING PROOF "next 40"

Returned to applicant

Date of approval September 20, 1960

CONSTRUCTION

Date for beginning September 20, 1964

Date for completion October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79 10-1-84 10-1-89 10-1-94, 10-1-99, 10-1-2040

Date for application of water October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79 10-1-84 10-1-89 10-1-94, 10-1-99, 10-1-2040

PROSECUTION OF WORK

Form "A" filed October 1, 1961

Form "B" filed

Form "C" filed

FINAL PROOF

Blank mailed

Proof received

Date certificate issued

*AMENDED by special order

V. 52 pg. 759

Extension

FEES PAID

Date	Amount	Receipt No.
7-19-60	5.00	26320
8-23-60	10.00	26704
6-20-90	100.00	64461
11-25-94	100.00 B. P. Fee	119179
8/14/02	100.00 $1 Cert. Fee	S 4515

FEES REFUNDED

Date	Amount	Check No.
11/19/14	212.35	VP0392223

ASSIGNMENTS

Date	To Whom	Address	Volume	Page

REMARKS

25.0 c.f.s. from Rogue River for municipal.

Date	Amount	Receipt #
7/14/14	950.00	112739

SEP 22 1951 CARD FOR A

OCT 16 1964 CARD FOR

OCT 30 1969 CARD FOR B-C

OCT 15 1974 CARD FOR B-C

Card for BC OCT 23 1979

Card for BC OCT 19 1984

Card for BC OCT 18 1989

APR 20 1990

Form 10C sent

C Card 10-17-94

V52 P759

W.R.I.S.

Assembled 7.19.85 by

Entered ____ by ____

Verified ____ by ____

State Printing Dept. 49368

Form A

Application No. 34141

NOTICE OF BEGINNING OF CONSTRUCTION

I, City of Grants Pass, the holder of Permit No. 26901 to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the 10 day of July, 1961.

Remarks: New settling basin ready for pour. New 24" line from low head pumps installed.

The appropriator should state the manner of beginning construction work, number of men employed, the amount of work completed up to the date of this statement, and any additional information which may tend to show the beginning of work in good faith.

IN WITNESS WHEREOF, I have hereunto set my hand this 25 day of September, 1961.

Robert Casey, City Engineer — City Hall 4th & H Grants Pass Oreg

(Signature of Applicant) (Address)

Fill out, detach, and mail to the State Engineer, Salem, Oregon, when construction work is begun.

State Printing 14974

RECEIVED SEP 26 1961 STATE ENGINEER

Form B

Application No. 34141

NOTICE OF COMPLETION OF CONSTRUCTION

I, City of Grants Pass, the holder of Permit No. 26901 to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the 15th day of June, 1962.

Remarks: Rated capacity of installed river pumps: 1 @ 4000 gpm 75 hp - 1 @ 3,300 gpm 50 hp - 1 @ 2600 gpm 40 hp - 1 @ 750 gpm 15 hp

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

IN WITNESS WHEREOF, I have hereunto set my hand this 20th day of October, 1964.

Roy Eames City Manager — City Hall Grants Pass, Oregon

City of Grants Pass (Signature of Applicant) (Address)

Fill out, detach, and mail to the State Engineer, Salem, Oregon, when construction work is completed.

RECEIVED OCT 21 1964 STATE ENGINEER

Oregon
John A. Kitzhaber, MD, 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.wrd.state.or.us

February 25, 2015

City of Grants Pass
Attention: Jason Canady
101 NW 'A' Street
Grants Pass, OR 97526

REFERENCE: CONSUMPTIVE USE PERCENTAGES APPROVAL
Water Right Application S-34141 (Permit S-26901)
Water Right Application S-41672 (Permit S-45827)
Water Right Application S-64732 (Permit S-47346)

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification that "Consumptive Use Percentages" have been approved for each of the permits referenced above for a 10 year period ending February 24, 2025. If such changes to either wastewater technology or the practices at the City's waste water treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates and receiving the Water Resources Director's concurrence with the new proposed Consumptive Use Percentages.

Consumptive Use Percentages may be utilized for the purpose of calculating the maximum amount of the undeveloped portion of the above referenced permits (or subsequent certificates) that can be diverted as a result of the Fish Persistence Condition on the extension Final Order dated January 24, 2014.

I have enclosed a copy of OWRD's concurrence with the Consumptive Use Percentages received from the City of Grants Pass on Feb 20, 2015.

If you should have any questions concerning your extension request you may contact me at (503) 986-0834.

Sincerely,

Ann L. Reece
Municipal Extensions Specialist

Enclosures

cc: Application File S-34141
Application File S-41672
Application File S-64732
Katherine Smith, Watermaster District # 14
Adam Sussman, GSI Water Solutions

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

"Consumptive Use Percentages" Update Form

TO THE WATER RIGHTS ADMINISTRATOR
OF THE OREGON WATER RESOURCES DEPARTMENT

Re: Fish Persistence Condition Applicable to:
Application S-34141 / Permit S-26901 modified by Permit Amendment T-8032

Permit Holder: City of Grants Pass

"Consumptive Use Percentages" Updates

1. **For each month listed below, provide the consumptive use percentage for the purpose of calculating the maximum total amount of the undeveloped portion of Permit S-26901 modified by Permit Amendment T-8032 that can be diverted as a result of the fish persistence condition on the extension Final Order Dated June 13, 2014.**

Month	Consumptive Use Percentage	Month	Consumptive Use Percentage
January	1.6 %	July	47.7 %
February	0 %	August	46.2 %
March	0.5 %	September	35.0 %
April	13.4 %	October	33.3 %
May	14.2 %	November	3.8 %
June	33.0 %	December	6.8 %

2. **Provide a description and justification of the methods utilized to determine the percentages. Please attach additional pages as necessary.**

See Attachment C.

3. **The use of these "Consumptive Use Percentages" for the purposes stated above may continue for a 10 year approval period unless further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates due to changes in wastewater technology and/or the wastewater treatment plant or due to relocation of the point(s) of diversion(s) and/or return flows.**

Signature _____ Date 2/9/15

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FEB 20 2015
SALEM, OR

For OWRD use only

WRD Concurs with these "Consumptive Use Percentages" Updates ☒ Yes ☐ No

Approved by: _____ Date: 2-24-15
for the Water Resources Director

City of Grants Pass
"Where The Rogue River Runs"

February 4, 2015

Ann Reece
Water Resources Department
North Mall Office Building
725 Summer Street, NE, Suite A
Salem, OR 97301-1266

RE: The City of Grants Pass Consumptive Use Related to Permit S-26901

Dear Ann,

The Final Order on Extension of Time for Permit S-26901 held by the City of Grants Pass (City) allows the use of "Consumptive Use Percentages." The City understands that Consumptive Use Percentages allow the City to receive credit for return flows from the wastewater treatment plant (for the purpose of calculating the maximum amount of the undeveloped portion of the permit that can be diverted as a result of fish persistence conditions).

The Final Order states that first-time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that the withdrawal point and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving OWRD's concurrence with the proposed Consumptive Use Percentages.

The City has enclosed evidence that ODFW has determined that the withdrawal point and effluent discharges are within reasonable proximity to each other in Attachment A and has developed Consumptive Use Percentages for determining the "credit" (i.e. reduced curtailment) that the City should receive, which are shown on the required Consumptive Use Percentages Form in Attachment B and described in detail in Attachment C.

If you have any questions or need any additional information, please contact me at 541-450-6119, or Adam Sussman of GSI Water Solutions, Inc. at 541-257-9001.

Sincerely,

Jason Canady
Water Treatment Plant Superintendent

Enclosure

Cc: Adam Sussman, GSI Water Solutions, Inc.

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FEB 20 2015
SALEM, OR

Attachment A

ODFW Letter

RECEIVED BY OWRD

FEB 20 2015

SALEM, OR

Suzanne de Szoeke

From: Tim S Hardin <tim.s.hardin@state.or.us>
Sent: Tuesday, November 18, 2014 2:25 PM
To: Suzanne de Szoeke
Subject: RE: Status: Grants Pass Consumptive Use Percentage requirement

Hi Suzanne,

ODFW agrees that the withdrawal point (RM 103) and the effluent discharge point (RM 100.5) are in close enough proximity that fish habitat will not be impacted significantly, and that the Consumptive Use percentages can be used in the curtailment calculations for the three water rights listed below.

Tim Hardin

Tim Hardin
Instream Flow Specialist
Oregon Department of Fish and Wildlife
4034 Fairview Industrial Drive SE
Salem, OR 97302
ph. 503-947-6093
fax 503-947-6070
email: Tim.S.Hardin@state.or.us

From: Suzanne de Szoeke [mailto:SDeSzoeke@gsiws.com]
Sent: Monday, November 17, 2014 4:25 PM
To: Tim S Hardin <tim.s.hardin@state.or.us> (tim.s.hardin@state.or.us)
Subject: Status: Grants Pass Consumptive Use Percentage requirement

Tim,
Did you have a chance last week to look into the Grants Pass proximity question below?
Cheers,
Suzanne

Suzanne de Szoeke
Water Resources Consultant | GSI Water Solutions, Inc.
direct: 541-257-9006 | cell: 541-224-4588
1600 SW Western Blvd., Suite 240, Corvallis, OR 97333
www.gsiws.com | bio | sdezoeke@gsiws.com

RECEIVED BY OWRD
FEB 20 2015
SALEM, OR

From: Suzanne de Szoeke
Sent: Wednesday, October 29, 2014 8:58 AM
To: Tim S Hardin <tim.s.hardin@state.or.us> (tim.s.hardin@state.or.us)
Cc: Adam Sussman
Subject: Grants Pass Consumptive Use Percentage requirement

Tim,
The City of Grants Pass (City) wants to utilize Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portions of Permits S-47346, S-26901 (modified by Permit Amendment T-8032), and S-45827 that can be diverted as a result of their fish persistence conditions. In order to do so, the Final Orders for the extension of time for these permits state that the City must provide "evidence in writing that ODFW has determined

that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly."

The intake of the City's water treatment plant is at approximately River Mile 103 on the Rogue River.
The location of effluent discharge from the City's wastewater treatment plant is at approximately River Mile 100.5 on the Rogue River.

Could you please confirm that the withdrawal point and effluent discharge point are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly?

Cheers,
Suzanne

Suzanne de Szoeke
Water Resources Consultant | GSI Water Solutions, Inc.
direct: 541-257-9006 | cell: 541-224-4588
1600 SW Western Blvd., Suite 240, Corvallis, OR 97333
www.gsiws.com | bio | sdezoeke@gsiws.com

Attachment B

Consumptive Use Percentages Form

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FEB 20 2015

SALEM, OR

Attachment C

Consumptive Use Percentages Method Description and Justification

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FEB 20 2015

SALEM, OR

Provide a description and justification of the methods utilized to determine the percentages.

The City calculated its consumptive use percentages using a combination of the following two methods. For the purposes of this analysis, consumptive use refers to water that enters the City's water distribution system and does not return to the Rogue River via the City's wastewater treatment plant.

Method 1

We calculated monthly consumptive use percentages using the typical method:

- Step 1: Average total production - average total effluent flows = average amount consumptive
    - Average total production = Average of the total production in the given month from 2009 through 2014.
        - Total production = Total finished water entering the City's water distribution system
    - Average total effluent flows = Average of the total effluent flows in the given month from 2009 through 2014
        - Total effluent flows = Total amount of water leaving the City's wastewater treatment plant, based on meter data at the point of outflow
    - Average amount consumptive includes distribution system losses
- Step 2: Divide the average amount consumptive by the average total production and multiplied by 100

This method resulted in the following percentages:

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Percent of Average Total Water Production Consumptive	47.7%	46.2%	35.0%	-0.8%	-50.9%	-112.7%	-104.6%	-106.2%	-139.5%	-65.9%	14.2%	33.0%

The percentages from October through April (highlighted) are likely negative due to the wastewater system capturing runoff/stormwater, so are not representative of consumptive use.

Method 2

To address the issue of the negative consumptive use percentages, we recalculated monthly consumptive use percentages for those highlighted months using average total winter (December-March) production instead of average total effluent flows.

Average total winter production was calculated as follows:

1. Averaged the total production for each winter month (December, January, February, and March) from 2009 through 2014

2. Then averaged the 6-year average total production of the winter months

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Assumptions:

- No outdoor irrigation occurs from December through March, so average total winter production represents water entering the water distribution system solely for indoor use
- Because average total winter production is only used indoors, all of that water ends up in wastewater collection pipes that go to the City's wastewater treatment plant
- All wastewater entering the City's wastewater treatment plant returns to the Rogue River once treated, so the average total winter production returns to the Rogue River, and therefore, is 0 percent consumptive.

Note: Average total winter production does not include stormwater, because this volume represents the finished water leaving the water treatment plant.

The idea is that average total winter production serves as a proxy for indoor water use, since outdoor water uses are usually minimal during these months. Thus, for a given month, the difference between the average total production and average winter production (i.e. water used exclusively indoors and completely returned to the Rogue River via the wastewater treatment plant) is consumptive water use (i.e. the amount of water that would not end up going back instream through the wastewater treatment plant as effluent flows).

We recalculated monthly consumptive use percentages for the highlighted months using the following method:

- Step 1: Average total production - average total winter (Dec-Mar) production = average amount consumptive
- Step 2: Divide the average amount consumptive by the average total production and multiply by 100

This approach resulted in the following percentages:

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Percent of Average Total Water Production Consumptive				33.3%	3.8%	6.8%	1.6%	-10.4%	0.5%	13.4%		

The result is that the consumptive use percentages fall in line with what would be expected during those months. February would be considered to have zero consumptive use.

Combination of Method 1 and Method 2

Thus, to reflect the consumptive use percentages expected throughout the year, we used Method 1 for May through September and Method 2 for October through April to calculate the consumptive use percentages.

This combined approach resulted in the following percentages:

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
Percent of Average Total Water Production Consumptive	47.7%	46.2%	35.0%	33.3%	3.8%	6.8%	1.6%	0%	0.5%	13.4%	14.2%	33.0%

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FEB 20 2015

SALEM, OR

Oregon
John A. Kitzhaber, MD, 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.wrd.state.or.us

June 27, 2014

City of Grants Pass
Attn: Terry S. Haugen, PE, Public Works Director
101 NW "A" Street
Grants Pass, OR 97526

Subject: Water Management and Conservation Plan

Dear Municipal Water Supplier:

Enclosed, please find the final order approving the City of Grants Pass' (City) Water Management and Conservation Plan (WMCP) and authorizing the diversion of up to 21.15 cfs of water under Permit S-26901. (*NOTE: As established in the final orders approving Extensions of Time for Permits S-45827 and S-47346, the diversion of water under Permit S-45827 remains limited to 0.0 cfs and the diversion of water under Permit S-47346 remains limited to 1.3 cfs.*)

The attached final order specifies that the City's WMCP shall remain in effect until **June 24, 2024**. Additionally, the City is required to submit a progress report to the Department by **June 24, 2019**, detailing progress made toward the implementation of conservation benchmarks scheduled in the plan. Finally, the City must submit an updated Water Management and Conservation Plan to the Department by **December 24, 2023**.

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 Grants Pass 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@wrd.state.or.us if you have any questions.

Sincerely,

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

Enclosure

cc: WMCP File
Application S-34141 (Permit G-26901)
Application S-41672 (Permit S-45827)
Application S-64732 (Permit S-47346)
Kathy Smith, District #14 Watermaster
Murray, Smith & Assoc., Inc., Attn: Mike McKillip, 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 Management and Conservation Plan for City of Grants Pass, Josephine County	)))	FINAL ORDER APPROVING A WATER MANAGEMENT AND 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 Grants Pass submitted a Water Management and Conservation Plan (plan) to the Water Resources Department (Department) on December 10, 2012. The plan was required by a condition set forth under the City's previously approved plan (*Sp. Or. Vol. 57, Pg. 166 issued on March 11, 2003*) and by conditions set forth in the final orders approving Extensions of Time for Permits S-26901, S-45827, and S-47346.

2. The Department published notice of receipt of the plan on December 18, 2012, 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 March 1, 2013. In response, the City submitted a revised plan on June 12, 2013.

4. The Department reviewed the 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 revised plan demonstrate a need for 21.15 cfs of water available under Permit S-26901 to help meet overall projected 20-year demands. These projections are reasonable and consistent with the City's land use plan.

6. The City's system is fully metered and their rate structure includes a base rate and volumetric charge. The City's unaccounted-for water is estimated at 8.8% percent.

7. The revised plan includes 5-year benchmarks for the City's continuation, evaluation, development, and/or implementation of programs to: perform annual water audits; maintain a fully metered system and the current meter testing and maintenance program; continue its leak detection program; maintain an annual budget for water main replacement, water meter

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.

replacement, and leak repair; maintain a rate structure based upon the amount of water metered at the service connection; provide education on water conservation via newsletters included with billing statements; maintain/expand the water conservation demonstration garden and feature it in mailings to highlight available low-water landscaping options; provide shower kits and faucet aerator kits; operation of the remaining bulk water dispensing station and temporary metered fire hydrant dispensing practices; and evaluate the feasibility and appropriateness of identifying , developing and implementing other programs including irrigation distribution system improvements, additional website content, supplier-financed incentive programs, and a 0.25 FTE staff person dedicated to the Business, Industry & Government (B.I.G.) program.

8. The revised plan identifies the Rogue River as the sole source of the City's water rights and accurately and completely describes the listed streamflow-dependent species that occur in the Rogue River in the vicinity of the City's diversion point. Those listed species are as follows: Chinook Salmon, Steelhead, Western Brook Lamprey, Pacific Lamprey (*all state-listed as sensitive-vulnerable*), and Coho Salmon (*federally-listed as threatened and state-listed as sensitive-vulnerable*). The revised plan also accurately and completely describes the water quality parameters for which this portion of the Rogue River has been identified by the Oregon Department of Environmental Quality as being water quality impaired. Those identified impairment parameters are: fecal coliform (*summer*); flow modification; temperature (*year around, non-spawning*); and dissolved oxygen (*October 15 through May 15 of each year*).

9. The water curtailment element included in the revised plan satisfactorily promotes water curtailment practices and includes a list of three stages of alert with concurrent curtailment actions.

10. The diversion of water under extended Permit S-26901 will be increased 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 Finding of Fact #7 above, the revised plan includes a schedule for the continuation, evaluation, development and/or implementation of conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources;

    b. The City anticipates the conservation measures described in the revised plan could result in reducing peak demand by up to 10 percent; however, this savings would not eliminate the City's need to divert more water under extended Permit S-26901 to meet projected peak water demands in 20 years. Additionally, the closest significant water supplier is Medford Water Commission, which does not have significant excess supply capacity and would require costly transmission facilities and treatment plant expansion to meet the City's 20-year supply needs. Considering these factors, increased diversion of water under the City's extended Permit S-26901 is the most feasible and appropriate water supply alternative available to the supplier at this time; and

    c. The revised plan identifies that the City is subject to conditions that establish flows (identified by the Oregon Department of Fish and Wildlife) necessary to maintain the persistence of listed fish species, as set forth in the final orders approving Extensions of Time for Permits S-26901, S-45827, and S-47346.

Conclusion of Law

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

Now, therefore, it is ORDERED:

1. The City of Grants Pass Water Management and Conservation Plan is approved and shall remain in effect until **June 24, 2024**, unless this approval is rescinded pursuant to OAR 690-086-0920.

2. The limitation of the diversion of water under Permit S-26901 established in the final order approving an Extension of Time for Permit S-26901 (*issued on June 13, 2014*) is removed. **Subject to other limitations or conditions of the permit, the City of Grants Pass is now authorized to divert up to 21.15 cfs under Permit S-26901.**

3. The limitation of the diversion of water under Permit S-45827 established in the final order approving an Extension of Time for Permit S-45827 *(issued on January 24, 2014)* remains unchanged. **Subject to other limitations or conditions of the permit, therefore, the City of Grants Pass is not currently authorized to divert any water under Permit S-45827.**

4. The limitation of the diversion of water under Permit S-47346 established in the final order approving an Extension of Time for Permit S-47346 *(issued on June 13, 2014)* remains unchanged. **Subject to other limitations or conditions of the permit, therefore, the City of Grants Pass is authorized to divert up to 1.3 cfs of water under Permit S-47346.**

5. The City of Grants Pass shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 086 within 10 years and no later than **December 24, 2023**.

6. The City of Grants Pass shall submit a progress report containing the information required under OAR 690-086-0120(4) by **June 24, 2019**.

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 Grants Pass 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 30 day of June, 2014.

Dwight French
Water Right Services Administrator, for
Director
Oregon Water Resources Department

Mailing date: JUL 02 2014

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

JOSEPHINE COUNTY

IN THE MATTER OF PARTIAL PERFECTION OF)
WATER RIGHT PERMIT S-26901 IN THE NAME) **ORDER**
OF THE CITY OF GRANTS PASS)

STATEMENT

On September 3, 2002 The Water Resources Department received a request from the City of Grants Pass to partially perfect the use of water under water right permit S-26901.

FINDINGS OF FACT

Permit S-26901 allows for the use of 25.0 cubic foot per second (cfs) from the Rogue River, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735.0 cfs, a tributary of the Pacific Ocean for municipal use.

The City has requested partial perfection of permit S-26901 and issuance of a water right certificate. The request was accompanied by the survey required under ORS 537.230(4). The survey shows, to the satisfaction of the Director, that the appropriation has been partially perfected in accordance with the provision of the Water Rights Act.

ORS 537.260 allows, without loss of priority or cancellation to the permit, the incremental perfection of the water right permit in an amount of not less than 25 percent, pursuant to ORS 537.260 and OAR 690-320-0040.

The Department finds that the City has perfected 16.95 cfs. The quantity of water is equal or greater than the 25 percent of the original quantity of water allowed under permit S-26901.

OAR 690-320-0040(5) allows municipal suppliers that incrementally perfect less than the full quantity of water to request further extension of time to complete construction and apply water to beneficial use for the remaining, unperfected quantity of water.

NOTICE OF RIGHT TO PETITION FOR JUDICIAL REVIEW OR RECONSIDERATION

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.482. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.482 and ORS 536.075. Pursuant to ORS 183.482, ORS 536.075 and OAR 137-003-0675, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

As of the date of this order, the City has an approved extension of time (to Oct 1, 2040) for this municipal water use permit to completely apply water to beneficial use under Permit S-26901.

ULTIMATE FINDING OF FACT

The City is now entitled to a certificate in the amount of 16.95 cfs. The Director has determined the permittee has complied with the requirements to partially perfect permit S-29601 pursuant to ORS 537.250 and 537.260.

ORDER

The Department finds that there is 8.05 cfs remaining to be perfected and that a certificate in the amount of 16.95 cfs shall be issued to the City of Grants Pass.

Dated NOV 14 2014

Dwight W. French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

Mailing List for Special Order - PARTIAL PERFECTION

Application #S-34141 Permit #S-26901 Date:

Original filed in Volume 93 Page 783

Copies Mailed
By: Connie Vance
(Support staff)
On: NOV 14 2014
(Date)

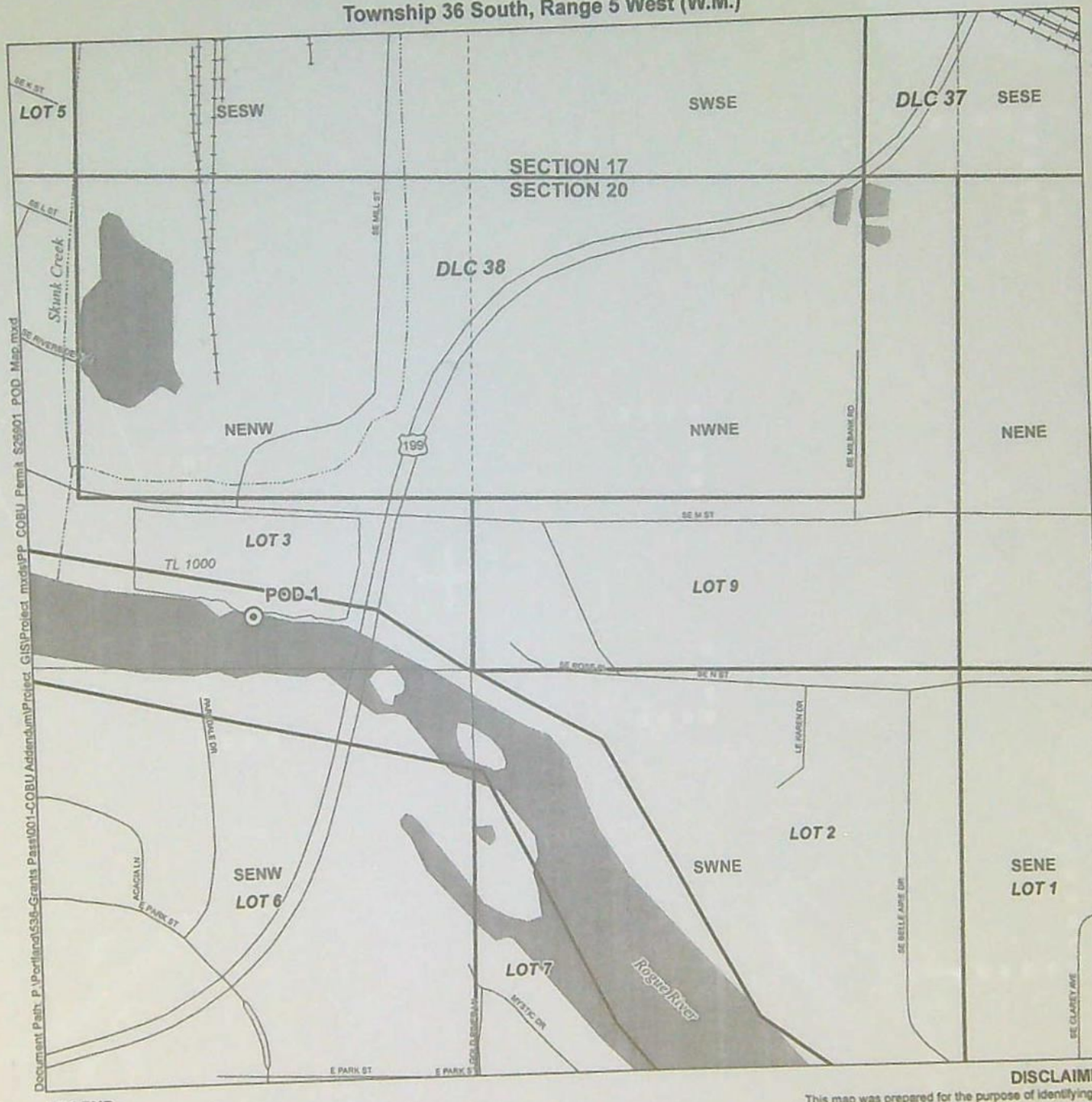
Copies sent to:

1. City of Grants Pass
2. 101 NW A ST
3. Grants Pass OR 97526
4. WRD – File # S-34141
5. Water Availability – Shawn Turner
6. WRD – Watermaster #14
7. CWRE - Ted Ressler

Partial Perfection Claim of Beneficial Use - Point of Diversion Map
Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

Township 36 South, Range 5 West (W.M.)



LEGEND

- Point of Diversion
- Donation Land Claims (DLCs) and Government Lots
- Roads
- Railroads
- Watercourses
- Waterbodies

POD LOCATION DESCRIPTION

POD 1
Located 317 feet South and 1,668 feet West from the S.SE corner J. Jones DLC No. 38

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON

EXPIRES: 12-31-2014

DISCLAIMER

This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:

Date: October 22, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI
Prepared By: GSI Water Solutions, Inc.

N

0 200 400
1 inch = 400 feet

GSI Water Solutions, Inc.

RECEIVED
JUL 18 2014
WATER RESOURCES DEPT
SALEM, OREGON

R6W R5W

T35S T36S T37S

Harris Creek · Soldier Creek · Morris Creek · Louse Creek · Lawson Creek · Lathrop Creek · Hillside Lateral · Riverside Lateral · Sand Creek · Jones Creek · East Fork Jones Creek · West Fork Jones Creek · Toe Jam Creek · Blue Gulch · Deamaran Canal · Toney Canal · Skunk Creek · East Fork Skunk Creek · Leigh Lateral · Main Canal · South Canal · Highline Canal · Evans Creek · South Highline Canal · Fruitdale Creek · Jewett Creek · Allen Creek · Williams Creek · Baum Slough

GEER RD · MONUMENT DR · AGNES RD · LLOYD DR · SOLDIER CREEK RD · DERRICK WAY · DONALDSON RD · HIGHLAND AVE · SW 2ND AVE · SW 6TH ST · SW 7TH ST · SW BRIDGE ST · NW SAVAGE ST · NE SAVAGE ST · NE MADRONE ST · NE A ST · NE E ST · NE K ST · NE 4TH ST · NE 6TH ST · NE 7TH ST · NE 9TH ST · NE 10TH ST · NE BROADWAY DR · GRANTS PASS PKWY · REDWOOD AVE · REDWOOD HWY · GLN · GRANTSVIEW AVE · WILLIAMS HWY · CLOVERLAWN DR · DEMARAY DR · NEW HOPE RD · JEROME PRAIRIE RD · 6TH CROKER MTN DR

5 · 99 · 199 · 238

LEGEND

- Place of Use (POU)
- Water Service Area Boundaries
- City of Grants Pass City Limits
- Major Roads
- Railroads
- Watercourses
- Waterbodies

DISCLAIMER
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MAP NOTES:
Date: May 27, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON
EXPIRES: 12/31/2014

Partial Perfection Claim of Beneficial Use Place of Use Map

Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

N

0 2,000 4,000 6,000
1 inch = 4,000 feet

GSI Water Solutions, Inc.

Document Path: P:\Portland\536-Grants Pass\001-COBU Addendum\Project_GIS\Project_mxds\PP_COBU_Permit_S26901_POU_Map.mxd

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

confirms the right to use the waters of ROGUE RIVER for MUNICIPAL USE.

This right was perfected under Permit S-26901. The date of priority is JULY 19, 1960. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 16.95 cubic feet per second (c.f.s.), measured at the point of diversion, provided further that the right to the use of the water is limited to the period when the flow of the Rogue River at the mouth is greater than 735.0 c.f.s.

The point of diversion is located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
36 S	5 W	WM	20	NE NW	317 FEET SOUTH AND 1668 FEET WEST OF THE SSE CORNER OF THE J. JONES DLC No.38

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q
36 S	5 W	WM	7	E 1/2 NE 1/4
36 S	5 W	WM	7	S 1/2
36 S	5 W	WM	8	ALL
36 S	5 W	WM	9	W 1/2 NW 1/4
36 S	5 W	WM	9	W 1/2 SW 1/4
36 S	5 W	WM	16	W 1/2
36 S	5 W	WM	17	ALL
36 S	5 W	WM	18	ALL
36 S	5 W	WM	19	ALL
36 S	5 W	WM	20	ALL
36 S	5 W	WM	21	NW 1/4
36 S	5 W	WM	21	N 1/2 SW 1/4

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 16.95 c.f.s. measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described; however, water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3)

This certificate is issued for a partial perfection of Permit S-26901 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered November 13, 2014.

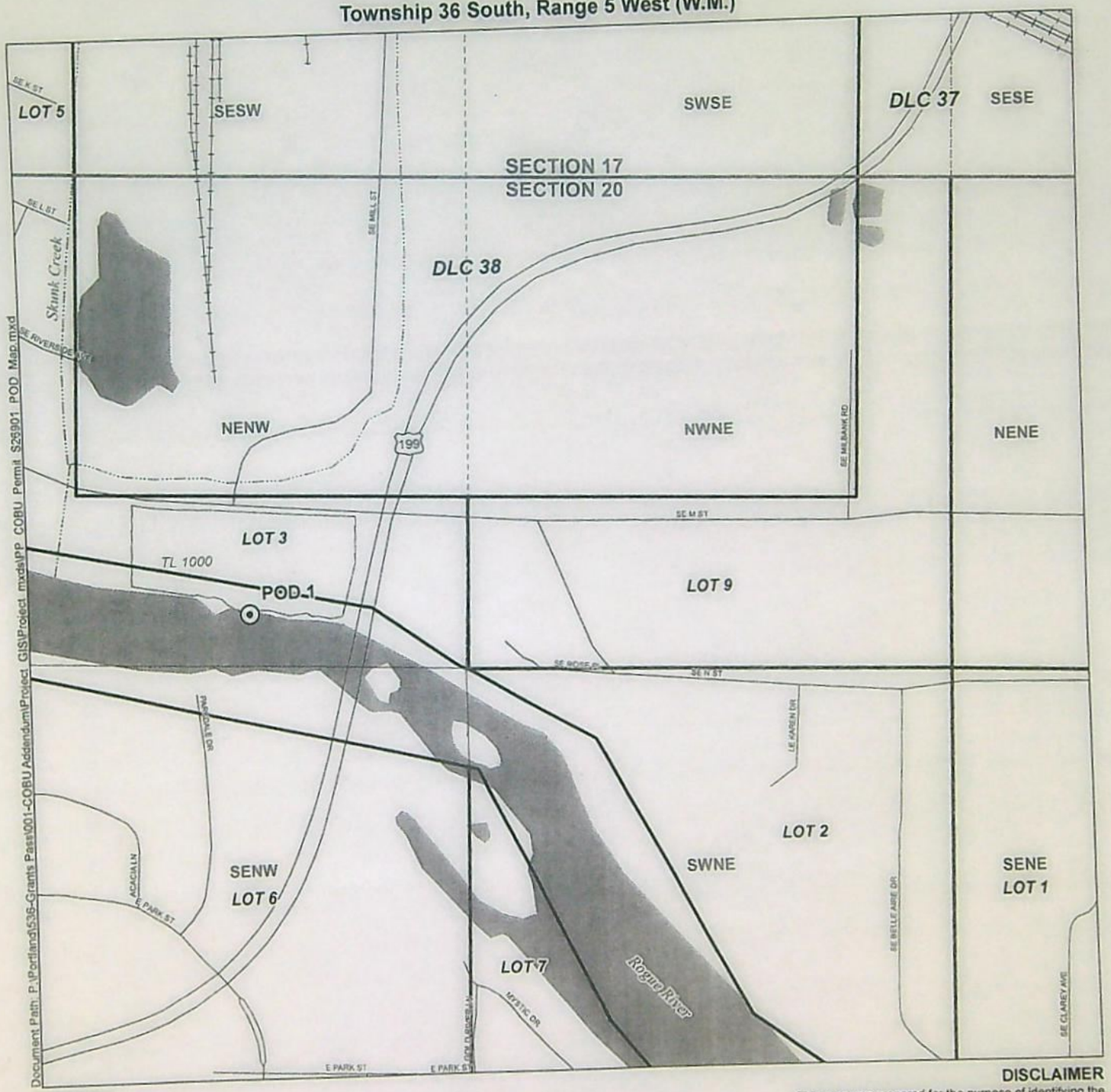
Issued NOV 14 2014

Dwight W. French
Water Right Services Division Administrator, *for*
Thomas M. Byler, Director
Oregon Water Resources Department

Partial Perfection Claim of Beneficial Use - Point of Diversion Map
Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

Township 36 South, Range 5 West (W.M.)



LEGEND

- Point of Diversion
- Donation Land Claims (DLCs) and Government Lots
- Roads
- Railroads
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POD 1
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Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON

EXPIRES: 12-31-2014

COPY

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This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:

Date: October 22, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI
Prepared By: GSI Water Solutions, Inc.

N

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1 inch = 400 feet

GSI Water Solutions, Inc.

RECEIVED
JUL 18 2014
WATER RESOURCES DEPT
SALEM, OREGON

R6W R5W

T35S T36S T37S

Hurris Creek · Soldier Creek · Morris Creek · Louse Creek · Jacobs Gap Rd · Merlin Rd · Pleasant Valley Rd · Floyd Dr · Soldier Creek Rd · Donaldson Rd · Derrick Way · Highland Ave · Redwood Ave · Redwood Hwy · Grants Pass Pkwy · Rogue River Hwy · Grave Creek Rd · Williams Hwy · New Hope Rd · Jerome Prairie Rd · Bunker Hill Rd · Bamm Slough · Highline Canal · Sand Creek · Allen Creek · Fruitdale Creek · Jewett Creek · Vannoy Creek · Luthrop Creek · Hillside Lateral · Riverside Lateral · Blue Gilda Canal · Deguara Canal · Shank Creek · East Fork Shank Creek · West Fork Jones Creek · East Fork Jones Creek · Jones Creek · Fokay Canal · Leigh Lateral · Main Canal · South Canal · Highline Canal · Fruitdale Canal · South Highline Canal · NE Savage St · NE Madrone St · NE 6th St · NE 5th St · NE A St · SW Bridge St · SW 6th St · SW 5th St · SW Evergreen Ave · SW Redwood Ave · Grandview Dr · Glen Dr · Cloverlawn Dr

LEGEND

- Place of Use (POU)
- Water Service Area Boundaries
- City of Grants Pass City Limits
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MAP NOTES:
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Data Sources: City of Grants Pass, OWRD, US BLM, ESRI

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON
EXPIRES: 12/31/2014

Partial Perfection Claim of Beneficial Use Place of Use Map

Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

N

0 2,000 4,000 6,000
1 inch = 4,000 feet

GSI Water Solutions, Inc.

Document Path: P:\Portland\536-Grants Pass\001-COBU Addendum\Project_GIS\Project_mxds\PP_COBU_Permit_S26901_POU_Map.mxd

Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900

Date Mailed: November 14, 2014

NOTICE OF CERTIFICATE ISSUANCE

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

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 **60 days of the mailing date stated above** as specified by ORS 183.484(2).

This statement of judicial review rights is required under ORS 536.075; it does not alter or add to existing review rights or create review rights that are not otherwise provided by law.

Under ORS 537.260 and 537.270, a water right certificate may be contested before the Water Resources Department within three (3) months of the date it is issued. If a certificate is contested, the qualifying contestant shall be offered an administrative hearing.

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

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

If you have any questions please contact R. Craig Kohanek at 503-986-0823.

Mailing List for Certificate Scheduled Mailing Date:

Application: S-34141

Permit: S-26901

Certificate: 89629

Permit/Certificate Holder:

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

Copies Mailed

by: Connie Vance
(STAFF)

on: NOV 14 2014

(DATE)

Copies of Final Certificate to be sent to:

1. Watermaster District 14, Kathy A. Smith (include copy of map)
2. Data Center
3. Water Availability
4. Vault
5. File

Other persons to receive copies: (include map):

1. Ted Ressler, CWRE

CERTIFICATE REIMBURSEMENT AUTHORITY
PROJECT R12206-11
FOR
APPLICATION S-34141 PERMIT S-26901

STATE OF OREGON REMITTANCE ADVICE

TO SIGN UP FOR DIRECT DEPOSIT PAYMENT SERVICE AND RECEIVE CONVENIENT,ELECTRONIC PAYMENTS, LOG IN TO HTTP://WWW.OREGON.GOV/DAS/EGS/FBS/SFMS/PAGES/ACH.ASPX ON THE INTERNET. CLICK ON FORMS AND BROCHURES. THEN SELECT DIRECT DEPOSIT (ACH) AUTHORIZATION FORM.

WARRANT NO.
123777192

WATER RESOURCES DEPARTMENT (503) 986-0924

INVOICE NO.	INVOICE DATE	INVOICE DESCRIPTION	AGY	DOCUMENT	AMOUNT
	111414	REV REF RCPT#112739 S-34141 R1	690	VP039223	$212.25

VENDOR NAME
CITY OF GRANTS PASS

ISSUE DATE
11/19/14

WARRANT AMOUNT
$212.25

FOLD ON PERFORATION LINE BELOW ⇩ BEFORE DETACHING.

WATER RESOURCES DEPARTMENT

REQUEST FOR DISTRIBUTION OF FUNDS

TO: **Fiscal Services Section** DATE: November 14, 2014

FROM: R. Craig Kohanek
Phone: (503) 986-0823

SUBJECT: **REIMBURSEMENT AUTHORITY - Request for Payment or Refund**

FILE #: S-34141 **RA #:** R12206-11 **RECEIPT #:** 112739

Please prepare payment in the amount of **$212.25**, made payable to:

Name: City of Grants Pass
Address: 101 NW A Street
Grants Pass OR 97526

These funds are being paid or refunded as a result of (check one):

_____ Excess fees were collected for Claim of Beneficial Use
__X__ Excess fees were collected for Reimbursement Authority
_____ Other:

I have reviewed this distribution request and have determined the request to be justified as to the purpose indicated above. Fiscal Services is hereby authorized to process the requested distribution.

Authorized Signature: Dwight [signature] Date: 11-14-14

PCA Obj Doc
47126 0405 Rec'd Dept # 112739 S 34141 R12206-11

Application # S-34141 Permit # S-26901 Transfer #

Applicant's Name: City of Grants Pass RA# R12206-11

Reimbursement Authority Process

Itemized Estimate Sheet

for

Certificates

	Est. Time (hr)	Individual	Est. Cost	Date	Act. Time (hr)
1. Review Claim of Beneficial Use report and map	1.00	Craig	$95	10/14 0.5hrs 10/15 0.3hrs -	
2. Conflict Check		Craig	$0		
3. Preparation of deficiency letter		Craig	$0		
4. Preparation of proposed certificates	3.00	Craig	$284	10/15 1hr - 10/16 1.3hrs - 10/23 0.5hrs 10/30 0.3hrs.	
5a. Peer review			$0		
5b. Peer review	0.20	Dwight	$24	11/12	0.2hrs
5c. Peer review	1.25	Ann	$108	10/28	.5
6. Project Management	2.50	Craig	$236	10/13/14 1hr - 10/21 0.1hr 10/29 0.7hrs. 11/10 0.7hrs.	
7a. Water right data record update	0.40	Connie	$23	11/12	0.4hrs
7b. Water right data record update	3.00	Data Tech	$174	11/10 0.6hrs -	
8. Pump test (if applicable)	0.00	Mike Z	$0		
Total	**11.35**		**$943**		
			950		

$76.00

$294.50.

$24.00

$43.20.

$242.25

$23.00

$34.80

$737.75

Remainder $212.25

Partial perfection.

Oregon
John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

November 14, 2014

City off Grants Pass
Attn: Jason Canady
101 NW A Street
Grants Pass, OR 97526

RE: Refund for Reimbursement Authority Contract R12206-11; Application File S-34141.

Mr.Canady,

Thank you for using the Certificate Reimbursement Authority Program to expedite the processing of your Claim of Beneficial Use. The Department completed its processing of your claim for less than the estimated amount. Consequently, we are refunding the difference to you.

I hope you were pleased with the Certificate Reimbursement Authority Program and would consider using again if the need arises. Please call R. Craig Kohanek at (503) 986-0823 if you have any questions about this refund.

Sincerely,

R. Craig Kohanek
Sr. Water Rights Specialist
Oregon Water Resources Department

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

JOSEPHINE COUNTY

IN THE MATTER OF PARTIAL PERFECTION OF)
WATER RIGHT PERMIT S-26901 IN THE NAME) **ORDER**
OF THE CITY OF GRANTS PASS)

STATEMENT

On September 3, 2002 The Water Resources Department received a request from the City of Grants Pass to partially perfect the use of water under water right permit S-26901.

FINDINGS OF FACT

Permit S-26901 allows for the use of 25.0 cubic foot per second (cfs) from the Rogue River, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735.0 cfs, a tributary of the Pacific Ocean for municipal use.

The City has requested partial perfection of permit S-26901 and issuance of a water right certificate. The request was accompanied by the survey required under ORS 537.230(4). The survey shows, to the satisfaction of the Director, that the appropriation has been partially perfected in accordance with the provision of the Water Rights Act.

ORS 537.260 allows, without loss of priority or cancellation to the permit, the incremental perfection of the water right permit in an amount of not less than 25 percent, pursuant to ORS 537.260 and OAR 690-320-0040.

The Department finds that the City has perfected 16.95 cfs. The quantity of water is equal or greater than the 25 percent of the original quantity of water allowed under permit S-26901.

OAR 690-320-0040(5) allows municipal suppliers that incrementally perfect less than the full quantity of water to request further extension of time to complete construction and apply water to beneficial use for the remaining, unperfected quantity of water.

NOTICE OF RIGHT TO PETITION FOR JUDICIAL REVIEW OR RECONSIDERATION

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.482. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.482 and ORS 536.075. Pursuant to ORS 183.482, ORS 536.075 and OAR 137-003-0675, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

DRAFT

Volume 93 Page 783

As of the date of this order, the City has an approved extension of time (to Oct 1, 2040) for this municipal water use permit to completely apply water to beneficial use under Permit S-26901.

ULTIMATE FINDING OF FACT

The City is now entitled to a certificate in the amount of 16.95 cfs. The Director has determined the permittee has complied with the requirements to partially perfect permit S-29601 pursuant to ORS 537.250 and 537.260.

ORDER

The Department finds that there is 8.05 cfs remaining to be perfected and that a certificate in the amount of 16.95 cfs shall be issued to the City of Grants Pass.

Dated _____

_____
Dwight W. French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

confirms the right to use the waters of ROGUE RIVER for MUNICIPAL USE.

This right was perfected under Permit S-26901. The date of priority is JULY 19, 1960. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 16.95 cubic feet per second (c.f.s.), measured at the point of diversion, provided further that the right to the use of the water is limited to the period when the flow of the Rogue River at the mouth is greater than 735.0 c.f.s.

The point of diversion is located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
36 S	5 W	WM	20	NE NW	317 FEET SOUTH AND 1668 FEET WEST OF THE SSE CORNER OF THE J. JONES DLC No.38

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q
36 S	5 W	WM	7	E 1/2 NE 1/4
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36 S	5 W	WM	16	W 1/2
36 S	5 W	WM	17	ALL
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36 S	5 W	WM	19	ALL
36 S	5 W	WM	20	ALL
36 S	5 W	WM	21	NW 1/4
36 S	5 W	WM	21	N 1/2 SW 1/4

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 16.95 c.f.s. measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

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89629

DRAFT

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described; however, water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3)

This certificate is issued for a partial perfection of Permit S-26901 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered _____.

Issued _____

_____
Dwight W. French
Water Right Services Division Administrator, *for*
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

JOSEPHINE COUNTY

IN THE MATTER OF PARTIAL PERFECTION OF)
WATER RIGHT PERMIT S-26901 IN THE NAME) **ORDER**
OF THE CITY OFGRANTS PASS)

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STATEMENT

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FINDINGS OF FACT

Permit S-26901 allows for the use of 25.0 cubic foot per second (cfs) from the Rogue River, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than ~~725.0~~ 735 cfs, a tributary of the Pacific Ocean for municipal use, .

The City has requested partial perfection of permit S-26901 and issuance of a water right certificate. The request was accompanied by the survey required under ORS 537.230(4). The survey shows, to the satisfaction of the Director, that the appropriation has been partially perfected in accordance with the provision of the Water Rights Act.

ORS 537.260 allows, without loss of priority or cancellation to the permit, the incremental perfection of the water right permit in an amount of not less than 25 percent, pursuant to ORS 537.260 and OAR 690-320-0040.

The Department finds that the City has perfected 16.95 cfs. The quantity of water is equal or greater than the 25 percent of the original quantity of water allowed under permit S-26901.

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Volume ____ Page ____

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S-26901

ORDER

The Department finds that there is 8.05 cfs remaining to be perfected and that a certificate in the amount of 16.95 cfs shall be issued to the City of Grants Pass.

Dated _____

_____
Dwight W. French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

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OAR 690-320-0040(5) allows municipal suppliers that incrementally perfect less than the full quantity of water to request further extension of time to complete construction and apply water to beneficial use for the remaining, unperfected quantity of water.

NOTICE OF RIGHT TO PETITION FOR JUDICIAL REVIEW OR RECONSIDERATION

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.482. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.482 and ORS 536.075. Pursuant to ORS 183.482, ORS 536.075 and OAR 137-003-0675, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

DRAFT

Volume ____ Page ____

As of the date of this order, the City has an approved extension of time (to Oct 1, 2040) for this municipal water use permit to completely apply water to beneficial use under Permit S-26901.

ULTIMATE FINDING OF FACT

The City is now entitled to a certificate in the amount of 16.95 cfs. The Director has determined the permittee has complied with the requirements to partially perfect permit G-11993 pursuant to ORS 537.250 and 537.260.

ORDER

The Department finds that there is 8.05 cfs remaining to be perfected and that a certificate in the amount of 16.95 cfs shall be issued to the City of Grants Pass.

Dated _____

_____
Dwight W. French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

confirms the right to use the waters of ROGUE RIVER for MUNICIPAL USE.

This right was perfected under Permit S-26901. The date of priority is JULY 19, 1960. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 16.95 cubic feet per second (c.f.s.), measured at the point of diversion, provided further that the right to the use of the water is limited to the period when the flow of the Rogue River at the mouth is greater than 735.0 c.f.s.

POD is outside the boundary of GLot 3

The point of diversion is located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
36 S	5 W	WM	20	NE NW	3	317 FEET SOUTH AND 1668 FEET WEST OF THE SSE CORNER OF THE J. JONES DLC No.38

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q
36 S	5 W	WM	7	E 1/2 NE 1/4
36 S	5 W	WM	7	S 1/2
36 S	5 W	WM	8	ALL
36 S	5 W	WM	9	W ~~1/2~~ 1/4
36 S	5 W	WM	16	W 1/2
36 S	5 W	WM	17	ALL
36 S	5 W	WM	18	ALL
36 S	5 W	WM	19	ALL
36 S	5 W	WM	20	ALL
36 S	5 W	WM	21	NW 1/4
36 S	5 W	WM	21	N 1/2 SW 1/4

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 16.95 c.f.s. measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

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

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

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

This certificate is issued for a partial perfection of Permit S-26901 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered _____.

Issued _____

_____
Dwight W. French
Water Right Services Division Administrator, *for*
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

confirms the right to use the waters of ROGUE RIVER for MUNICIPAL USE.

This right was perfected under Permit S-26901. The date of priority is JULY 19, 1960. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 16.95 cubic feet per second (c.f.s.), measured at the point of diversion, provided further that the right to the use of the water is limited to the period when the flow of the Rogue River at the mouth is greater than 735.0 c.f.s.

The point of diversion is located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
36 S	5 W	WM	20	NE NW	3	317 FEET SOUTH AND 1668 FEET WEST OF THE SSE CORNER OF THE J. JONES DLC No.38

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q
36 S	5 W	WM	7	E 1/2 NE 1/4
36 S	5 W	WM	7	S 1/2
36 S	5 W	WM	8	ALL
36 S	5 W	WM	9	W 1/2
36 S	5 W	WM	16	W 1/2
36 S	5 W	WM	17	ALL
36 S	5 W	WM	18	ALL
36 S	5 W	WM	19	ALL
36 S	5 W	WM	20	ALL
36 S	5 W	WM	21	NW 1/4
36 S	5 W	WM	21	N 1/2 SW 1/4

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 16.95 c.f.s. measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

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

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

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

This certificate is issued for a partial perfection of Permit S-26901 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered _____.

Issued _____

_____
Dwight W. French
Water Right Services Division Administrator, *for*
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

KOHANEK Craig

From: KOHANEK Craig
Sent: Wednesday, October 29, 2014 7:37 AM
To: Ted Ressler (TRessler@gsiws.com)
Subject: Draft Certificate and Order for the City of Grants Pass, Application S-34141, RA project R12206-11
Attachments: 34141-or-prop.pdf; 34141-partial perfection-order.pdf

Ted,

Attached for your review is the Draft Certificate and Order for the City of Grants Pass, Application S-34141. Please check them thoroughly for accuracy and completeness and provide me your edits. If you are ok with the documents, reply to this email to that effect and I will continue the processing of these documents.

R. Craig Kohanek
Water Rights Specialist
Reimbursement Authority
Oregon Water Resources Department
Phone: 503-986-0823
Fax: 503-986-0901
Ron.C.Kohanek@wrd.state.or.us

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

confirms the right to use the waters of ROGUE RIVER, TRIBUTARY TO THE PACIFIC OCEAN for MUNICIPAL USE.

This right was perfected under Permit S-26901. The date of priority is JULY 19, 1960. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 16.95 cubic feet per second (c.f.s.), measured at the point of diversion, provided further that the right to the use of the water is limited to the period when the flow of the Rogue River at the mouth is greater than 735 c.f.s.

The point of diversion is located as follows:

Twp	Rng	Mer	Sec	Q-Q	GLot	Measured Distances
36 S	5 W	WM	20	NE NW	3	317 FEET SOUTH AND 1668 FEET WEST OF THE SSE CORNER OF THE J. JONES DLC No.38

measured distances not on map

A description of the place of use is as follows:

Twp	Rng	Mer	Sec	Q-Q
36 S	5 W	WM	7	E 1/2 NE 1/4
36 S	5 W	WM	7	S 1/2
36 S	5 W	WM	8	ALL
36 S	5 W	WM	9	W 1/2 NW 1/4
36 S	5 W	WM	9	W 1/2 SW 1/4
36 S	5 W	WM	16	W 1/2
36 S	5 W	WM	17	ALL
36 S	5 W	WM	18	ALL
36 S	5 W	WM	19	ALL
36 S	5 W	WM	20	ALL
36 S	5 W	WM	21	NW 1/4
36 S	5 W	WM	21	N 1/2 SW 1/4

or West 1/2 original is correct.

The right granted herein is limited to the amount which can be applied to beneficial use and shall not exceed 16.95 c.f.s. measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

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

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described; however, water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3)

This certificate is issued for a partial perfection of Permit S-26901 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered _____.

Issued _____

_____
Dwight W. French
Water Right Services Division Administrator, *for*
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

Mailing List for Certificate Scheduled Mailing Date:

Application: S-34141

Permit: S-26901

Certificate: ******

Permit/Certificate Holder:

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS OR 97526

Copies Mailed

by: _____
(STAFF)

on: _____
(DATE)

Copies of Final Certificate to be sent to:

1. Watermaster District 14, Kathy A. Smith (include copy of map)
2. Data Center
3. Water Availability
4. Vault
5. File

Other persons to receive copies: (include map):

1. Ted Ressler, CWRE

DRAFT

BEFORE THE WATER RESOURCES DIRECTOR OF OREGON

JOSEPHINE COUNTY

IN THE MATTER OF PARTIAL PERFECTION OF)
WATER RIGHT PERMIT S-26901 IN THE NAME) **ORDER**
OF THE CITY OFGRANTS PASS)

STATEMENT

On September 3, 2002 The Water Resources Department received a request from the City of Grants Pass to partially perfect the use of water under water right permit S-26901.

FINDINGS OF FACT

Permit S-26901 allows for the use of 25.0 cubic foot per second (cfs) from the Rogue River, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 725 cfs, a tributary of the Pacific Ocean for municipal use, .

The City has requested partial perfection of permit S-26901 and issuance of a water right certificate. The request was accompanied by the survey required under ORS 537.230(4). The survey shows, to the satisfaction of the Director, that the appropriation has been partially perfected in accordance with the provision of the Water Rights Act.

ORS 537.260 allows, without loss of priority or cancellation to the permit, the incremental perfection of the water right permit in an amount of not less than 25 percent, pursuant to ORS 537.260 and OAR 690-320-0040.

The Department finds that the City has perfected 16.95 cfs. The quantity of water is equal or greater than the 25 percent of the original quantity of water allowed under permit S-26901.

OAR 690-320-0040(5) allows municipal suppliers that incrementally perfect less than the full quantity of water to request further extension of time to complete construction and apply water to beneficial use for the remaining, unperfected quantity of water.

NOTICE OF RIGHT TO PETITION FOR JUDICIAL REVIEW OR RECONSIDERATION

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.482. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.482 and ORS 536.075. Pursuant to ORS 183.482, ORS 536.075 and OAR 137-003-0675, you may petition for judicial review and petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Volume ____ Page ____

DRAFT

As of the date of this order, the City has an approved extension of time (to Oct 1, 2040) for this municipal water use permit to completely apply water to beneficial use under Permit S-26901.

ULTIMATE FINDING OF FACT

The City is now entitled to a certificate in the amount of 16.95 cfs. The Director has determined the permittee has complied with the requirements to partially perfect permit G-11993 pursuant to ORS 537.250 and 537.260.

ORDER

The Department finds that there is 8.05 cfs remaining to be perfected and that a certificate in the amount of 16.95 cfs shall be issued to the City of Grants Pass.

Dated _____

_____
Dwight W. French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

DRAFT

GSI
Water Solutions, Inc.

RECEIVED BY OWRD

OCT 27 2014

SALEM, OR

Transmittal

To:	Craig Kohanek	From:	Ted Ressler
Address:	Reimbursement Authority Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1271	Date:	10/23/2014
Re:	Additional Point of Diversion Map for R12206-11 involving Application S-34141, Permit S-26901		

☐ Attachments ☐ For Review ☐ Please Comment ☒ For Your Use

Date	Number of Copies	Description
	2	COBU POD map for R12206-11 involving Application S-34141, Permit S-26901 1 color on paper, 1 black & white mylar

Per your request, enclosed is an additional COBU map showing the Point of Diversion with respect to both the Donation Land Claims and the Government Lots.

55 SW Yamhill Street, Suite 300 Portland, OR 97204 P: 503.239.8799 F: 503.239.8940 info@gsiws.com www.gsiws.com

KOHANEK Craig

From: Ted Ressler <TRessler@gsiws.com>
Sent: Tuesday, October 21, 2014 2:25 PM
To: KOHANEK Craig
Subject: RE: RA project R12206-11 for the City of Grants Pass, application S-34141, permit S-26901 Map issue

Craig

We are on it. I'll get you a revised POD map.

Ted

From: KOHANEK Craig [mailto:ron.c.kohanek@state.or.us]
Sent: Thursday, October 16, 2014 10:48 AM
To: Ted Ressler
Subject: RA project R12206-11 for the City of Grants Pass, application S-34141, permit S-26901 Map issue

Ted,

You submitted an addendum to the City of Grants Pass's application S-34141, permit S-26901 at the same time you sought expedited processing of this file. The map you provided was for the place of use and the water service area boundary. However, the original Final Proof map by Gary Weeks, intended for the point of diversion (POD), does not include the government lots in Section 20, including Lot 3 where the POD occurs. For that reason the Department needs a new POD Final Proof map that includes the government lots.
http://www.blm.gov/or/landrecords/survey/yPlatView1_2.php?path=POR&name=t360s050w_001.jpg ,
http://www.blm.gov/or/landrecords/survey/yPlatView1_2.php?path=POR&name=t360s050w_003.jpg

R. Craig Kohanek
Water Rights Specialist
Reimbursement Authority
Oregon Water Resources Department
Phone: 503-986-0823
Fax: 503-986-0901
Ron.C.Kohanek@wrd.state.or.us

KOHANEK Craig

From: KOHANEK Craig
Sent: Thursday, October 16, 2014 10:48 AM
To: Ted Ressler (TRessler@gsiws.com)
Subject: RA project R12206-11 for the City of Grants Pass, application S-34141, permit S-26901 Map issue

Ted,

You submitted an addendum to the City of Grants Pass's application S-34141, permit S-26901 at the same time you sought expedited processing of this file. The map you provided was for the place of use and the water service area boundary. However, the original Final Proof map by Gary Weeks, intended for the point of diversion (POD), does not include the government lots in Section 20, including Lot 3 where the POD occurs. For that reason the Department needs a new POD Final Proof map that includes the government lots.
http://www.blm.gov/or/landrecords/survey/yPlatView1_2.php?path=POR&name=t360s050w_001.jpg ,
http://www.blm.gov/or/landrecords/survey/yPlatView1_2.php?path=POR&name=t360s050w_003.jpg

R. Craig Kohanek
Water Rights Specialist
Reimbursement Authority
Oregon Water Resources Department
Phone: 503-986-0823
Fax: 503-986-0901
Ron.C.Kohanek@wrd.state.or.us

KOHANEK Craig

From: KOHANEK Craig
Sent: Wednesday, July 16, 2014 1:27 PM
To: 'Jason Canady'
Subject: RE: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141

Jason,

I reckon that less than 5% of projects exceed the estimated cost.

Craig

From: Jason Canady [mailto:jcanady@grantspassoregon.gov]
Sent: Tuesday, July 08, 2014 1:05 PM
To: 'KOHANEK Craig'; Ted Ressler (TRessler@gsiws.com)
Subject: RE: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141

Thanks Craig, I will get this processed right away. In your (or Ted's) experience how likely is it that we will exceed the $950 listed in the agreement?

Thanks and have a great afternoon!
Jm

From: KOHANEK Craig [mailto:ron.c.kohanek@state.or.us]
Sent: Tuesday, July 08, 2014 12:00 PM
To: Ted Ressler (TRessler@gsiws.com)
Cc: Jason Canady
Subject: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141

DISCLOSURE: Messages to and from this E-mail address may be subject to Oregon Public Records Law.

KOHANEK Craig

From: Jason Canady <jcanady@grantspassoregon.gov>
Sent: Tuesday, July 08, 2014 1:05 PM
To: 'KOHANEK Craig'; Ted Ressler (TRessler@gsiws.com)
Subject: RE: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141

Thanks Craig, I will get this processed right away. In your (or Ted's) experience how likely is it that we will exceed the $950 listed in the agreement?

Thanks and have a great afternoon!
Jm

From: KOHANEK Craig [mailto:ron.c.kohanek@state.or.us]
Sent: Tuesday, July 08, 2014 12:00 PM
To: Ted Ressler (TRessler@gsiws.com)
Cc: Jason Canady
Subject: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141

DISCLOSURE: Messages to and from this E-mail address may be subject to Oregon Public Records Law.

KOHANEK Craig

From: KOHANEK Craig
Sent: Tuesday, July 15, 2014 3:28 PM
To: Ted Ressler (TRessler@gsiws.com)
Subject: RA Agreement for the City of Grants Pass R12206-11 involving application S-34141
Attachments: RA contract executed.pdf; RA Contract receipt.pdf

Ted,

Attached are copies of the fully executed Applicant's Agreement signed by the required parties and a receipt for the monies paid for these expedited services. The agreement details the terms and conditions that a work order was issued for the expedited services you requested.

If you have any questions concerning the agreements or the program, please contact me.

I received the message you left on my phone earlier today. The only items that I have received from the City of Grants Pass were the endorsed contract and a check for $950.00. I received neither an addendum nor a copy of a new map.

R. Craig Kohanek
Water Rights Specialist
Reimbursement Authority
Oregon Water Resources Department
Phone: 503-986-0823
Fax: 503-986-0901
Ron.C.Kohanek@wrd.state.or.us

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 # 112739 INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY:

APPLICATION	S-34141
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 44924 ☐ OTHER: (IDENTIFY) _____

TOTAL REC'D $ 950.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47126 R12206-11	$
0408	OTHER:	(IDENTIFY) Reimbursement Authority	$ 950.00

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

4270 WRD OPERATING ACCT

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

0536 TREASURY 0437 WELL CONST. START FEE

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

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

____ TREASURY OTHER / RDX

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

RECEIPT: 112739 DATED: 7-14-14 BY: CHmyate

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

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 # 112739 INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY:

APPLICATION S-34141
PERMIT
TRANSFER

CASH: ☐ CHECK:# ☒ 44924 ☐ OTHER: (IDENTIFY) _____

TOTAL REC'D $ 950.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47126 R12206-11 $
0408 OTHER: (IDENTIFY) Reimbursement Authority $ 950.00

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

4270 WRD OPERATING ACCT

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

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

WELL CONSTRUCTION EXAM FEE LICENSE FEE
0218 WELL DRILL CONSTRUCTOR $ 0219 $
LANDOWNER'S PERMIT 0220 $
_____ OTHER (IDENTIFY)

0536 TREASURY 0437 WELL CONST. START FEE

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

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

____ TREASURY OTHER / RDX

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

RECEIPT: 112739 DATED: 7-14-14 BY: CHmyate

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

City of Grants Pass • (541) 474-6360

CHECK NO. 44924

DATE	INVOICE	DESCRIPTION	ACCOUNT NUMBER	AMOUNT
07/10/2014	R1220611/S34141	COST TO EXPEDITE COBU PRO	75869016303202	950.00

RECEIVED BY OWRD

JUL 14 2014

SALEM, OR

OREGON STATE WATER RESOURCES 8290

TOTAL ******950.00

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY APPLICANT'S AGREEMENT

Contract Number: **R12206-11**

This Agreement is between the **Oregon Water Resources Department**, hereafter OWRD, and **City of Grants Pass** hereafter Applicants, hereafter known together as the parties.

OWRD Information	**Applicant's Information**	**Applicant's Representative**
Project Contact: R. Craig Kohanek	Name: Jason Canady	Name: Ted Ressler
Reimbursement Authority	Title: Water Plant Superintendent	Title: Representative
Oregon Water Resources Department	Company: City of Grants Pass	Company: GSI Water Solutions, Inc.
725 Summer Street, NE	Address: 101 NW A Street	Address: 55 SW Yamhill St.; Suite 300
Salem, OR 97301-1271	Grants Pass, OR 97526	Portland, OR 97204
Phone: 503-986-0823	Phone: 541-450-6119	Phone: 503-239-8799
Email: Ron.c.kohanek@state.or.us	Email: jcanady@grantspassoregon.gov	Email: tressler@gsiws.com

1. **Purpose.** The purpose of this Agreement is to expedite the processing of the **Claim of Beneficial Use. (Application Number: S-34141)**

2. **Authority.** ORS 536.055 authorizes the OWRD to enter into a voluntary agreement with any applicant, permittee or regulated entity (collectively Applicant) for expediting or enhancing a regulatory process. In making this agreement, OWRD shall require the applicant to pay the full cost of expedited process.

3. **Restrictions.** City of Grants Pass and OWRD agree that this Agreement shall not be construed to restrict in any way the decisions and actions by OWRD. OWRD shall be free to exercise independent judgment consistent with existing laws and regulations.

4. **Effective Date and Duration.** Unless otherwise terminated by non-deposit of funds by the Applicant, this Agreement shall become effective on the date on which both parties have signed the Agreement and the full deposit of the estimated cost of the proposed service has been received by OWRD.

5. **Consideration.** City of Grants Pass shall pay OWRD in advance for actual costs incurred by OWRD. City of Grants Pass agrees to pay the full amount of **$950** to OWRD prior to commencement of any work stated in this Agreement. This payment will be placed in an account administered by OWRD and drawn upon as costs are actually incurred. If the actual cost of performing the work is less than payments received, OWRD will refund the unspent balance. If the actual cost of processing exceeds the estimate, the Applicant can either elect to terminate this Agreement or amend the Agreement to reflect the increase in cost. The costs stated in this Agreement do not include the statutory application processing and filing fees.

6. **Confidentiality.** City of Grants Pass agrees that any information provided to or acquired by OWRD under this Agreement will be subject to the Oregon Public Records Law and shall be considered public records.

7. **Indemnity.** Applicant shall defend, save, hold harmless, and indemnify the State of Oregon, OWRD, and their officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs and expenses of any nature resulting from or arising out of, or relating to the activities of Applicant or its representatives, officers, employees, contractors, or agents under this Agreement or with respect to the expedited service. The Applicant acknowledges that the Oregon Water Resources Department cannot and does not guarantee a favorable review under the subject regulatory process.

PCA 47126

8. **Termination.** Applicant may request to terminate this agreement only in writing at anytime during the process. The Applicant agrees to pay for the work done by the Reimbursement Authority personnel up until the time of the written termination request. OWRD, upon receiving such written termination request from the Applicant, will refund any unspent balance after paying the Reimbursement Authority personnel for the work done.

9. **Funds Authorized and Available.** By its execution of this Agreement, Applicants certifies that sufficient funds are authorized and available to cover the expenditures contemplated by this Agreement.

10. **Duration of Estimate.** The Estimate of Time to complete the work is no later than one hundred and twenty days (120) days once this Agreement has been fully executed and payment of the estimated cost deposited. However, this estimate is contingent on the Applicant's expeditious resolution of any deficiency and may be affected by the Department's work load. This Estimate of Time may become null and void after thirty (30) days from the date the Applicant's Agreement is mailed. If the Applicant's Agreement is not received by the Department within thirty (30) days of mailing the Agreement, the Applicant may need to re-apply for a new estimate.

11. **Completion Date.** OWRD, by the execution of this Agreement does not guarantee the completion date indicated in this Agreement. Completion date is only an estimate and may be affected by the Department's workload, issues arising from the processing of the requested services and Applicant's timely response to requests for additional information.

12. **Captions.** The captions or headings in this Agreement are for the convenience only and in no way define limit or describe the scope or intent of any provision of this Agreement.

13. **Amendment and Merger.** The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, except by written instrument signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements or representations, oral or written, not specified herein regarding this Agreement.

14. **Signatures.** All parties, by the authorized representative's signature below, hereby acknowledge that they have read this Agreement, understand it and agree to be bound by its terms and conditions.

Applicant: Jason M Canady
Name: Jason Canady
Title: Water Plant Superintendent
Company: City of Grants Pass
Date: 7/8/14

For OWRD: R. Craig Kohanek
Name: R. Craig Kohanek
Water Rights and Adjudication Division
Date: 7/15/14

Mail signed Agreement to:

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

RECEIVED BY OWRD
JUL 14 2014
SALEM, OR

PCA 47126

KOHANEK Craig

From: KOHANEK Craig
Sent: Tuesday, July 08, 2014 12:00 PM
To: Ted Ressler (TRessler@gsiws.com)
Cc: 'jcanady@grantspassoregon.gov'
Subject: RA Certificate Estimate for City of Grants Pass R12206-11 involving application #S-34141
Attachments: RA contract.pdf

Jason & Ted

Please find the attached estimate and agreement to process your permit into a certificate. If the proposed agreement is acceptable to you, please return a signed copy to our office along with the payment of the estimated cost to process it.

If you have any questions, please call me.

R. Craig Kohanek
Water Rights Specialist
Reimbursement Authority
Oregon Water Resources Department
Phone: 503-986-0823
Fax: 503-986-0901
Ron.C.Kohanek@wrd.state.or.us

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 # 112668 INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION	S-34141
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 44911 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES	47126 R12206-11	$
0408	OTHER:	(IDENTIFY) Reimbursement Authority	$ 125.00

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

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

WELL CONSTRUCTION

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

____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

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

____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

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

____ TREASURY OTHER / RDX

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

RECEIPT: 112668 DATED: 7-7-14 BY: CHungate

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

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 # 112668 INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION S-34141
PERMIT
TRANSFER

CASH: ☐ CHECK:# ☒ 44911 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 125.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES 47126 R12206-11 $
0408 OTHER: (IDENTIFY) Reimbursement Authority $ 125.00

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

4270 WRD OPERATING ACCT

MISCELLANEOUS

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

WATER RIGHTS:

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

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: 112668 DATED: 7-7-14 BY: CHungate

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

City of Grants Pass • (541) 474-6360

CHECK NO. 44911

DATE	INVOICE	DESCRIPTION	ACCOUNT NUMBER	AMOUNT
07/02/2014	S34141/S26901	~~IN-HOUSE AP 7/2/14 FY15~~ Fee to expedite COBU addendum processing	75869016303202	125.00

RECEIVED BY OWRD

JUL 07 2014

SALEM, OR

OREGON STATE WATER RESOURCES 8290

TOTAL ******125.00

OREGON WATER RESOURCES DEPARTMENT

CERTIFICATE REIMBURSEMENT AUTHORITY ESTIMATE APPLICATION

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

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

REQUEST	TYPE	FILE NUMBER	
☒	Certificate Request	Application Number	S-34141
		Permit Number	S-26901
		Transfer Number/Permit Amendment (if applicable)	____

	Applicant Information	Applicant's Representative/Contact
Name:	City of Grants Pass Jason Canady - Water Plant Superintendent	Theodore Ressler GSI Water Solutions, Inc.
Address:	101 NW A Street	55 SW Yamhill Street, Suite 300
	Grants Pass, OR 97526	Portland, OR 97204
Phone:	541-450-6119	503-239-8799
Fax:		503-239-8940
E-Mail Address:	jcanady@grantspassoregon.gov	tressler@gsiws.com

I certify that I (*check one*):
☒ have previously filed a Claim of Beneficial Use
☐ am attaching the Claim of Beneficial Use with this request and have included the appropriate claim fee.

I understand the following:

- That upon receipt of my non-refundable application fee in the amount of **$ 125.00**, OWRD will, within fourteen (14) days, notify me in writing of the estimates of cost and time frame for the expedited service.
- That this fee covers the reimbursement authority staff to evaluate and provide the estimate for processing of the request.
- That upon receiving the estimate I may agree or decline to e… advance to initiate the expedited service.
- An incomplete or inaccurate Claim of Beneficial Use may d… request.
- Expedited processing does not guarantee a favorable reviev…
- Send completed Application and payment to:
  Oregon Water Resources Department
  Certificate Reimbursement Authority Program
  725 Summer St. NE, Suite A
  Salem, OR 97301-1271

RECEIVED BY OWRD
JUL 07 2014
SALEM, OR

I certify that I am the (*check one*):
☒ Applicant ☐ Applicant's Representative ☐…

Name: Jason Canady - Water Plant Superintendent, Ci…

Signature: Jason M Canady

OWRD USE ONLY: Reimbursement Authority Number: R12… 7/20

KOHANEK Craig

From: SUMPTION Mishelle K
Sent: Tuesday, July 08, 2014 10:01 AM
To: HUNGATE Cammi R; TODD Sandra K
Cc: OPEIFA Salem B; REECE Ann L; KOHANEK Craig
Subject: RE: Certificate Request

Cammi,

Your project number is R12206 11 and the PCA to use is 47126.

Thank you.

Mishelle

From: HUNGATE Cammi R
Sent: Tuesday, July 08, 2014 9:30 AM
To: TODD Sandra K
Cc: OPEIFA Salem B; SUMPTION Mishelle K; REECE Ann L; KOHANEK Craig
Subject: Certificate Request

Hello,

Applicant: City of Grants Pass; Jason Canaday- Water Plant Superintendent

Related to Application: S-34141

Receipt #: 112668

Thank you,

Cammi Hungate
Reception
Oregon Water Resources Department
P: 503-986-0900

KOHANEK Craig

From: HUNGATE Cammi R
Sent: Tuesday, July 08, 2014 9:30 AM
To: TODD Sandra K
Cc: OPEIFA Salem B; SUMPTION Mishelle K; REECE Ann L; KOHANEK Craig
Subject: Certificate Request

Hello,

Applicant: City of Grants Pass; Jason Canaday- Water Plant Superintendent

Related to Application: S-34141

Receipt #: 112668

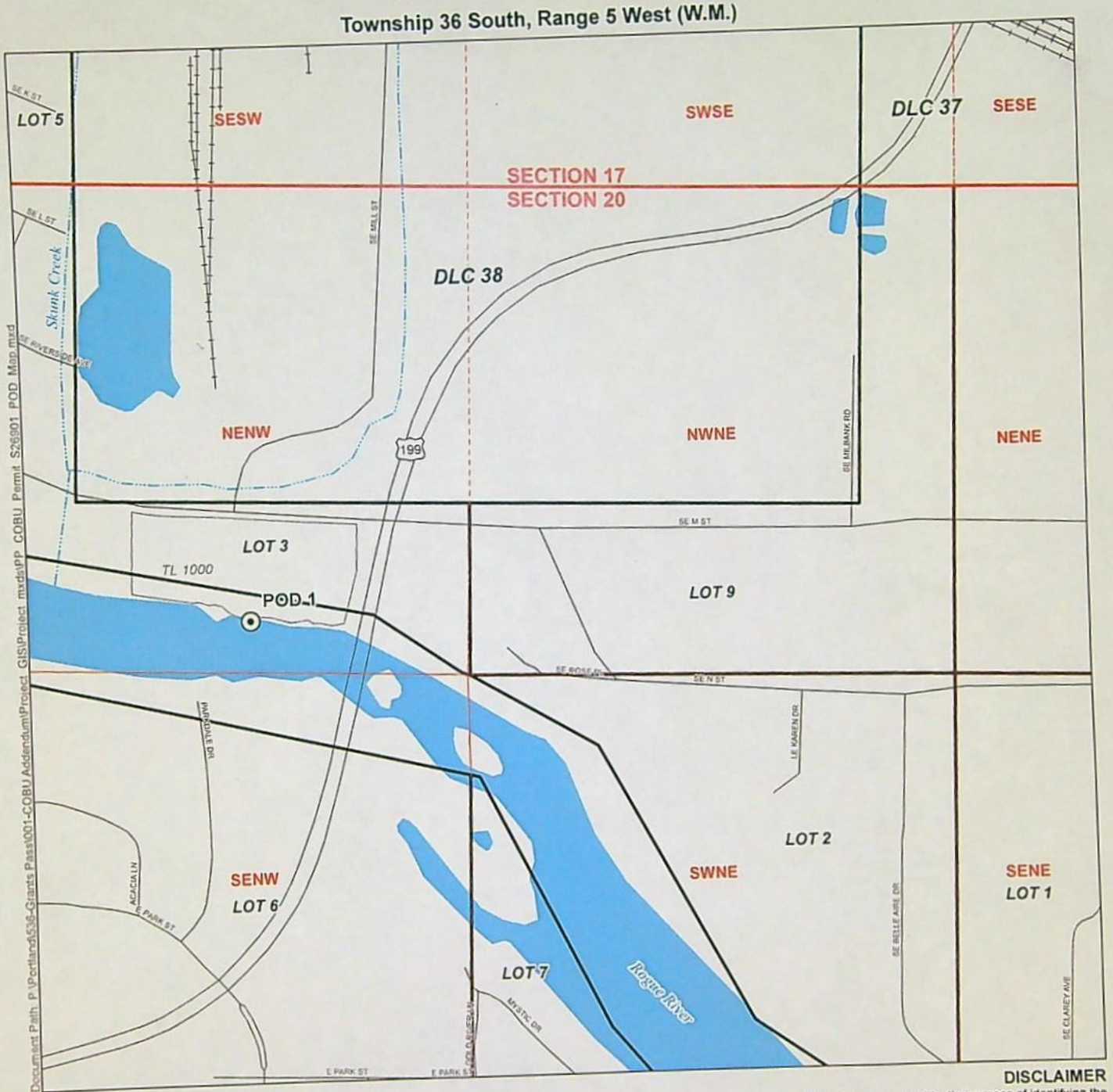
Thank you,

Cammi Hungate
Reception
Oregon Water Resources Department
P: 503-986-0900

Partial Perfection Claim of Beneficial Use - Point of Diversion Map
Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

Township 36 South, Range 5 West (W.M.)



LEGEND

- Point of Diversion
- Donation Land Claims (DLCs) and Government Lots
- Roads
- Railroads
- Watercourses
- Waterbodies

POD LOCATION DESCRIPTION

POD 1
Located 317 feet South and 1,668 feet West from the S.SE corner J. Jones DLC No. 38

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON

EXPIRES: 12-31-2014

DISCLAIMER

This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:

Date: October 22, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI
Prepared By: GSI Water Solutions, Inc.

N

0 200 400
1 inch = 400 feet

GSI Water Solutions, Inc.

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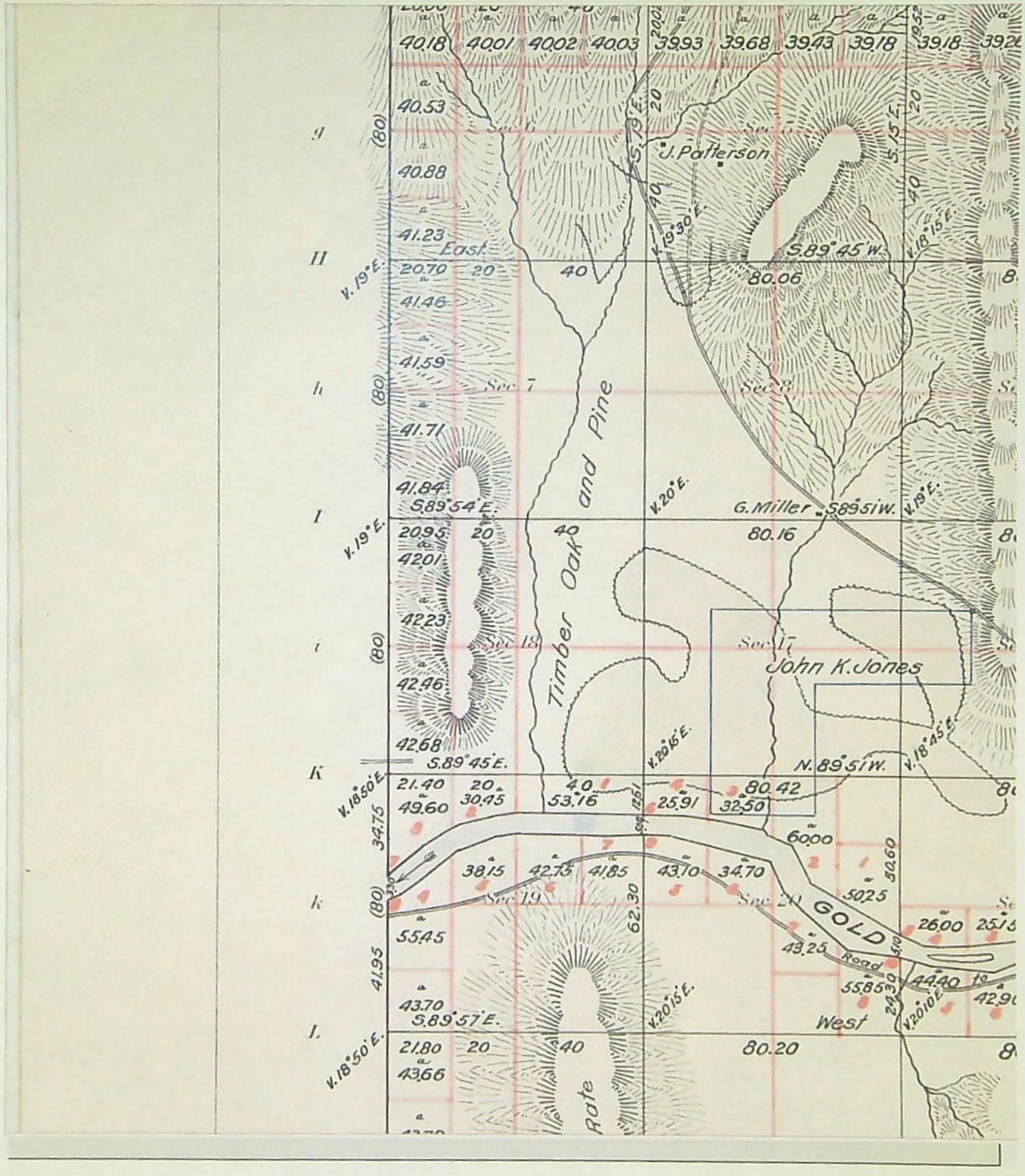

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1857

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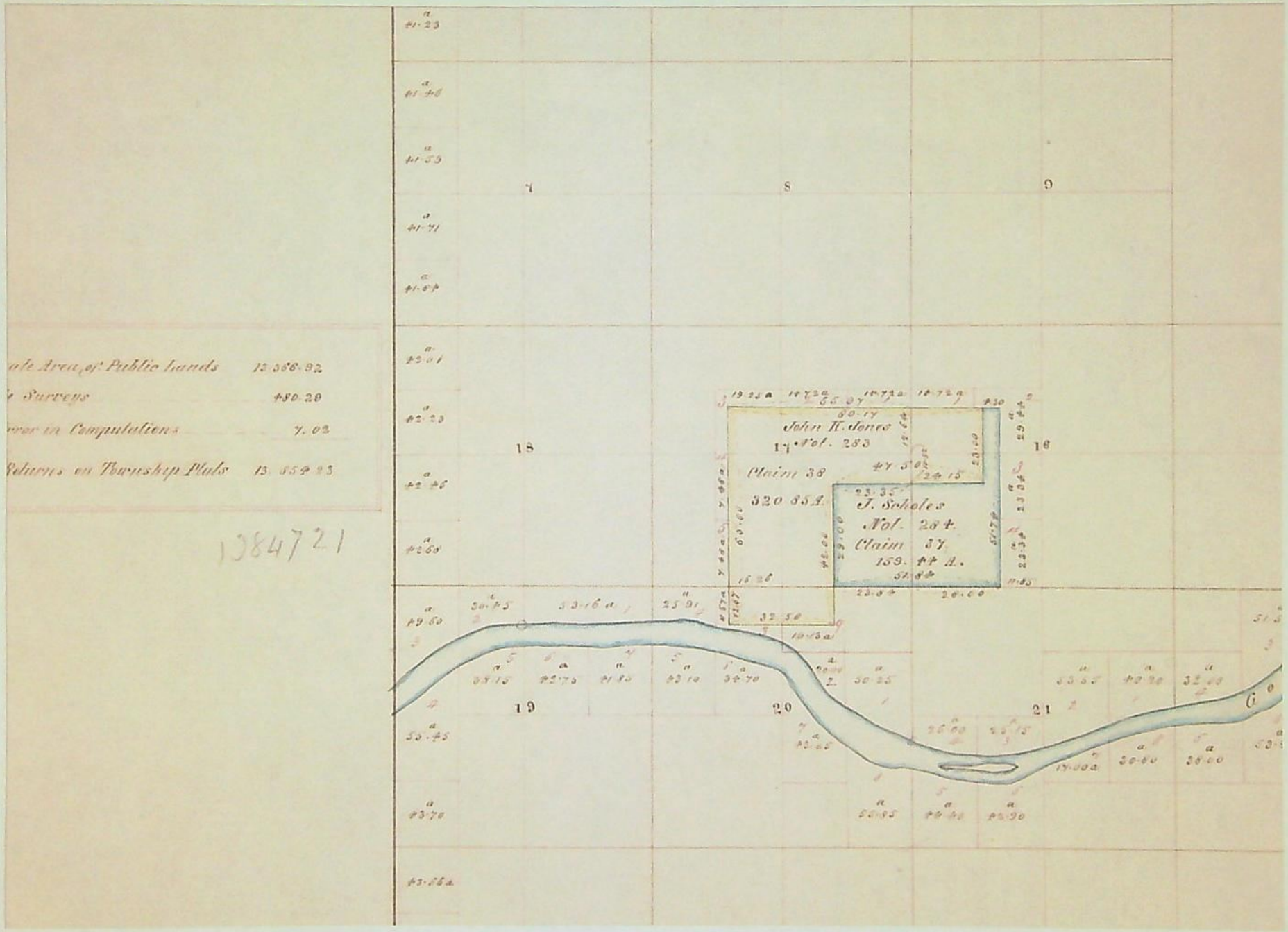

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Surveys 480.20
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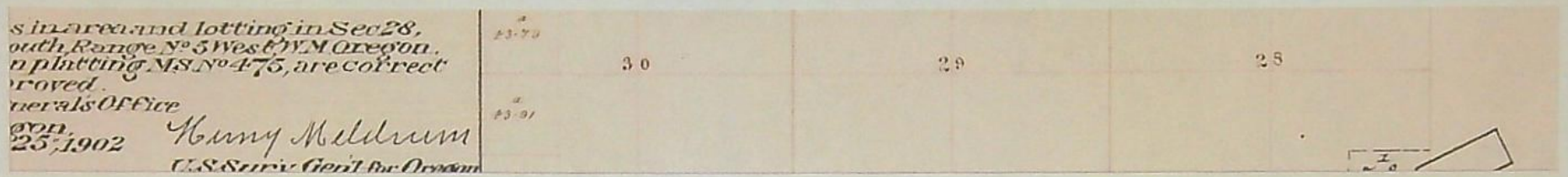
Returns on Township Plats 13 859 23

1384721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U.S. Surv. Gen'l for Oregon
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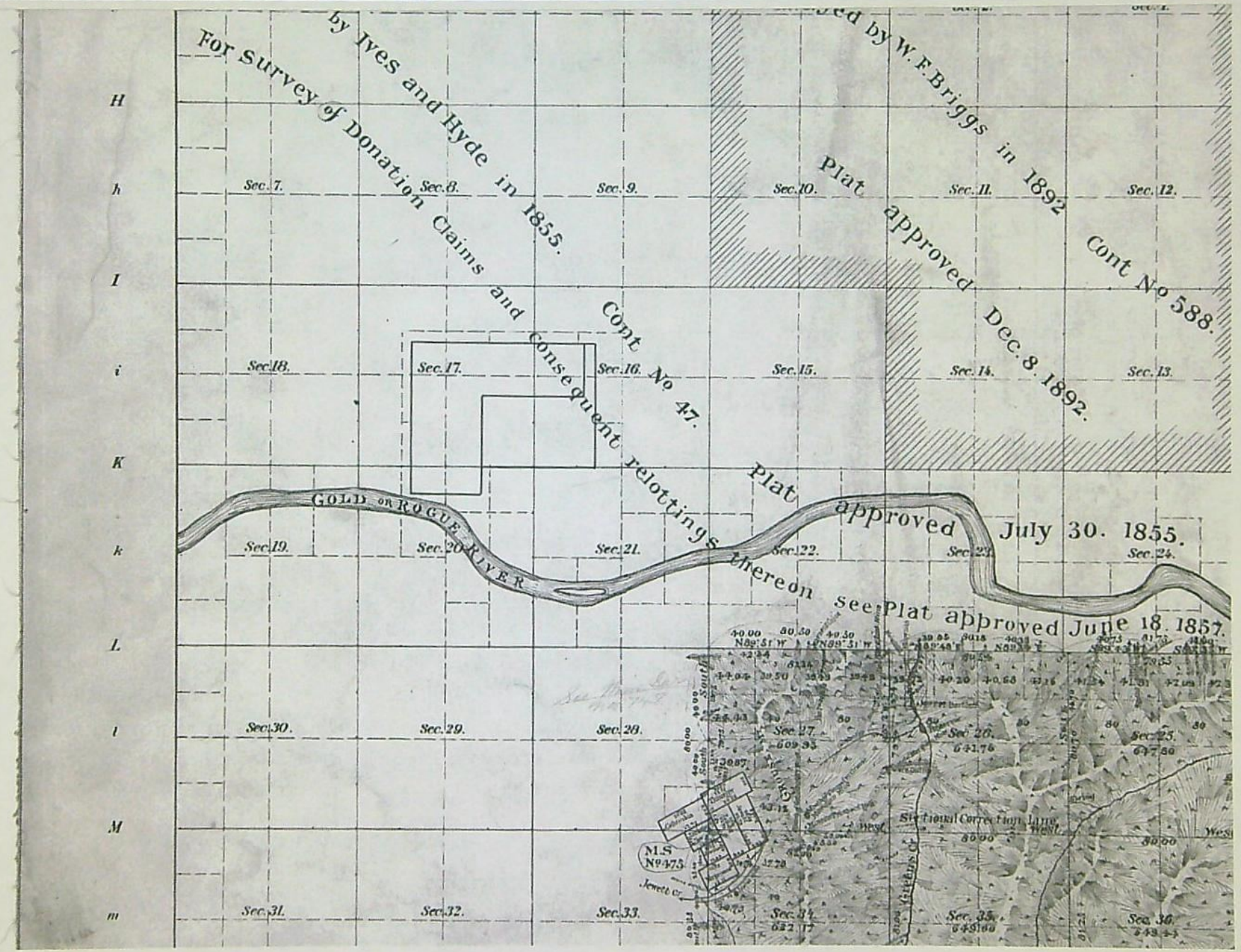
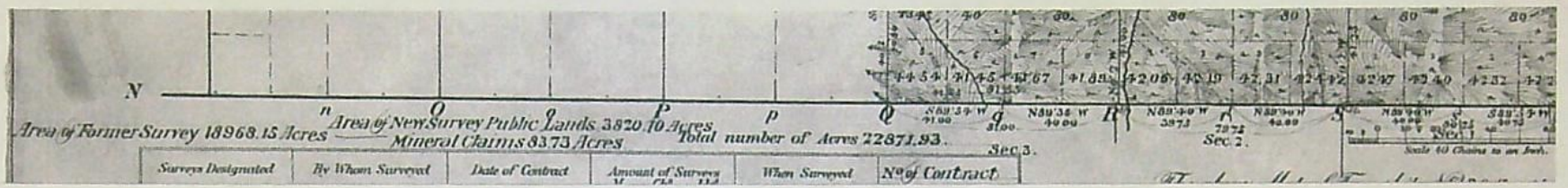



N
Area of Former Survey 18968.15 Acres
Area of New Survey Public Lands 3820.10 Acres
Mineral Claims 8373 Acres
Total number of Acres 22871.93.
Sec 3.
Sec 2.
Surveys Designated
By Whom Surveyed
Date of Contract
Amount of Surveys
When Surveyed
No of Contract

Permit No. 26901

*APPLICATION FOR PERMIT

To Appropriate the Public Waters of the State of Oregon

I, City of Grants Pass Water Department (Name of applicant)

of City Hall, 4th and "H" Streets, Grants Pass, Oregon (Mailing address),

State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation Municipal Corporation chartered by the legislative assembly of the State of Oregon on February 16, 1901

1. The source of the proposed appropriation is Rogue River (Name of stream), a tributary of .....

2. The amount of water which the applicant intends to apply to beneficial use is 25 cubic feet per second. (If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is domestic and all other (Irrigation, power, mining, manufacturing, domestic supplies, etc.) municipal purposes.

4. The point of diversion is located 1133 ft. South (N. or S.) and 2870 ft. West (E. or W.) from the NE corner of Section 20 (Section or subdivision)

(If preferable, give distance and bearing to section corner)

being within the NE¼ NW¼ Section 20, T.36S, R.5W.
(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the City of Grants Pass (Give smallest legal subdivision) of Sec. 7, 8, 17, 18/19 & 20, Tp. 36 S (N. or S.), R. 5 W. (E. or W.), W. M., in the county of Josephine

5. The ..... (Main ditch, canal or pipe line) to be ..... (Miles or feet) in length, terminating in the City of Grants Pass (Smallest legal subdivision) of Sec. 7, 8, 17, 18/19 & 20, Tp. 36 S (N. or S.), R. 5 West (E. or W.), W. M., the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam None feet, length on top ..... feet, length at bottom ..... feet; material to be used and character of construction ..... (Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate None (Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Present (2160 gpm 2500 gpm 1250 gpm 850 head 42') Future (four pumps of 4,000 gpm) All Electric. (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Partial reduction of 10.13 cfs (64.5%) of the 25 cfs permitted by S-26901 - Remaining 8.87 cfs

17

26901

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, ... ft.; size at intake, ... in.; size at ..... ft. from intake ..... in.; size at place of use ..... in.; difference in elevation between intake and place of use, ... ft. Is grade uniform? ..... Estimated capacity, ... sec. ft.

8. Location of area to be irrigated, or place of use .....

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
36 S	5 W	7	S½ & E½ NE¼	Municipal
		8	All	
		9	W½	
		16	W½	
		17	All	
		18	All	
		19	All	
		20	All	
		21	NW¼ & N½ SW¼	

(If more space required, attach separate sheet)

(a) Character of soil .....

(b) Kind of crops raised .....

Power or Mining Purposes—

9. (a) Total amount of power to be developed ..... theoretical horsepower.

(b) Quantity of water to be used for power ..... sec. ft.

(c) Total fall to be utilized ..... (Head) feet.

(d) The nature of the works by means of which the power is to be developed .....

.....

(e) Such works to be located in ..... (Legal subdivision) of Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(f) Is water to be returned to any stream? ..... (Yes or No)

(g) If so, name stream and locate point of return .....

....., Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(h) The use to which power is to be applied is .....

(i) The nature of the mines to be served .....

Municipal or Domestic Supply—

10. (a) To supply the city of Grants Pass, Josephine County, 28901

(Name of) County, having a present population of 10,001

and an estimated population of 21,000 in 1980

(b) If for domestic use state number of families to be supplied 5,250

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $872,600 - This cost is for an expansion of the Water treatment plant only. This will be done in 3 phases to be completed by 1980.

12. Construction work will begin on or before The construction work is contingent on a vote of the public. The above costs are from a water system investigation by Cornell, Howland, Hayes & Merryfield done in 1960.

13. Construction work will be completed on or before

14. The water will be completely applied to the proposed use on or before About 1980.

(Signature of applicant)

Water Superintendent

Remarks: This application was made on the direct recommendation by Cornell, Howland, Hayes and Merryfield in an Engineering Report on a Water System investigation for the City of Grants Pass, Oregon. If there are any questions on the proposed use, a copy of this investigation is available at your request.

STATE OF OREGON, }
County of Marion, } ss.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before October 11, 1960

WITNESS my hand this 11th day of August, 1960

LEWIS A. McARTHUR
STATE ENGINEER

By Walter N. Perry
ASSISTANT

PERMIT

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

The use to which this water is to be applied is municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 c.f.s.

If for irrigation, this appropriation shall be limited to - - of one cubic foot per second or its equivalent for each acre irrigated

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

The priority date of this permit is July 19, 1960

Actual construction work shall begin on or before September 20, 1964 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1964

Complete application of the water to the proposed use shall be made on or before October 1, 1964

WITNESS my hand this 20th day of September, 1960

Lewis A. Stanley
STATE ENGINEER

Application No. 34141

Permit No. 26901

PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the [illegible] day of [illegible], 19[illegible], at [illegible] o'clock [illegible] M.

Returned to applicant:

Approved:
September 20, 1960

Recorded in book No. 73 of Permits on page 26901

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. 15 page 60F

Fees

State Printing 96137

Not Included in COBU or MAP

WORK COPY

STATE OF OREGON

COUNTY OF JOSEPHINE

ORDER APPROVING AN ADDITIONAL POINT OF DIVERSION

Pursuant to ORS 537.211, after notice was given and no objections were filed, and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT 8032 submitted by

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS, OREGON 97526.

The permit to be modified is Permit 26901 with a date of priority of JULY 19, 1960. The permit allows the use of the ROGUE RIVER, a tributary of the PACIFIC OCEAN, for MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 25.0 cubic feet per second, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cubic feet per second, if available at the authorized point of diversion: NE¼ NW¼, SECTION 20, T 36 S, R 5 W, W.M.; 1133 FEET SOUTH AND 2870 FEET WEST FROM THE NE CORNER OF SECTION 20, or its equivalent in case of rotation, measured at the point of diversion from the source.

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

The authorized place of use is located as follows:

E½ NE¼
S½
SECTION 7

ALL
SECTION 8

W½
SECTION 9

W½
SECTION 16

ALL
SECTION 17

ALL
SECTION 18

ALL
SECTION 19

ALL
SECTION 20

NW¼
N½ SW¼
SECTION 21

TOWNSHIP 36 SOUTH, RANGE 5 WEST, W.M.

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

The applicant proposes an additional point of diversion at:

SE¼ NE¼, SECTION 24, T 36 S, R 6 W, W.M.; 2400 FEET SOUTH AND 540 FEET WEST FROM THE NE CORNER OF SECTION 24.

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

1. The quantity of water diverted at the new point of diversion, together with that diverted at the old point of diversion, shall not exceed the quantity of water lawfully available at the original point of diversion.

2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same surface water source as the original point of diversion.

4. All other terms and conditions of the permit remain the same.

5. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Permit 26901, in the name of CITY OF GRANTS PASS WATER DEPARTMENT, is amended as described herein.

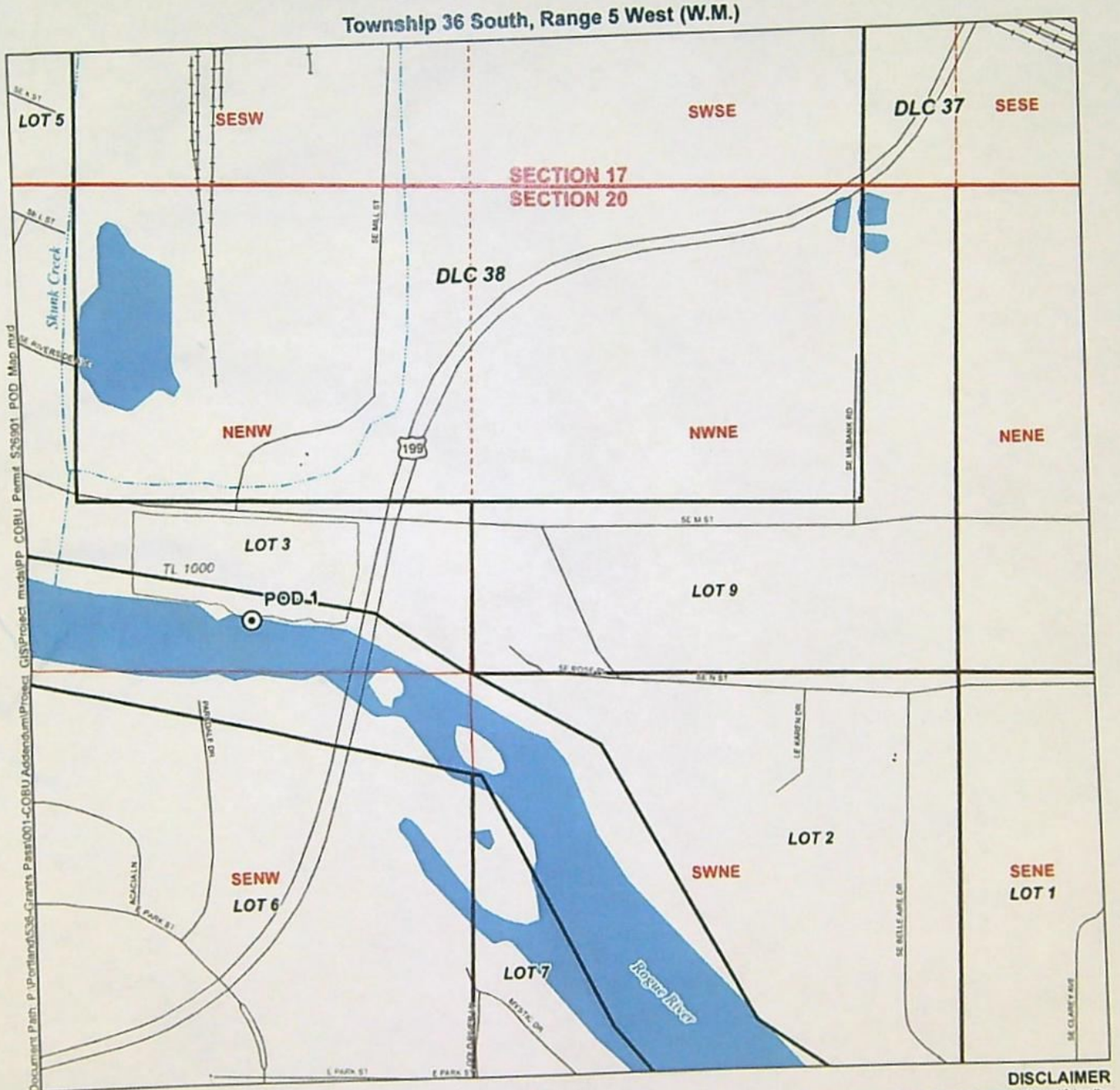
WITNESS the signature of the Water Resources Director, affixed AUG 20 1998.

For Martha O. Pagel, Director

Partial Perfection Claim of Beneficial Use - Point of Diversion Map
Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

Township 36 South, Range 5 West (W.M.)



LEGEND

- Point of Diversion
- Donation Land Claims (DLCs) and Government Lots
- Roads
- Railroads
- Watercourses
- Waterbodies

POD LOCATION DESCRIPTION

POD 1
Located 317 feet South and 1,668 feet West from the S SE corner J Jones DLC No 38

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON

EXPIRES: 12-31-2014

DISCLAIMER

This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:

Date: October 22, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI
Prepared By: GSI Water Solutions, Inc.

N

0 200 400
1 inch = 400 feet

GSI Water Solutions, Inc.

Oregon Water Resources Department
Water Right Services Division

Water Rights Application
Number S-34141

Final Order
Extension of Time for Permit Number S-26901, modified by Permit Amendment T-8032
Permit Holder: City of Grants Pass

Permit Information
Application File S-34141/ Permit S-26901, modifed by Permit Amendment T-8032
Basin 15 – Rogue Basin / Watermaster District 14
Date of Priority: July 19, 1960

Authorized Use of Water

Source of Water:	The Rogue River, a tributary of Pacific Ocean
Purpose or Use:	Municipal Use
Maximum Rate:	25.0 Cubic Feet per Second (cfs), further limited to use when the flow of the Rogue River at the mouth is greater than 735 cfs

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This Extension of Time request is being processed in accordance with Oregon Revised Statute 537.230 and 539.010(5), and Oregon Administrative Rule Chapter 690, Division 315

Application History
Permit S-26901 was issued by the Department on September 20, 1960, and modified by Permit Amendment T-8032 on August 20, 1998. The permit called for completion of construction by October 1, 1964, and complete application of water to beneficial use by October 1, 1964. The most recent extension authorized completion of construction and complete application of water to beneficial use by October 1, 1999. On September 3, 2002, the City of Grants Pass submitted an application to the Department for an extension of time for Permit S-26901. In accordance with OAR 690-315-0050(2), on December 3, 2013, the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2040, and the time to fully apply water to beneficial use to October 1, 2040. The protest period closed January 17, 2014, in accordance with OAR 690-315-0060(1). WaterWatch of Oregon, Inc. filed a timely protest, but subsequently withdrew their protest by letter dated June 5, 2014.

Findings of Fact

On January 27, 2014, the City submitted additional information documenting that 16.95 cfs of water used under Permit S-26901 put to beneficial use prior to October 1, 1999[1]; therefore the undeveloped portion of the permit is 8.05 cfs as defined in OREGON COURT OF APPEALS A147071 WATERWATCH VS OWRD & CITY OF COTTAGE GROVE, 2013.

Except as expressly stated herein, the Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated December 3, 2013.

The Proposed Final Order is modified in its entirety to the extent that references made to the developed portion in the Proposed Final Order are changed *from 17.2 to 16.95 cfs* and references to the undeveloped portion are changed *from 7.8 to 8.05* cfs. The Conditions included in this Final Order reflect these changes.

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 any water beyond 16.95 cfs under Permit S-26901 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of diversion of water under the permit consistent with OAR 690-086-0130(7). The required WMCP shall be submitted to the Department within 3 years of this Final Order. The amount of water used under Permit S-26901 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, on file with the Department.

The deadline established in this Extension Final Order for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this final order may also meet the WMCP submittal requirements of other Department orders.

2. **Conditions to Maintain the Persistence of Listed Fish**

The developed portion of the permit, being 16.95 cfs, is *not* subject to these fish persistence conditions.

A. Fish Persistence Target Flows

a. Fish persistence target flows in the Rogue River as recommended by ODFW are in Table 1, below; flows are to be measured in the Rogue River near

[1] Pump operation records from the City of Grants Pass demonstrate that the filtration plant intake had an influent flow of 8.69 million gallons over a 10.5 hour pumping period resulting in an intake flow of 30.75 cfs, being 12.5 cfs authorized under Certificate 15839, 1.3 cfs under Permit S-47346, and 16.95 cfs under Permit S-26901.

Agness, Oregon (USGS Gage Number 14372300, or its equivalent).

Table 1

FISH PERSISTENCE TARGET FLOWS ON THE ROGUE RIVER MEASURED AT USGS GAGE 14372300 NEAR AGNESS, OREGON	
Month	Cubic Feet per Second
January 1 – April 30	935
May 1 – June 30	3800
July 1 – Sept 10	2000
September 11 – December 31	935

b. Alternate Streamflow Measurement Point

The location of a target flow measurement point as established in these Conditions to Maintain the Persistence of Listed Fish may be revised if the City provides evidence in writing that ODFW has determined that persistence flows may be measured at an alternate streamflow measurement point and provides an adequate description of the location of the alternate streamflow measurement point, and the Water Resources Director concurs in writing.

B. Determining Water Use Reductions – Generally

The maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition is determined in proportion to the amount by which the flows shown in Table 1 are missed based on a seven-day rolling average of mean daily flows measured in the Rogue River at the specified gage location. The percent of missed target flows is defined as:

$$(1 - [Q_A / Q_T]) \times 100\%,$$

where Q_A is the actual flow measured at the designated location based on the seven-day rolling average, and Q_T is the target flow (from Table 1).

The percent by which the target flow is missed applied to the undeveloped portion of the permit provides the maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition, and is defined as:

$$E - (E \times \% \text{ missed target flow}),$$

where E is the undeveloped portion of the permit as of this extension, being 8.05 cfs.

The maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition may be adjusted by a Consumptive Use Percentage, when applicable, as per Item 2.C., below.

When $Q_A \geq Q_T$, the amount of the undeveloped portion of the permit that can be

diverted would not need to be reduced as a result of this fish persistence condition.

C. Consumptive Use Percentages for Utilization in Rogue River Calculations

a. Initial Consumptive Use Percentages
The City of Grants Pass has not identified any Consumptive Use Percentages based on the return of flows to the Rogue River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages
Utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.C.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates
Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.C.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.C.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use*

Percentages Update Form provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Rogue River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Rogue River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.C.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that ends 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.C.d., or 2.C.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are

submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

D. Examples

Example 1: Target flow met.

On June 15, the last seven mean daily flows in the Rogue River at the Agness gage were 4100, 4000, 4100, 4000, 3900, 3800 and 3800 cfs. The seven-day rolling average (Q_A) is 3957 cfs. The amount of the undeveloped portion of the permit that can be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 3800 cfs target flow (Q_T) for June 15. In this example, $Q_A \geq Q_T$.

Example 2: Target flow missed.

Step 1: If on June 15, the average of the last seven mean daily flows (Q_A) was 2600 cfs, and the target flow (Q_T) is 3800, then the target flow would be missed by 31.6 %.

$$(1 - (2600 / 3800)) \times 100\% = 31.6\%$$

Step 2: Assuming the Consumptive Use Percentage is 62.2%[2] during the month of June and the utilization of this percentage is authorized, and the target flow is missed by 31.6% (from Step 1), then the amount of the undeveloped portion of the permit that could be diverted would be reduced by 19.7%.

$$(62.2\% \times 31.6\%) / 100 = 19.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, then the undeveloped portion of the permit would be reduced only by the % by which the target flow is missed – 31.6% in this example).

[2] Currently, the City of Grants Pass may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The utilization of the Consumptive Use Percentage 62.2% is only for illustrative purposes in this example.

Step 3: Given that the undeveloped portion of this permit as of this extension (E) is 8.05 cfs, and the undeveloped portion of the permit needs to be reduced by 19.7% (from Step 2), or 1.59 cfs, then the maximum amount of the undeveloped portion of Permit S-26901 that could be diverted as a result of this fish persistence condition would be 6.46 cfs. (This maximum amount may be limited as illustrated in Step 4, below.)

$$(8.05 \times 19.7\%) / 100) = 1.59$$

$$8.05 - 1.59 = 6.46$$

Step 4: The calculated maximum amount of water that could be diverted under the permit due to the fish persistence condition may not exceed the amount of water to which the City is legally entitled to divert. In this example, if the amount of water legally authorized for diversion under this permit is 20.0 cfs (for example, authorization provided through a WMCP), then 20.0 cfs would be the maximum amount of diversion allowed under this permit including the developed portion of the permit, being 16.95 cfs.

(Conversely, if the amount of water legally authorized for diversion under this permit is 24 cfs, then 23.41 cfs (6.46 from Step 3 + the 16.95 developed portion) would be the maximum amount of diversion allowed under this permit.)

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.230, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application S-34141, Permit S-26901, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended from October 1, 1999 to October 1, 2040. The deadline for applying water to full beneficial use within the terms and conditions the permit is extended from October 1, 1999 to October 1, 2040.

DATED: June 13, 2014

Dwight French
Water Right Services Division Administrator, for
Director
Oregon Water Resources Department

If you have any questions about statements contained in this document, please contact Ann L. Reece at (503) 986-0834.

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

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

"Consumptive Use Percentages" Update Form

TO THE WATER RIGHTS ADMINISTRATOR
OF THE OREGON WATER RESOURCES DEPARTMENT

Re: Fish Persistence Condition Applicable to:
Application S-34141 / Permit 26901
Permit Holder: City of Grants Pass

"Consumptive Use Percentages" Updates

1. **For each month listed below, provide the consumptive use percentage for the purpose of calculating the maximum total amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of the fish persistence condition on the extension Final Order Dated June 13, 2014.**

Month	Consumptive Use Percentage	Month	Consumptive Use Percentage
January	%	July	%
February	%	August	%
March	%	September	%
April	%	October	%
May	%	November	%
June	%	December	%

2. **Provide a description and justification of the methods utilized to determine the percentages. Please attach additional pages as necessary.**

3. **The use of these "Consumptive Use Percentages" for the purposes stated above may continue for a 10 year approval period unless further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates due to changes in wastewater technology and/or the wastewater treatment plant or due to relocation of the point(s) of diversion(s) and/or return flows.**

Signature_____ Date_____

For OWRD use only

WRD Concurs with these "Consumptive Use Percentages" Updates ☐ Yes ☐ No

Approved by: _____ Date: _____
for the Water Resources Director

Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: June 13, 2013 **Copies Mailed**

Application S-34141 **By:** BW
Permit S-26901 **On:** 6/13/14

Original mailed to permit holder:

City of Grants Pass
Attn: Jason Canady
101 NW "A" Street
GRANTS PASS, OR 97526

Copies sent to:

1. WRD - App. File S-34141/ Permit 34141-26901
2. Brian Ginter; Murray Smith and Associates; 121 SW Salmon, Suite 900, Portland, OR 97075
3. Adam Sussman, GSI Water Solutions
4. WaterWater of Oregon

Fee paid as specified under ORS 536.050 to receive copy:

5. None

Receiving electronic copy via e-mail *(10 AM day of signature date)* ✓
(DONE BY EXTENSION SPECIALIST

6. WRD - Watermaster District 14, Katherine Smith
7. WRD – SWR Regional Manager, Larry Menteer
   NOTE: Denials ONLY to Region Managers
8. WRD –Lisa Jaramillo, Technical Services *(for MU and QM requiring Division 86 plan)*

CASEWORKER: ALR

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GSI
Water Solutions, Inc.

June 18, 2014

Mr. R. Craig Kohanek
Certificate Reimbursement Authority Program
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271

RE: Addendum to Partial Perfection Claim of Beneficial Use Report for Permit S-26901 and Request for Reimbursement Authority Processing

Mr. Kohanek:

This addendum is submitted on behalf of the City of Grants Pass to provide additional information to supplement the partial perfection Claim of Beneficial Use (COBU) report on-file at the Department for Permit S-26901 (dated August 24, 2001) and to request expedited processing of the COBU through Reimbursement Authority.

Additional Data Documenting Beneficial Use of Water for Partial Perfection of the Permit

The City holds a total of four water rights for use of water from the Rogue River for municipal water supply as shown in Table 1.

Table 1. City water rights for the Rogue River.

Application	Permit	Certificate	Authorized Rate of Use (cfs)
--	--	15839	12.5
S-34141	S-26901		25
S-41672	S-45827		25
S-64732	S-47346		25

The original COBU documented the City's ability to beneficially use 28.63 cubic feet per second (cfs) of water from the Rogue River, being 12.5 cfs under Certificate 15839 and 16.13 cfs under Permit S-26901. However, the City had beneficially used water at a rate greater than this prior to the October 1, 1999 completion date (C-date) of the permit. Data from the City's water treatment plant collected during July 1999 is provided in Attachment 1 to document the City's maximum rate of beneficial use of water from the Rogue River prior to October 1, 1999. As shown by the data, the City beneficially used water at a total rate of 30.75 cfs for 10.5 hours on

July 15, 1999. The total 30.75 cfs rate of beneficial use represents an aggregate rate of the water rights held by the City for the Rogue River as allocated in Table 2.

Table 2. July 15, 1999 beneficial use rate allocated by water right.

Application	Permit	Certificate	Rate of Use (cfs)
--	--	15839	12.50
S-34141	S-26901		16.95
S-41672	S-45827		0
S-64732	S-47346		1.3

As shown in Table 2, the City has developed and beneficially used 16.95 cfs under Permit S-26901, which is 68% of the permit authorized rate. The City requests to partially perfect this portion of the permit, with the remaining 8.05 cfs to remain in the permit stage for future development and use by the City.

The residual 8.05 cfs of Permit S-26901 will be developed by the City in response to future water demand, which is anticipated to increase in response to population growth and changes in service area size. The City's Water Management and Conservation Plan and permit time extension application provide a summary of the population growth projections and a proposed plan for meeting the forecasted increase in population and water demand, which includes further development of Permit S-26901.

Theoretical Pump Calculation

A calculation of the theoretical pumping capacity of the intake pump at the operational conditions on July 15, 1999 is provided below. Documentation of the theoretical pump calculation is provided in Attachment 2.

Theoretical Pump Capacity

ID	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)
1	**75**	**Not measured**	**30.0 ft**	**16.8 ft**	**31.5**
2	**75**	**Not measured**	**30.0 ft**	**16.8 ft**	
3	**75**	**Not measured**	**30.0 ft**	**16.8 ft**	
4	**75**	**Not measured**	**30.0 ft**	**16.8 ft**	

Clarification of the Place of Use

An additional COBU map is provided in Attachment 3 as a supplement to those maps included with the original COBU to clarify the area where water was beneficially used in accordance with the terms and conditions of the permit.

Compliance with Permit Conditions

The original COBU documents the City's compliance with the conditions of use listed on Permit S-26901 but does not discuss the additional conditions of use listed on permit amendment T-

8032. The additional conditions added by permit amendment T-8032, requiring flow measurement and fish screening or bypass, are specific to the additional point of diversion added by the permit amendment. These additional conditions are not applicable for this partial perfection COBU because the City's beneficial use as documented herein pertains only to the original point of diversion. Future partial perfection COBUs for Permit S-26901 including the City's use of the additional point of diversion added by T-8032, will provide documentation of the City's compliance with the additional conditions of permit amendment T-8032.

Variations

Point of Diversion - This partial perfection COBU pertains only to the City's use of the original point of diversion; as a result, the additional point of diversion added by permit amendment T-8032 is not discussed. Future partial perfection COBUs for Permit S-26901 including the City's use of the additional point of diversion added by T-8032, will include documentation and location information for the additional point of diversion.

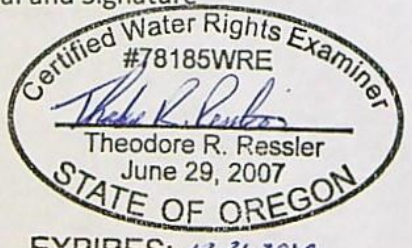
Place of Use - The place of use as shown on the map in Attachment 2 differs slightly from that listed in the permit because the place of use has been limited to only those quarter-quarters within the authorized place of use where beneficial use of water has occurred.

Request for Expedited Review

The City would like to use Reimbursement Authority processing for the COBU and a Reimbursement Authority Estimate Application is enclosed. Please also find enclosed a check in the amount of $125 for payment of the Reimbursement Authority estimate fee.

Please feel free to contact me with any questions about this addendum to the COBU report for Permit S-26901.

Seal and Signature



EXPIRES: 12-31-2014

The facts contained in this addendum to the COBU report for Permit S-26901 are correct to the best of my knowledge.

Jason Canady
Water Plant Superintendent
City of Grants Pass

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Attachment 1

Additional Beneficial Use Data

Addendum to Partial Perfection Claim of Beneficial Use for Permit S-26901

MRDate	Influent Flow in MGD		Pump 1 Hours	Pump 2 Hours	Pump 3 Hours	Pump 4 Hours		Flow in GPM	Flow in CFS
Thursday, July 01, 1999	9.00		11.25	11.25	11.25	11.25		13,337	29.72
Friday, July 02, 1999	8.06		9.5	10.25	10.25	10.25		13,108	29.21
Saturday, July 03, 1999	7.94		10.75	10.75	9	9		12,309	27.43
Sunday, July 04, 1999	7.41		9.25	9.25	9.25	9.25		13,343	29.73
Monday, July 05, 1999	8.25		10.25	10.25	10.25	10.25		13,422	29.91
Tuesday, July 06, 1999	8.26		10.25	10.25	10.25	10.25		13,434	29.93
Wednesday, July 07, 1999	8.69		10.75	10.75	10.75	10.75		13,467	30.01
Thursday, July 08, 1999	7.65		9.75	9.75	9.75	8.75		13,072	29.13
Friday, July 09, 1999	10.09		12.5	12.5	12.5	12.5		13,454	29.98
Saturday, July 10, 1999	8.79		11.25	11.25	11.25	11.25		13,019	29.01
Sunday, July 11, 1999	9.37		11.75	11.75	11.75	11.75		13,295	29.62
Monday, July 12, 1999	9.45		11.75	11.75	11.75	11.75		13,406	29.87
Tuesday, July 13, 1999	9.55		12	12	12	12		13,259	29.54
Wednesday, July 14, 1999	8.26		10.25	10.25	10.25	10.25		13,426	29.92
Thursday, July 15, 1999	8.69		10.5	10.5	10.5	10.5		13,800	30.75
Friday, July 16, 1999	8.45		10.5	10.5	10.5	10.5		13,415	29.89
Saturday, July 17, 1999	9.00		11.25	11.25	11.25	11.25		13,337	29.72
Sunday, July 18, 1999	8.30		10.25	10.25	10.25	10.25		13,500	30.08
Monday, July 19, 1999	9.87		12.25	12.25	12.25	12.25		13,433	29.93
Tuesday, July 20, 1999	9.05		11.25	11.25	11.25	11.25		13,401	29.86
Wednesday, July 21, 1999	8.86		11.75	11.75	11.75	11.75		12,566	28.00
Thursday, July 22, 1999	9.64		12	12	12	12		13,387	29.83
Friday, July 23, 1999	8.89		11.25	11.25	11.25	11.25		13,176	29.36
Saturday, July 24, 1999	8.34		10.5	10.5	10.5	10.5		13,237	29.49
Sunday, July 25, 1999	8.89		11.25	11.25	11.25	11.25		13,167	29.34
Monday, July 26, 1999	9.01		11.25	11.25	11.25	11.25		13,342	29.73
Tuesday, July 27, 1999	7.78		9.75	9.75	9.75	9.75		13,298	29.63
Wednesday, July 28, 1999	11.13		14	14	14	14		13,250	29.52
Thursday, July 29, 1999	9.31		11.75	11.75	11.75	11.75		13,206	29.42
Friday, July 30, 1999	9.00		11.25	11.25	11.25	11.25		13,337	29.72
Saturday, July 31, 1999	8.81		11	11	11	11		13,351	29.75
								Average Flow In GPM	Average Flow in CFS
								13,276	29.58

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Attachment 2

Theoretical Pump Capacity Calculation

Addendum to Partial Perfection Claim of Beneficial Use for Permit S-26901

Theoretical Pump Capacity Calculation

Data:

- River stage at USGS gage 14361500 on 7/15/1999 = 3.62 ft
- Lift from source (river level) to pump discharge = 30.0 feet
- Lift from pump discharge to water treatment plant inlet = 16.8 feet
- Four (4) 75 horsepower line shaft turbine pumps. Design flow of 3200 gpm at TDH of 65 feet.
- Approximately 225 feet of 12-inch pump column and raw water pipeline from pump intake to 36-inch raw water pipeline
- Approximately 25 feet of 36-inch raw water pipeline to water treatment plant inlet.

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Theoretical Flow Rate and Frictional Loss Calculator

Parameters

TDH (less frictional losses)	46.8 ft		
Pump horsepower	75	Number of pumps	4
Pump conversion factor	6.18		

Pipe Sections	1	2
Pipe length (ft)	40	25
Pipe diameter (in)	12	36
Pipe material	Steel	Steel
Hazen-Williams roughness coefficient	140	140

hf_1 (/ft)	hf_2 (/ft)	TDH (ft)	Q (cfs)
0.010000	0.010000	47.5	39.0685
0.445480	0.002125	64.7	28.6645
0.251210	0.001198	56.9	32.5924
0.318577	0.001520	59.6	31.1139
0.292358	0.001395	58.5	31.6731
0.302153	0.001441	58.9	31.4619
0.298435	0.001424	58.8	31.5417
0.299838	0.001430	58.8	31.5115
0.299308	0.001428	58.8	31.5229
0.299508	0.001429	58.8	31.5186
0.299432	0.001428	58.8	31.5202
0.299461	0.001429	58.8	31.5196
0.299450	0.001429	58.8	31.5199
0.299454	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198
0.299453	0.001429	58.8	31.5198

Equations used in calculation

Q_{pump} = [Pump Horsepower] × [Pump Conversion Factor] ÷ [TDH]

Conversion factor = Q_{design} × TDH_{design} ÷ [Pump Horsepower]

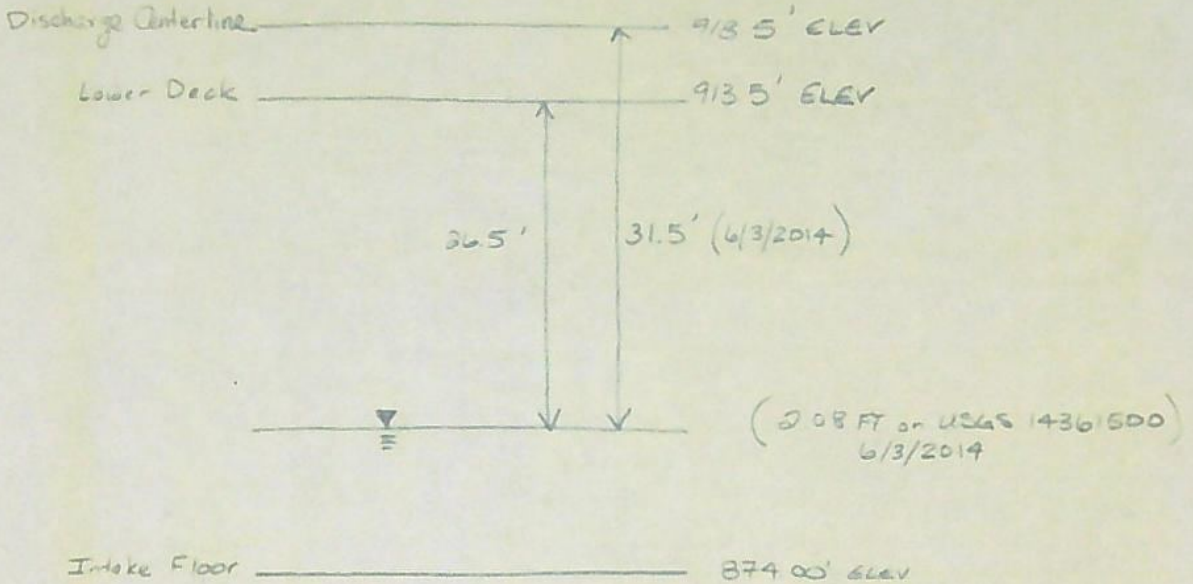
$h_f/ft = 0.002083 \times (100 \times [Flow] \div [Roughness\ Coefficient])^{1.85} \times [Pipe\ Diameter]^{-4.8655}$

0.01 enter first guess of h_f/ft frictional loss for pipe

Notes:

Additional fictional losses due to pipeline fittings are not included, which would further reduce the calculated theoretical flow rate

STAEDTLER No. 937 811E Engineer's Computation Pad



River level on 7/15/1499 = 3.62 FT on USGS gage (per Daily Operations Worksheet)

At this river level,

- Pumping lift from source to pump discharge
  = 31.5 - (3.62 - 2.08) = 29.96 ft
- Additional lift from pump discharge to mixing basin
  = 935.35 - 918.5 = 16.85 ft

∴ Total lift (w/o friction losses) = 29.96 + 16.85 = 46.81 ft

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DAILY OPERATIONS WORKSHEET

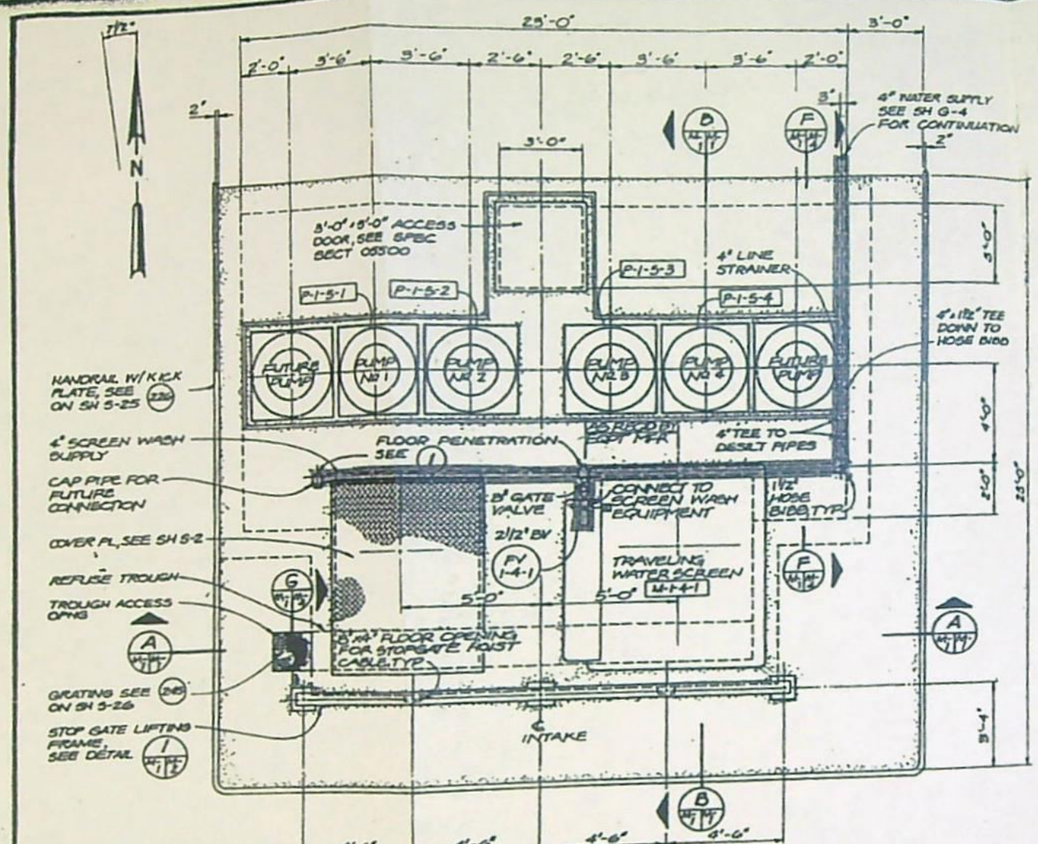
DATE: 7-15-99

	START	FINISH
INFLUENT FLOW TOTAL MGD	ϕ	86940
EFFLUENT FLOW TOTAL MGD	ϕ	77238
RESERVOIR #3 LEVEL FT	9.0	15.8
RESERVOIR #4 LEVEL FT.	18.5	19.4
RESERVOIR #5 LEVEL FT.	16.3	28.3
RESERVOIR #6 LEVEL FT.	26.8	26.1
RESERVOIR #8 LEVEL FT.	14.6	16.1
RESERVOIR #15 LEVEL FT.	9.5	8.9
RESERVOIR #13 LEVEL FT.	7.1	7.2
CHLORINE SCALE WEIGHT lbs	885	735
FILTER AID TANK LEVEL	114/230	0/215
#1 ALUM TANK LEVEL	3060	2970
#2 ALUM TANK LEVEL	3010	2920

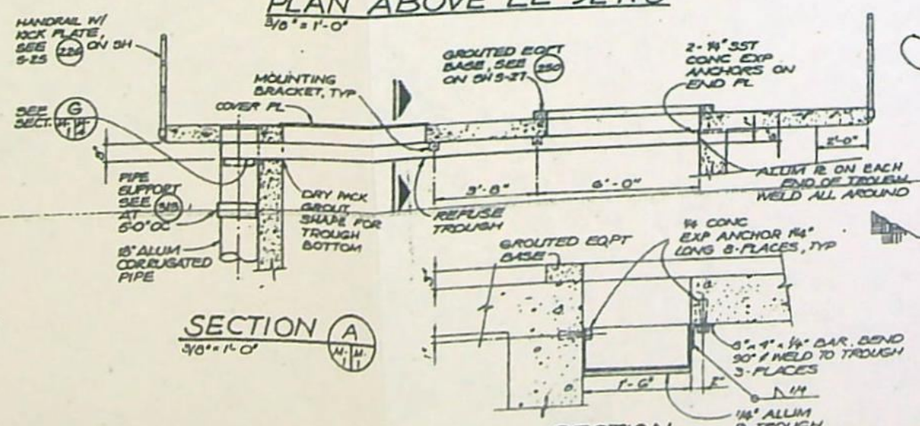
RIVER LEVEL (8:00 am)	cfs	(3:00 pm)	cfs	(Average cfs)
3.47 + .15 = 3.62	3843	3.42 + .15 (3.57)	3750	3801

	(8:00AM)	(3:00PM)
RIVER TURBIDITY	3	3
RIVER TEMPERATURE	61	62

TEMPERATURE MAX	90	
(from KAJO Radio) MIN	45	
RAINFALL INCHES 24 HRS		
SNOWFALL INCHES		
BAROMETER INCHES	2998	29.87
CURRENT WEATHER CONDITION	CLEAR	CLEAR

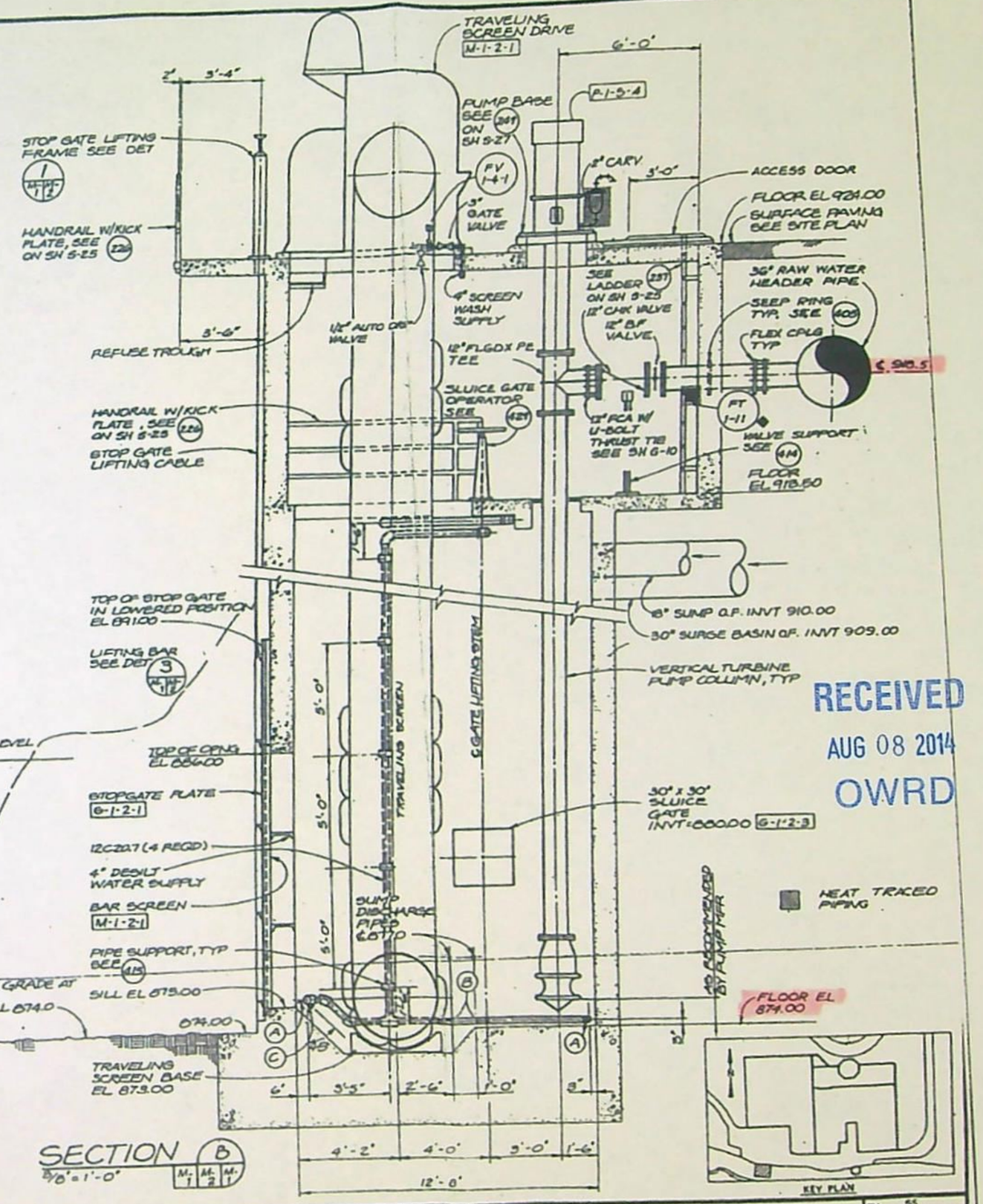


PLAN ABOVE EL 924.0
3/8" = 1'-0"



SECTION A
3/8" = 1'-0"

SECTION
1" = 1'-0"



SECTION B
3/8" = 1'-0"

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CH2M HILL

DES. ULA	
DR. MAW	
CHK. NCW	
APPD. AEM	

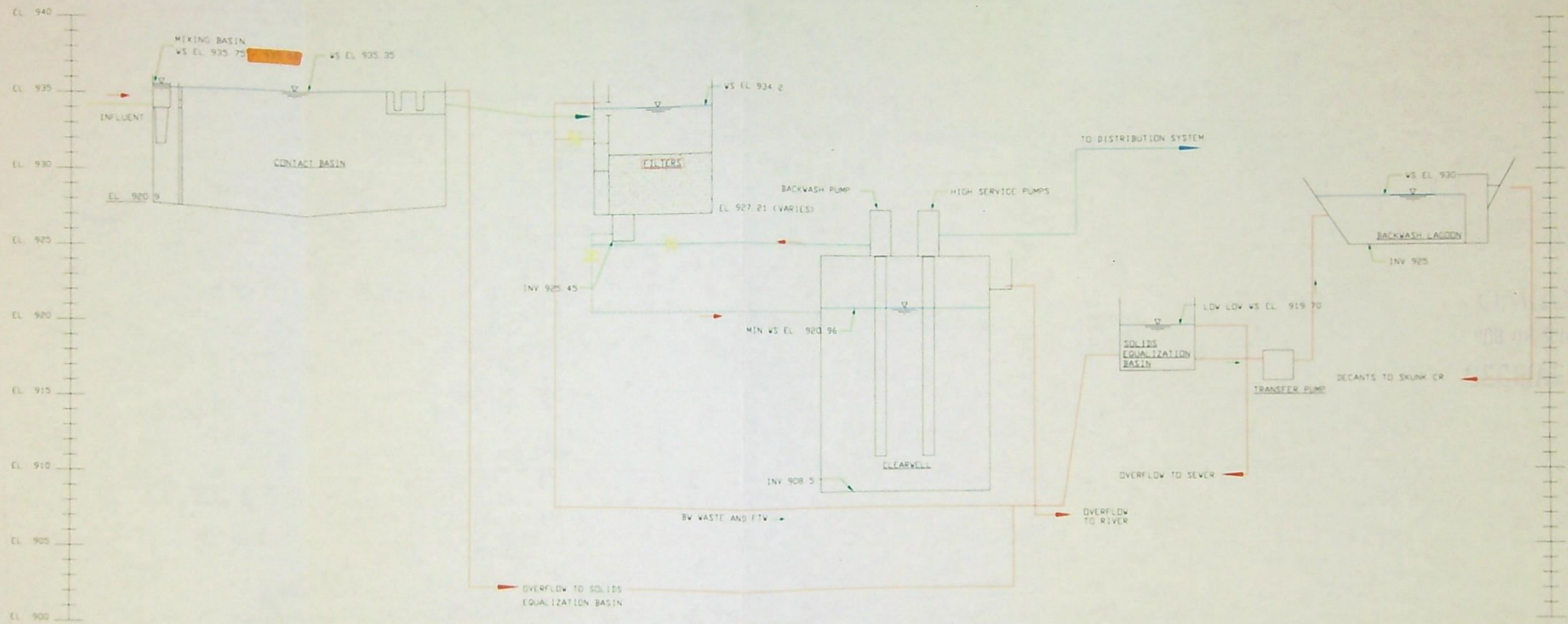
NO.	DATE	REVISION	BY	APPD.

THIS PRINT IS REDUCED TO ONE-HALF OF THE ORIGINAL SCALE
IF THE SCALE READS:
1"=1'-0" USE ½"=1'-0" 1"=10" USE 1"=20"

CITY OF GRANTS PASS, OREGON
WATER SYSTEM IMPROVEMENTS

MECHANICAL
RAW WATER INTAKE
PLAN AND SECTIONS

SH.	55
DWG. NO.	M-1
DATE:	APR 1980
FILE NO.	C13078.T1



MWH

Figure 4-1
City of Grants Pass
Water Treatment Plant Facility Plan
Existing WTP Hydraulic Profile

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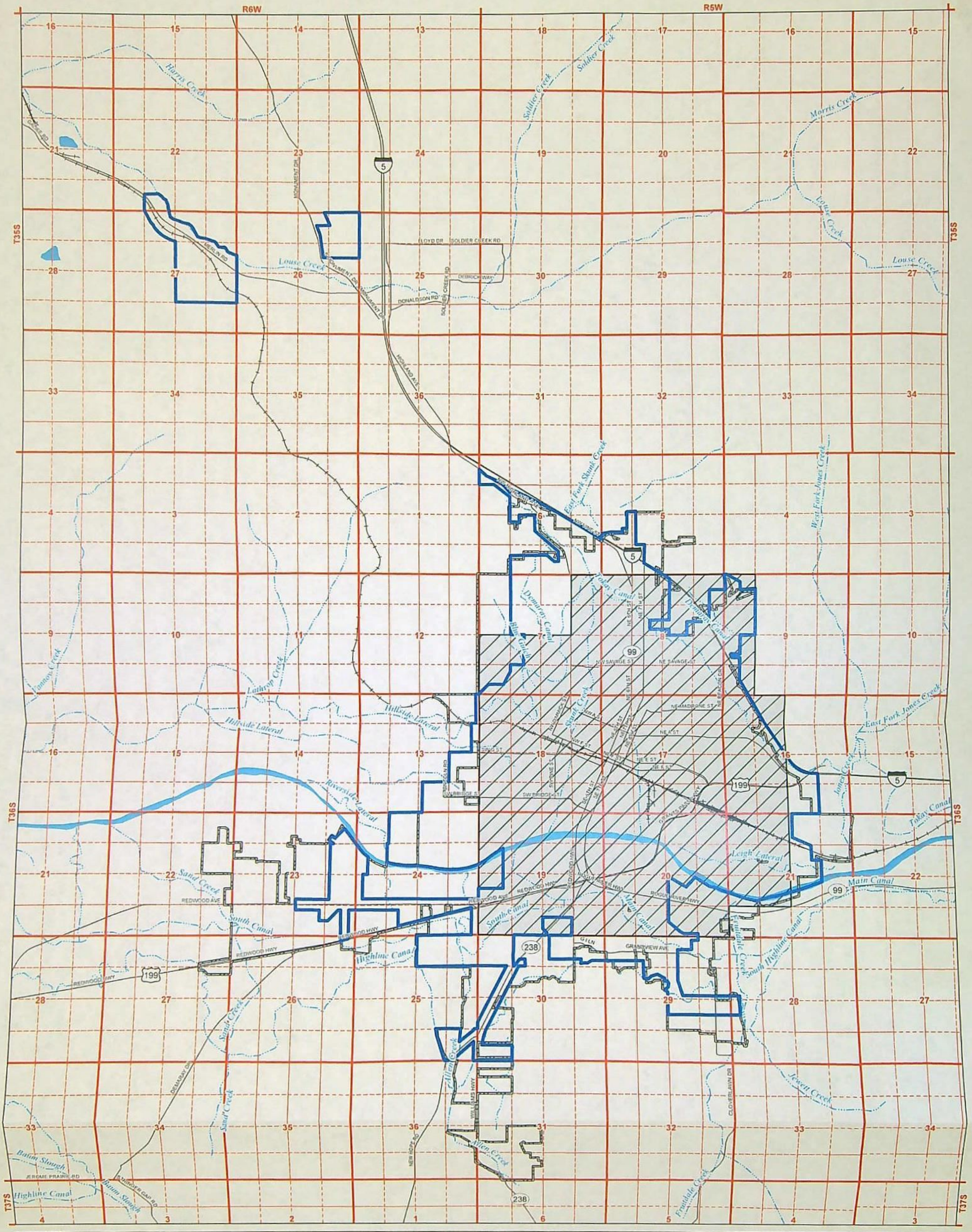
Attachment 3

Additional Claim of Beneficial Use Map

Addendum to Partial Perfection Claim of Beneficial Use for Permit S-26901



LEGEND

- Place of Use (POU)
- Water Service Area Boundaries
- City of Grants Pass City Limits
- Major Roads
- Railroads
- Watercourses
- Waterbodies

DISCLAIMER
This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:
Date: May 27, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON
EXPIRES: 12-31-2014

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Partial Perfection Claim of Beneficial Use Place of Use Map

Permit S-26901 (Application S-34141)
Water Right in the Name of City of Grants Pass

N
0 2,000 4,000 6,000
1 inch = 4,000 feet

GSI Water Solutions, Inc.

Document Path: P:\Portland\536-Grants Pass\001-COBU Addendum\Project_GIS\Project_mxds\PP_COBU_Permit_S26901_POU_Map.mxd

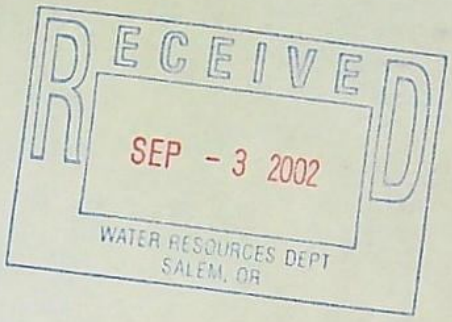
SITE REPORT

FOR

THE PARTIAL PERFECTION

OF

PERMIT NO. 26901



Located in:
Sections 22, 26, and 27, T.35S., R.6W., W.M.
Sections 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 28, 29, and 30, T.36S., R.5W., W.M.
Sections 13, 23, 24, 25, and 26, T.36S., R.6W., W.M.
Josephine County, Oregon

August 24, 2001

APPLICATION NO. 34141
PERMIT NO. 26901

Prepared For:

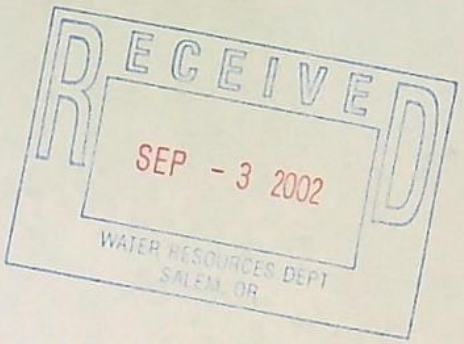
City of Grants Pass
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

Prepared By:

Gary D. Wicks, PE, PLS
WICKS ENGINEERING & SURVEYING
311 N.E. "D" Street
Grants Pass, Oregon 97526

Tel: (541) 479-3436
Fax: (541) 479-1014



PERMITTEE:

City of Grants Pass
Water Department
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

SOURCE:

Rogue River

TYPE OF USE:

Municipal

DIVERSION POINTS

Four 12" diameter ductile iron pipes and turbine pumps that manifold into a 36 inch diameter ductile iron pipe which conveys water to the water treatment plant. All four pipes are located in the NE1/4NW1/4 of Section 20, T.36S., R.5W., W.M. at a point 317 feet South and 1668 feet West of the SSE Corner of the J. Jones DLC No.38.

DIVERSION WORKS DESCRIPTION:

The diversion works are located at the water treatment plant and currently consist of four turbine pumps with spaces for two additional pumps that can be installed when required by increased demands. These pumps have 12" diameter ductile iron intakes and 12" diameter outlets that are connected by a manifold system to a 36" diameter ductile iron pipe which conveys water to the filtration and treatment processes within the plant.

Pumps: (Worthington) Peerless Single Stage
Size = 15HH3401-1
SN = VTP-56844
65 TDH @ 1760 rpm = 3200 gpm
Intake & Discharge size = 12"

Motors: U.S. Electric
Model = 404TP WPI Type RV
75 HP max RPM = 1780
440 volts 3 phase @ 60 hz.

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DISTRIBUTION SYSTEM

There are two 300 hp and three 250 hp pumps (see Table A, pg. 6) on the discharge side of the treatment plant which initially convey treated water into the service area delivery system. The service area is bounded by the Urban Growth Boundary, but also includes two areas near the Merlin Landfill and the North Valley Industrial Park. Approximately 131 miles of pipelines distribute the treated water to the City's customers, eight reservoirs, (see Table B, pg. 7) and ten booster pump stations (see Table A, pg. 6).

SYSTEM CAPACITY:

The current peak instantaneous demand is 28.63cfs as determined by flow meters at the treatment plant. 12.5cfs of this flow rate has already been certified per Certificate No. 15839 with a priority date of 1888. The City of Grants Pass wishes to partially perfect the remaining 16.13cfs as a portion (64.5%) of the 25cfs permitted per Permit No. 26901 with a priority date of July 19, 1960.

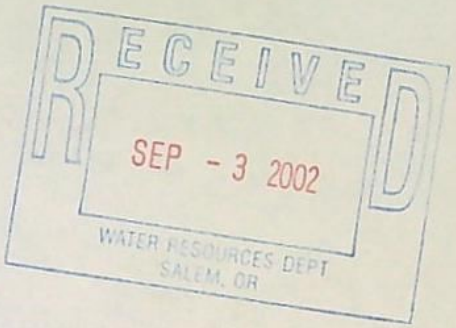
PLACE OF USE:

The current water service boundary is shown on the accompanying plat. The majority of the water usage occurs within, but is not limited to, the service area shown. For example, the city sells water that is delivered via trucks for users located outside the service area for domestic, irrigation, and industrial usages.

Service Area:

T35S, R6W
Sec 22: SE1/4SW1/4
Sec 26: NE1/4
Sec 27: NE1/4, NE1/4NW1/4, N1/2SE1/4

T36S, R5W
Sec 5: S1/2NW1/4, SW1/4
Sec 6: SW1/4NE1/4, NW1/4NW1/4, S1/2NW1/4, E1/2SW1/4, SE1/4
Sec 7: NE1/4, E1/2NW1/4, SW1/4SW1/4, E1/2SW1/4, SE1/4
Sec 8: Entire Section
Sec 9: W1/2NW1/4, W1/2SW1/4
Sec 16: NW1/4, SW1/4, W1/2SE1/4
Sec 17, 18, 19, and 20: Entire Section
Sec 21: W1/2NE1/4, NW1/4, SW1/4, W1/2SE1/4
Sec 28: SW1/4NW1/4, NW1/4SW1/4
Sec 29: NE1/4, N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4
Sec 30: N1/2NE1/4, NW1/4, W1/2SW1/4



Service Area (continued):

T36S, R6W
Sec 13: E1/2NE1/4,SW1/4SE1/4, E1/2SE1/4
Sec 23: E1/2NE1/4, SE1/4
Sec 24: NE1/4, NE1/4NW1/4, S1/2NW1/4, SW1/4, SE1/4
Sec 25: N1/2NE1/4, S1/2SE1/4
Sec 26: NE1/4NE1/4

LIFT:

The water service area contains eight pressure zones. The elevation range within the service area ranges from 880 feet to 1560 feet.

PERMIT CONDITIONS:

The only permit condition is one which limits the right to use water from the Rogue River to those periods when the flow at the mouth of the Rogue River is greater than 735cfs.

PRIORITY DATE:

July 19, 1960

REMARKS:

O.A.R. 690-320-0040 : Incremental Perfection of a Municipal Water Right requires the quantity of water diverted, by month, for the preceeding three years. This information is provided in Table C, pg. 7, for the years 1997 through 2001 to date. It is also required that a plan be provided that shows how the municipal supplier intends to develop successive increments of its water right. This information is being provided as an attachment of the City of Grants Pass Water Distribution Master Plan prepared by West Yost & Associates in January, 2001, which includes a System Map showing the existing and proposed future pipelines.

CERTIFICATIONS:

An inspection of the water usage completed by me on August 7, 2001 has disclosed that it was completed under terms and conditions of Permit No. 26901. The information in this report and represented on the accompanying plat is correct to the best of my knowledge.

Gary D. Wicks

Gary D. Wicks, C.W.R.E. 194

CERTIFIED WATER RIGHTS EXAMINER
194 WRE
Gary D. Wicks
Gary D. Wicks
May 17, 1988
STATE OF OREGON

I, William A. Peterson, Jr., Water Superintendent for the City of Grants Pass, agree to the findings of Gary D. Wicks, C.W.R.E. 194, and do submit this site report and plat as our claim of partial perfection of the beneficial use of the water of the Rogue River as provided under the terms and conditions of Permit No. 26901.

William A Peterson Jr

William A. Peterson, Jr.
Water Superintendent

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TABLE A: EXISTING PUMPS

Pumping Station Name	Number of Pumps	Pump Motor Size and Speed (hp/rpm)	Capacity of Each Pump (gpm)
Treatment Plant Influent (river to plant)	4	75/1,760	3,200
		75/1,760	3,200
		75/1,760	3,200
		75/1,760	3,200
Treatment Plant Effluent (plant to system)	5	300/1,775	3,500
		300/1,775	3,500
		250/1,760	3,500
		250/1,760	3,500
		200/1,750	2,600
Lawnridge	4	25/1,750	400
		50/1,750	1,000
		50/1,750	1,000
		100/1,750	2,000
Madrone	3	60/1,750	2,000
		40/1,750	1,200
		30/1,750	900
Champion	3	50/1,750	800
		150/1,750	2,300
		100/1,750	1,600
Starlite	4	15/3,500	60
		30/1,760	450
		60/1,760	1,050
		30/1,760	450
Hefley	4	7.5/3,500	40
		15/3,500	120
		60/3,500	600
		60/3,500	600
North Valley	3	7.5/3,500	70
		30/3,500	500
		30/3,500	500
Hilltop	3	5/3,600	100
		7.5/3,600	150
		40/3,600	750
New Hope	4	30/3,600	350
		30/3,600	350
		30/3,600	350
		150/1,800	2,000
Harbeck Heights	3	5/3,600	90
		5/3,600	90
		50/3,600	1,200
Laurelridge	3	15/3,500	290
		15/3,500	290
		75/3,500	1,000

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TABLE B: EXISTING RESERVOIRS

Reservoir Number	Capacity (mg)	Bottom Elevation (ft)	Overflow Elevation (ft)
3	3.5	1089.5	1108.5
4	0.75	1216	1240
5	3.5	1079.5	1108.5
6	3.5	1211	1240
8	2.0	1341	1370
11	4.5	1080.1	1108.5
13	0.08	1510	1520
15	1.2	1374	1403

TABLE C: GRANTS PASS WATER USE (million gallons)

Month	1997	1998	1999	2000	2001
January	87.91	93.22	99.40	99.66	96.75
February	83.86	84.16	85.77	96.60	89.45
March	94.84	98.10	96.72	98.66	103.69
April	105.02	102.28	107.36	122.31	113.30
May	160.28	115.06	168.25	152.93	209.16
June	179.80	182.79	231.70	235.27	231.08
July	222.84	262.24	273.79	245.08	
August	227.17	261.13	243.19	262.95	
September	139.81	210.97	210.25	192.61	
October	104.40	130.17	160.87	139.96	
November	92.84	95.80	108.96	99.03	
December	92.58	104.47	115.01	95.83	
Total	1591.35	1740.39	1901.27	1840.89	843.43

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JUN 06 2014

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WATERWATCH

PROTECTING NATURAL FLOWS IN OREGON RIVERS

Lisa Brown
WaterWatch of Oregon
213 SW Ash St., STE 208
Portland, OR 97204

June 5, 2014

Patricia McCarty
Oregon Water Resources Dept.
725 Summer St. NE, STE A
Salem, OR 97301

Dear Ms. McCarty:

WaterWatch is withdrawing its December 17, 2013 protest to the proposed final order to extend the City of Grants Pass's permit S-26901.

Given that at the protest deadline it could not be determined from the Proposed Final Order or the file – by WaterWatch or WRD – whether the undeveloped portion of the permit had been measured in compliance with the Oregon Court of Appeals opinion *WaterWatch v. OWRD* (259 Or App 717, 316 P3d 330 (2013), *rev allowed*, 355 Or. 317 (2014)), issued less than a week prior to the protest deadline, and because WRD has not spent appreciable time on this protest, WaterWatch believes it is proper for WRD to refund the protest fee of $700 in this instance. Subsequent to issuance of the proposed final order and the protest deadline, in January, 2014, the City filed additional information with the Department, also shared with WaterWatch at an April meeting, that demonstrates that measurement of the undeveloped portion was in compliance with the opinion.

Please do not hesitate to contact me with any questions.

Sincerely,

Lisa A. Brown

Lisa A. Brown

cc: Rick Glick, attorney for City of Grants Pass

Municipal or Quasi-Municipal

Extension PFO Checklist for Water Use Permits

issued on or prior to November 2, 1998

(OAR 690-315-0010 through OAR 690-315-0060)

Application: S- 34141 Permit: S- 26901 Permit Amendment? No ☐ Yes ☒ T- 8032 ☐ pending ☒ approved

Permit Holder's Name: City of Grants Pass Attn: Terry Haugen, Public Works Director

Permit Holder's Mailing Address: 101 NW A Street, Grants Pass, OR 97526 email jcanady@grantspassoregon.gov

Phone Number: 541-474-6360 contact Jason Canady 541-474-6353

POD Location: Township 36S Range 5W Section 20- NENW; Township 36S Range 6W Section 24 - SENE

Drainage Basin: 15 County: Josephine Watermaster District: 14 Watermaster: Katherine Smith

Date Permit was issued: 9/20/1960 **Priority Date:** 7/19/1960 **Date of PN:** 3/4/2003

Source: The Rogue River

Use: ☒ Municipal ☐ Quasi Municipal ____

"Q": 25.0 cfs limited to when the flow of the Rogue River at its mouth exceeds 735 cfs

Orig "A" Date: 9/20/1964 **Orig "B" Date:** 10/1/1964 **Orig "C" Date:** 10/1/1964

Extension request rec'd: 9/3/2002 updates on 2/26/2003; 12/23/2005 9/19/2013

Last Authorized "B" Date: 10/1/1999

Last Authorized "C" Date: 10/1/1999

Request Number (1, 2, 3…): 8th

Proposed "B" Date: 10/1/~~2014~~ 2040

Proposed C Date: 10/1/~~2014~~ 2040 per 9/19/2013 update

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
☐	☐	none listed on permit
☐	☐	
☐	☐	
☐	☐	
☐	☐	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

☒ ☐ Work was accomplished within the time allowed in the permit or previous extension

☒ ☐ Water right permit holder conformed with the permit or previous extension conditions

☒ ☐ Beneficial use made of the water during the permit or previous extension time limits

- Permit holder has beneficially used 17.2 ☒cfs☐gpm☐af Undeveloped portion 7.8 ☒cfs☐gpm☐af

☒ ☐ Financial investments were made toward developing the beneficial water use.

- Amount Invested to date: $~~24,603,859~~ 186,130,600 9/19/2013 update Estimated Remaining Cost: $~~20,097,000 (from Tables 7-4 thru 7-6 GP 2001 Waster Dist System Master Plan)~~ 50,000,000 4/19/2013 update

GW REVIEW: Y N ____

MITIGATION REVIEW: Y N

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes ☒ No ☐

See 1-27-14 email 16.95

See 1-27-14 email 8.05

~~34,639~~ 34,639

Population ~~26,085~~ (Year) ~~2005~~ 2010 As of Population ☐ Growth ~~2.8~~ 1.96% ☒ Population ~~33,560~~ 61,843 by (Year) ~~2014~~ 2040 Projected Calculated? Yes ☒

Peak Demand ~~31.0~~ cfs (Year) ~~2005~~ 2010 As of ☐ Peak Demand ~~39~~ 37 cfs by (Year) ~~2014~~ ~~2041~~ 2040 Projected Calculated? Yes ☐

For MUNICIPAL permits ONLY.

Yes No

☒ ☐ Is this a Municipal use Permit (If **YES**, proceed. If **NO**, skip to "Good Cause")

☐ ☒ Has full "Q" been beneficially used? (If YES, skip to "Good Cause")

☒ ☐ Is this the first extension issued since 6/29/05? (If NO, skip to "Good Cause")

☐ ☐ If GW permit, does it have PSI? (If NO, skip to "Good Cause")

☐ ☒ Does the permit holder have any existing fish protection agreements with a state or federal agency?

Date sent to ODFW for review 11-9-2011 PN 11-22-2011

Date returned from ODFW _____

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

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 and Div. 86 Water Management and Conservation Plan

☒ Other: Fish Persistence Conditions

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(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."

☐ **COBU Requirement - Ground Water - post July 9, 1987**

"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."

NOTES:

Send copy of Proposed Fish Persistence conditions to WaterWater watch per their 11/22/2011 request pursuant to OAR 690-315-0080 (2) (f)
Lisa Brown / WaterWatch of Oregon
213 SW Ash St, Suite 208 Portland, OR 97204

Done alr 11-15-2013

Extension "PFO" Dates

Mailing / Issuance Date: _____ **Protest Deadline Date:** _____

Reviewer's Name: _____ **Date:** _____

REECE Ann L S-34141

From: Jason Canady <jcanady@grantspassoregon.gov>
Sent: Monday, January 27, 2014 8:31 AM
To: 'Ann Reece'; Terry Haugen
Cc: Brian Ginter (Brian.Ginter@msa-ep.com); 'Michael McKillip' (Michael.McKillip@msa-ep.com)
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732
Attachments: July1999_FlowData.pdf

Ann, per our phone conversation the other day I am attaching documentation that demonstrates that Grants Pass was using water at a rate of ~30 CFS. The attached worksheet clearly shows that the City was not operating its treatment plant for 24 hours per day which requires it to withdraw water at a higher rate.

There are 4 pages to the attachment:
Page 1 is a summary of the month of July listing the Plants Raw Water Flow in MGD, the number of hours each of the plants raw water pumps ran, a "calculated flow in gpm as well as in CFS. The Calculated flow only occasionally reaches 30 CFS due to how pump hours are recorded and rounded and slight variations in flow meter readings.
Page 2 is the "raw" monthly report that we create every day showing plant flow rates as well as backwash flows.
Page 3 is from the same monthly report but shows plant pump run hours
Page 4 is an excerpt from our daily diary for July 28th supporting the assertion that the plant only worked for limited hours during that period.

For the City, this was a very regular occurrence during that period and the plant regularly ran at a raw water flow rate of 20 MGD but due to internal processes such as filter backwashing (which after treatment is returned to the Rogue River) chemical process water, etc it is only able to distribute about 18 MGD.

I am still working on pulling together data to demonstrate the the 1.3 CFS claim for the permit S-47346.

Please let me know what else I can provide you in the next few days to assist in this process.

Thanks!

From: Ann Reece [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, January 21, 2014 1:31 PM
To: Jason Canady
Cc: Patricia McCarty
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hi Jason,

I left you a voice message. One of the three PFO's was protested by WaterWatch (Appl S-34141). Patricia McCarty is our protest coordinator. It is my understanding that she will be sending a copy of the protest to Grants Pass in the next day or so.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Jason Canady [mailto:jcanady@grantspassoregon.gov]
Sent: Tuesday, January 21, 2014 10:11 AM
To: 'Ann Reece'; Michael McKillip
Cc: Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Good morning Ann! I left you a voice mail earlier today but thought I would follow up with a quick email. To see whether or not the City of Grants Pass' water rights extension applications received any protests as of the closing. We would appreciate any information that you could provide.

Thank you very much!
Jm

Water Treatment Plant Superintendent
(Office) 541-450-6119
(Cell) 541-660-6795
http://www.grantspassoregon.gov/water

City of Grants Pass
101 NW A Street
Grants Pass, OR 97526
Where the Rogue River Runs

From: Ann Reece [mailto:ann.l.reece@state.or.us]
Sent: Monday, November 25, 2013 10:29 AM
To: 'Ann Reece'; Michael McKillip

Cc: Jason Canady; Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Mike,

That is great news. The Proposed Final Orders are scheduled to go on out Dec. 3, 2013. There will be a 45 day protest period. If there are no protests, the Final Orders will be issued shortly after the 45 day period.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Michael McKillip [mailto:Michael.McKillip@msa-ep.com]
Sent: Friday, November 22, 2013 10:24 AM
To: 'Ann Reece'
Cc: 'Jason Canady'; Brian Ginter
Subject: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hello Ann,

We received your letter dated November 15, 2013, providing notification of the ODFW proposed fish persistence evaluations. We have reviewed with the City of Grants Pass and would like to proceed with processing the Extensions of Time for water rights applications S-34141, S-41672 & S-64732.

The City of Grants Pass Water Management and Conservation Plan is currently on administrative hold to potentially coordinate timing of the WMCP final order with the Extensions of Time. Please advise us of the anticipated Extensions processing schedule.

Thank you! -Mike

Michael L. McKillip, P.E., Ph.D. ▪ Civil Engineer
Murray, Smith & Associates, Inc. ▪ www.msa-ep.com
121 SW Salmon, Suite 900 ▪ Portland, Oregon 97204-2919
Tel: 503.225.9010 ▪ Fax: 503.225.9022 ▪ mlm@msa-ep.com

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Please consider the environment before printing this e-mail.

DISCLOSURE: Messages to and from this E-mail address may be subject to Oregon Public Records Law.

DISCLOSURE: Messages to and from this E-mail address may be subject to Oregon Public Records Law.

0645 0400-1630 Ken/0630-1630 Jeff/0800-1630 Jason, Jon, Ryan START 0400
1630 STOP 1800.

0615 #2-3 Lawnridge plant!

Faulty Vacuum regulator - out of service. Only have one cylinder hooked up + ON LINE

Listen to

1800 - #2+3 Lawnridge from Manual on to Auto!

√ - pump station = OK!

√ Pump!

Cl2 cylinder delivery Cylinder #
1200 lbs

CITY OF GRANTS PASS
WATER FILTRATION PLANT
MONTHLY OPERATION REPORT

PUMP OPERATIONS --- HOURS

DATE	INFLUENT PUMPS				EFFLUENT PUMPS				
	#1	#2	#3	#4	#1	#2	#3	#4	#5
1	11.25	11.25	11.25	11.25	11.25	1.00	9.00	11.25	8.50
2	9.50	10.25	10.25	10.25		10.25	10.25	9.50	9.50
3	10.75	10.75	9.00	9.00	9.00		10.75	10.75	6.25
4	9.25	9.25	9.25	9.25	9.25		9.25	8.50	7.25
5	10.25	10.25	10.25	10.25		10.25	9.50	10.25	9.00
6	10.25	10.25	10.25	10.25	10.25		10.25	9.50	8.50
7	10.75	10.75	10.75	10.75	10.75	10.75		9.75	8.50
8	9.75	9.75	9.75	8.75	2.00	9.75	6.75	9.00	9.75
9	12.50	12.50	12.50	12.50	12.50		11.25	11.50	12.50
10	11.25	11.25	11.25	11.25	1.00	11.25	11.00	11.25	9.25
11	11.75	11.75	11.75	11.75	11.75		11.75	11.25	7.25
12	11.75	11.75	11.75	11.75		12.00	11.75	11.00	9.50
13	12.00	12.00	12.00	12.00	12.00	12.00		10.50	8.75
14	10.25	10.25	10.25	10.25		9.75	10.25	10.25	9.75
15	10.50	10.50	10.50	10.50	10.50	8.00	10.50	1.00	10.00
16	10.50	10.50	10.50	10.50		10.25	10.50	10.50	10.50
17	11.25	11.25	11.25	11.25	11.25		11.25	11.25	9.25
18	10.25	10.25	10.25	10.25		10.25	10.25	9.25	9.50
19	12.25	12.25	12.25	12.25	12.25		12.00	11.00	9.50
20	11.25	11.25	11.25	11.25		11.25	11.25	10.75	9.75
21	11.75	11.75	11.75	11.75	10.00	1.75	11.50	7.25	10.25
22	12.00	12.00	12.00	12.00	12.00	0.75	12.00	11.25	9.00
23	11.25	11.25	11.25	11.25	5.00	11.25	11.00	7.00	7.75
24	10.50	10.50	10.50	10.50		10.00	10.50	10.50	10.00
25	11.25	11.25	11.25	11.25	11.25		11.25	11.00	7.25
26	11.25	11.25	11.25	11.25		11.25	11.25	10.75	9.00
27	9.75	9.75	9.75	9.75	9.75	9.75	9.25	1.75	4.00
28	14.00	14.00	14.00	14.00	13.25	14.00		14.00	9.00
29	11.75	11.75	11.75	11.75	11.50	11.25		10.75	10.25
30	11.25	11.25	11.25	11.25	11.25	11.00		11.25	7.75
31	11.00	11.00	11.00	11.00	10.50	11.00		10.75	9.25
TOT	343.0	343.8	342.0	341.0	218.3	218.8	264.3	304.3	276.3
MAX	14.0	14.0	14.0	14.0	13.3	14.0	12.0	14.0	12.5
MIN	9.3	9.3	9.0	8.8	1.0	0.8	6.8	1.0	4.0
AVG	11.1	11.1	11.0	11.0	9.9	9.5	10.6	9.8	8.9

MRDate	Influent Flow in MGD		Pump 1 Hours	Pump 2 Hours	Pump 3 Hours	Pump 4 Hours	Flow in GPM	Flow in CFS
Thursday, July 01, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Friday, July 02, 1999	8.06		9.5	10.25	10.25	10.25	13,108	29.21
Saturday, July 03, 1999	7.94		10.75	10.75	9	9	12,309	27.43
Sunday, July 04, 1999	7.41		9.25	9.25	9.25	9.25	13,343	29.73
Monday, July 05, 1999	8.25		10.25	10.25	10.25	10.25	13,422	29.91
Tuesday, July 06, 1999	8.26		10.25	10.25	10.25	10.25	13,434	29.93
Wednesday, July 07, 1999	8.69		10.75	10.75	10.75	10.75	13,467	30.01
Thursday, July 08, 1999	7.65		9.75	9.75	9.75	8.75	13,072	29.13
Friday, July 09, 1999	10.09		12.5	12.5	12.5	12.5	13,454	29.98
Saturday, July 10, 1999	8.79		11.25	11.25	11.25	11.25	13,019	29.01
Sunday, July 11, 1999	9.37		11.75	11.75	11.75	11.75	13,295	29.62
Monday, July 12, 1999	9.45		11.75	11.75	11.75	11.75	13,406	29.87
Tuesday, July 13, 1999	9.55		12	12	12	12	13,259	29.54
Wednesday, July 14, 1999	8.26		10.25	10.25	10.25	10.25	13,426	29.92
Thursday, July 15, 1999	8.69		10.5	10.5	10.5	10.5	13,800	30.75 ← MAX.
Friday, July 16, 1999	8.45		10.5	10.5	10.5	10.5	13,415	29.89
Saturday, July 17, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Sunday, July 18, 1999	8.30		10.25	10.25	10.25	10.25	13,500	30.08
Monday, July 19, 1999	9.87		12.25	12.25	12.25	12.25	13,433	29.93
Tuesday, July 20, 1999	9.05		11.25	11.25	11.25	11.25	13,401	29.86
Wednesday, July 21, 1999	8.86		11.75	11.75	11.75	11.75	12,566	28.00
Thursday, July 22, 1999	9.64		12	12	12	12	13,387	29.83
Friday, July 23, 1999	8.89		11.25	11.25	11.25	11.25	13,176	29.36
Saturday, July 24, 1999	8.34		10.5	10.5	10.5	10.5	13,237	29.49
Sunday, July 25, 1999	8.89		11.25	11.25	11.25	11.25	13,167	29.34
Monday, July 26, 1999	9.01		11.25	11.25	11.25	11.25	13,342	29.73
Tuesday, July 27, 1999	7.78		9.75	9.75	9.75	9.75	13,298	29.63
Wednesday, July 28, 1999	11.13		14	14	14	14	13,250	29.52
Thursday, July 29, 1999	9.31		11.75	11.75	11.75	11.75	13,206	29.42
Friday, July 30, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Saturday, July 31, 1999	8.81		11	11	11	11	13,351	29.75
							Average Flow in GPM	Average Flow in CFS
							13,276	29.58

30.75
- 1.30 under Permit S-47346
- 12.50 under Certificate 15839

16.95 under Permit S-26901

CITY OF GRANTS PASS
WATER FILTRATION PLANT
MONTHLY OPERATION REPORT

DATE	TOTAL FLOW MGD INF.	TOTAL FLOW MGD EFF.	BACK WASH MGD	TEMPERATURE AMBIENT MAX	TEMPERATURE AMBIENT MIN	RAIN 24 HR INCHES	RIVER DATA O800 LEVEL	RIVER DATA O800 CFS	RIVER DATA O800 AVG CFS	RIVER DATA O800 TEMP	RIVER DATA O800 TURB	RIVER DATA O800 COND	WEATHER CONDITIONS CLEAR, CLDY FOG, P.CLDY
1	9.0022	8.1316	0.8706	83	48	0.00	3.67	3927	3960	62	3	S	CLEAR
2	8.0612	7.1205	0.9407	72	50	0.00	3.63	3860	3835	61	3	S	CLDY
3	7.9394	7.1005	0.8389	70	45	0.03	3.63	3860	3835	59	3	S	CLDY
4	7.4055	6.4889	0.9166	76	47	0.00	3.54	3710	3661	58	3	S	PCLDY
5	8.2543	7.2615	0.9928	90	40	0.00	3.45	3562	3513	59	3	S	CLEAR
6	8.2617	7.4048	0.8569	83	47	0.00	3.27	3272	3224	60	3	FS	CLEAR
7	8.6860	7.7018	0.9842	82	48	0.00	3.15	3082	3082	62	3	FS	CLEAR
8	7.6471	6.8619	0.7852	92	42	0.00	3.28	3288	3208	60	2	S	CLEAR
9	10.0907	9.1130	0.9777	99	46	0.00	3.32	3352	3304	60	2	S	CLEAR
10	8.7878	8.0088	0.7790	97	48	0.00	3.34	3384	3344	62	3	S	CLEAR
11	9.3731	8.1936	1.1795	93	53	0.00	3.40	3480	3424	63	3	S	CLEAR
12	9.4514	8.3900	1.0614	97	52	0.00	3.58	3776	3760	63	3	RS	CLEAR
13	9.5462	8.4962	1.0500	93	53	0.00	3.60	3810	3694	63	3	S	CLEAR
14	8.2570	7.3898	0.8672	84	57	0.00	3.49	3627	3529	62	3	S	CLEAR
15	8.6940	7.7238	0.9702	90	45	0.00	3.62	3843	3801	61	3	S	CLEAR
16	8.4515	7.4842	0.9673	86	45	0.00	3.60	3810	3785	61	3	S	CLEAR
17	9.0023	8.1431	0.8592	80	41	0.00	3.61	3826	3826	60	3	S	CLEAR
18	8.3026	7.2030	1.0996	92	41	0.00	3.53	3693	3685	59	3	S	CLEAR
19	9.8733	8.6734	1.1999	95	49	0.00	3.44	3545	3611	60	3	S	PCLDY
20	9.0456	7.8686	1.1770	89	50	0.00	3.40	3480	3440	61	3	FS	PCLDY
21	8.8589	7.8289	1.0300	89	47	0.00	3.15	3082	3233	60	3	S	CLEAR
22	9.6387	8.5308	1.1079	94	50	0.00	3.33	3368	3352	60	3	S	CLEAR
23	8.8940	7.9561	0.9379	93	51	0.02	3.21	3176	3152	59	3	S	CLEAR
24	8.3390	7.2943	1.0447	82	49	0.00	3.16	3098	3121	60	3	FS	CLEAR
25	8.8877	7.7053	1.1824	90	48	0.00	3.07	2958	2935	59	3	FS	CLEAR
26	9.0056	7.6786	1.3270	98	48	0.00	3.08	2973	2973	59	3	S	CLEAR
27	7.7792	6.3826	1.3966	97	53	0.00	3.10	3004	2973	60	3	S	CLEAR
28	11.1302	9.3536	1.7766	97	48	0.00	3.07	2958	2958	59	3	S	CLEAR
29	9.3100	7.8557	1.4543	96	47	0.00	3.15	3082	3027	60	3	S	CLEAR
30	9.0026	8.1036	0.8990	94	46	0.00	3.13	3051	2989	59	3	S	CLEAR
31	8.8115	7.9830	0.8285	95	47	0.00	3.14	3066	2958	59	3	S	CLEAR
TOT	273.7903	241.4315	32.3588	2768.0	1481.0	0.05	104.1						
MAX	11.1302	9.3536	1.7766	99.0	57.0	0.03	3.67	3927	3960	63.0	3		
MIN	7.4055	6.3826	0.7790	70.0	40.0	0.02	3.07	2958	2935	58.0	2		
AVG	8.8319	7.7881	1.0438	89.3	47.8	0.00	3.36	3419	3393	60.3	3		

File #S-34141 / Permit #S-26901

Municipal/Quasi-Municipal Permit Extension Application

❖ **Published on the Department's Public Notice, dated:** 3/4/03

After published on the Public Notice, please.....

❒ Enter/Update the date published on the public notice in the **"PNotice Date"** field in the **"cdatewext.DB"** database

❒ Verify the **"Ext Filed"** field in the **"cdatewext.DB"** database is accurate.

The "filed" date for this extension should be: 9-3-02

❒ Return File to Lisa

Application # S-34141 **/ Permit #** S-26981

Route Slip ... Extension of Time

per Division 315 Rules... (Extensions received on July 1, 2001 or after)

- **WRIG...**
  Money Receipted: $100.00 on 8-14-02
- **Lisa Juul...**
  Extension Completeness: OK
  (If NOT complete, send certified letter requesting add'l information.)

If Extension Appl complete and $100 fee submitted, route to...

- **Jonnine Fuss...**
  Initial 30-day Public Notice: 3-4-03
  Update Extension Database: 3-4-03
  Files back to filing cabinets: back to Susan

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: _____

Within 60 days after the close of the 45-day PFO Protest Period...
(PFO Protest Period ends 45 days from PFO sign date)...

- **Lisa Juul...**
  Issue an Extension FO: _____

Municipal or Quasi-Municipal
EXTENSION REVIEW CHECKLIST for PFO... *per Div. 315 Rules*

Application #: S - 34141 / **Permit #:** S - 26901

Permittee's Name: City of Grants Pass

Permittee's Mailing Address: 101 NW "A" St, Grants Pass, OR 97526

POD Location: Township 36-S Range 5-W Section 20 ¼¼ NE NW

~~Stream~~ Basin: Drainage #15 - Rogue WM # 14 - Bruce Sund County: Josephine

✓ 1. Has the applicant completely filled out the *updated* Extension Application form? **Yes** / No OK ✓ $100.00 - Yes

***If "No"..... has certified request for the new extension form been sent? **Yes** / **No**

__ 2. Shortcomings of Extension Request..... based upon review of updated extension form **Yes** / **No**
***(NOTE:** *Any missing Extension information that is needed before an Extension PFO can be completed???)*

✓ 3. **Date Permit was issued:** 9-20-60 (priority = 7-19-60)

✓ 4. **Source:** Rogue River, trib of Pacific Ocean

✓ 5. **Use:** Municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.

✓ 6. **"Q":** 25.0 cfs

✓ 7. **Original "B" Date:** 10-1-64 **Original "C" Date:** 10-1-64

✓ 8. **Conditions of Permit:** Original "A" Date: 9-20-64
• A, B & C Dates.

✓ 9. **Extension request received:** Original on 9-3-02 & amended on 2-26-03 **Request Number (...1st 2nd, 3rd):** 8th

✓ 10. **Last Authorized "B" Date:** 10-1-99 **Last Authorized "C" Date:** 10-1-99

✓ 11. **Proposed "B" Date:** 10-1-2020 **Proposed C Date:** 10-1-2020

12. **Amount Invested to date:** $24,603,859.00 **Estimated Total Cost:** 44,700,859

(***Estimated Remaining Cost: 20,097,000)

* 2002 population = 23,170 – $ expect (See letter rcvd on 9-3-02) → population growth @ 2.8%

* note: post 2020 $2,144,000.00 system-wide improvements

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?

"A" Date met → Construction began in 1930's.
No time sensitive conditions

14. Work on the water development project completed to date includes:

- construction of 11 pump stations
- construction of ~~the Denton Trail~~ Reservoirs
- construction of water distribution system.
- construction of water treatment plant
- Intake
- Used 16.13 cfs

15. The work remaining to be completed consists of:

- completion of construction
- complete application of water to ben. use.

16. Progress in perfecting the permit is being held up by:

- Time needed to increase demand

17. Has the applicant pursued perfection of the right in good faith and with reasonable diligence? **Yes** / **No**

Last extension period: Addition of 2 pump stations; Denton Trail reservoir, improvements to a pump station & filtration plant installation of distribution system & service connections
Since last extension – construction of 2 pump stations, f/l/tration plant improvements installation of distribution system and service connections
have spent 55% of total required

18. Determination of the market and the present demand for water or power to be supplied:

have used 16.13 cfs of the 25.0 allowed. (See letter dated 9-3-02)
(current) population - 23,170 based on 2.8% gr 2020 pop = 45,000
2002 (See 9-3-02 letter from City)

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 on Extension PFO: Division 8G

Extension "PFO" Dates

Checklist Last Revised: 1 / 31 / 2003

Mailing / Issuance Date: _____ **Reviewer's Name:** [signature]

Protest Deadline Date: _____ **Date:** 4/4/05

Application # S-34141 / **Permit #** S-26901

Route Slip ... Extension of Time

per Division 315 Rules... (Extensions received on July 1, 2001 or after)

- **WRIG...**
  Money Receipted: $100.00 on 8-14-02

Original Ext Appl submitted on 9-3-02

- **Lisa Juul...**
  Extension Completeness: OK - LJ
  (If NOT complete, send certified letter requesting add'l information.)

If Extension Appl complete and $100 fee submitted, route to...

- **Jonnine Fuss...**
  Initial 30-day Public Notice: 9/10/02 JF
  Update Extension Database: 9/10/02 JF
  Files back to filing cabinets: 9/17/02 JF

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: _____

Within 60 days after the close of the 45-day PFO Protest Period...

(PFO Protest Period ends 45 days from PFO sign date)...

- **Lisa Juul...**
  Issue an Extension FO: _____

Application # S-34141 / **Permit #** S-26901

Permit Holder: City of Grants Pass

Use interactive mapping to check: Stream Basin *Bruce Sund* #14

Add this information to the Checklist for PFO

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)**
X	*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? _____
X	* *[OAR 690-315-0070(3)(a)]* The name and mailing address of the water right permit holder(s);
X	* *[OAR 690-315-0070(3)(b)]* The application number and the permit number for which an extension is requested;
X	*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; *NOTE:* ORS 537.230(1) [1997 edition] only **exempts surface water** municipal use permits from the "A" Date requirement. If you are reviewing a ground water 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" does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. "A" date _____ Met? _____ Permit prior to 10/23/99?____ Physical start within 5 years? _____ "B" date "C" date *(Munis issued after 11/2/98 will need to be reviewed under 690-315-0040(4) on Checklist)*
X	*3. [OAR 690-315-0070(3)(d)]* - This is extension request # _____ Evidence of actions taken to develop the right within the original permitted time period OR, during the most recent extension period from _____ to _____
X	*4. [OAR 690-315-0070(3)(e)]* Evidence of compliance with conditions contained in the permit and any previous extension(s) or the reason the condition was not satisfied;
X	*5. [OAR 690-315-0070(3)(f)]* Evidence of the maximum INSTANTANEOUS rate of diversion, if any, made to date; see partial perfection
X	*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; - ~~2000~~ population 2002 pop 23 170 see letter rec'd 9/3/02
X	*7. [OAR 690-315-0070(3)(h)]* A description of financial expenditures made toward completion of the water development; 24,603,859.00
X	*8. [OAR 690-315-0070(3)(i)]* An estimate of the cost to complete the water development; see master plan
X	*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;

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)**
X	*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 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. Current Peak Water Demands - See letter received September 3, 2002 Projected Population - As of 2020 Potential Growth - See master plan - Developed Lands in the UGB Inventory of Water Rights Held - See letter received 9/3/02
X	*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;
X	*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;
X	*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;
X	* *[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.
X	* Signature(s) of the water right permit holder(s).

S:\groups\wr\extensions\Municipal\muni ext_completeness checklist\s34141_City of Grants Pass.wpd

Name of Reviewer: Jonathan Unger **Date:** 12/21/04

Municipal Permit Extensions -
Remaining Undeveloped Portion of Water

Date: January 13, 2006

To: Application # S-34141 (Permit # S-26901)

From: Lisa Jaramillo, Permit Extension of Time Review

Subject: Remaining undeveloped portion of water under municipal use permit

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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 Grants Pass

Application # S-34141 / Permit # S-26901

Permitted quantity of water: 25.0 cfs

Maximum quantity of water developed: 17.2 cfs

- Date this information provided by City: 12-23-2005 (Ext-Add'l Info)

Remaining undeveloped portion: 7.8 cfs

Oregon
John A. Kitzhaber, MD, 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.wrd.state.or.us

November 15, 2013

City of Grants Pass
Attention: Jason Canady
101 NW 'A' Street
Grants Pass, OR 97526

REFERENCE: Pending Application for Extension of Time
Water Right Application S-34141 (Permit S-26901)
Water Right Application S-41672 (Permit S-45827)
Water Right Application S-64732 (Permit S-47346)

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification as per OAR 690-315-0080(2)(f) of fishery resource protection conditions that may be proposed in the proposed final orders of the above referenced permit extensions under OAR 690-315-0050; the conditions are enclosed for your review.

This letter will also act to provide you notice of your opportunity to request the Department place any of the above referenced municipal permit extension applications on administrative hold.

If you should have any questions concerning your extension request you may contact me at (503) 986-0834.

Sincerely,

Ann L. Reece
Municipal Extensions Specialist

Enclosures

cc: Application File S-34141
Application File S-41672
Application File S-64732
Katherine Smith, Watermaster District # 14
Brian Ginter; Murray, Smith & Associates; 121 SW Salmon, Suite 900, Portland OR 97075

Ann Reece

From: Tim S Hardin <tim.s.hardin@state.or.us>
Sent: Thursday, November 14, 2013 1:44 PM
To: REECE Ann L
Subject: RE: RE: Permit S--26901 (Appl S-34141) - City of Grants Pass - Fish Persistence Conditions

Ann:

ODFW concurs that the proposed conditions are consistent with the fish persistence advice provided to OWRD.

Sincerely,

Tim Hardin

Tim Hardin
Instream Flow Specialist
Oregon Department of Fish and Wildlife
4034 Fairview Industrial Drive SE
Salem, OR 97302
ph. 503-947-6093
fax 503-947-6070
email: Tim.S.Hardin@state.or.us

From: Ann Reece [mailto:ann.l.reece@state.or.us]
Sent: Thursday, November 07, 2013 4:18 PM
To: HARDIN Tim S
Cc: REECE Ann L
Subject: RE: RE: Permit S--26901 (Appl S-34141) - City of Grants Pass - Fish Persistence Conditions

Tim Hardin
ODFW
Salem, OR

RE: Appl S-34141 / Permit S-26901

Tim:

Based on ODFW's advice of March 13, 2013, for the above referenced permit, OWRD has drafted the proposed fish persistence conditions for the undeveloped portion of the permit.

Please let me know if ODFW concurs that these proposed conditions are consistent with the fish persistence advice provided to OWRD. The proposed conditions for the City of Grants Pass permit are attached to this e-mail.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

Rogue River –Proposed Fish Persistence Conditions
for Extension of Time Proposed Final Order (PFO)
for Application S-34141 (Permit S-26901)
City of Grants Pass

FINDINGS

1. Summary and Excerpts of Advice from ODFW:

Use of water under the portion of this permit that is undeveloped as of the date of the extension final order should be conditioned to maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit. ODFW has determined that the Rogue River will be affected by water use under this permit. ODFW's advice is based on the best available information and existing data.

ODFW recognizes that long term climatic variations will affect the amount of water in the system. In favorable water years, fish populations tend to increase and in unfavorable water years, fish populations contract. The long term objective for a listed species is to have the population increase to a sustainable level over time and to be able to maintain itself through natural fluctuations in the environment.

The target flows, in Table 1, below, are ODFW's recommended flows measured near Agness, Oregon, for maintaining the persistence of listed fish species in the Rogue River. ODFW advises the Water Resources Department to develop conditions that allow municipalities to meet their water needs while maintaining the persistence of listed fish species.

The severity of the measures to be taken by the water user should reflect the degree to which the recommended streamflows are being missed and the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, and may be adjusted by the ratio of water withdrawn to water being returned directly to the Rogue River through effluent discharges.

Table 1

ODFW'S RECOMMENDED FISH PERSISTENCE TARGET FLOWS IN THE ROGUE RIVER NEAR AGNESS, OREGON	
Month	Cubic Feet per Second
January 1 – April 30	935
May 1 – June 30	3800
July 1 – Sept 10	2000
September 11 – December 31	935

Streamflow Measurement Point

After analysis of flow records and how the USACE stores and releases water from its facilities to meet Rogue River target flows, ODFW has determined measuring flows on the Rogue River at the Agness gage is sufficient to ensure that target flows are met in order to maintain the persistence of listed fish species. Therefore, ODFW advises

the Department to establish the Agness gage as the measurement point for determining whether target flows are being met for this municipal permit extension.

2. Department's Findings Based on Review of ODFW's Advice:

The Department is proposing conditions in this extension of time consistent with ODFW's advice (*See* Item 1 of the "Conditions" section). There is an undeveloped portion of 7.8 cfs of water under Permit S-26901 as per OAR 690-315-0010(6)(g). Authorization to incrementally expand use of water under this permit beyond 17.2 cfs up to the permitted quantity of 25.0 cfs can only be granted through the Department's review and approval of the municipal water user's future WMCPs (OAR 690-086). When ODFW's recommended target flows are not met, the Department's proposed conditions may result in a reduction in the amount of the undeveloped portion of water under Permit S-26901 that can be diverted. The proposed conditions in this extension of time are based on the following findings:

a. The target flows needed to maintain the persistence of fish must be measured in the Rogue River near Agness, Oregon, USGS Gage No.14372300, or its equivalent.

b. When target flows are not met in the Rogue River, use of the undeveloped portion of the permit may need to be reduced in proportion to the degree to which the recommended streamflows are being missed. ODFW's formula for determining the percent shortfall, or missed target flows in the Rogue River is defined as:

$$1 - (Q / Q_T),$$

where Q is the flow at the point of interest, and Q_T is the target flow (from Table 1).

c. ODFW's advice recognized that the use of the undeveloped portion of the permit represents about 0.5 % of the existing stream flow.

d. ODFW's advice recognizes that municipalities may return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that any reduction to use of the undeveloped portion of Permit S-26901 should be adjusted by the monthly estimated percentage of the difference between the total water withdrawals and their return flows. Therefore, consistent with ODFW's advice, when appropriate, the Department proposes to adjust any reduction by a "Consumptive Use Percentage," as generally determined by (1-[total municipal wide returned flows/ total municipal wide diverted flows]).

1. **Conditions to Maintain the Persistence of Listed Fish**

A. Fish Persistence Target Flows

a. Fish persistence target flows in the Rogue River as recommended by ODFW are in Table 2, below; flows are to be measured in the Rogue River near Agness, Oregon (USGS Gage Number 14372300, or its equivalent).

Table 2

FISH PERSISTENCE TARGET FLOWS ON THE ROGUE RIVER MEASURED AT USGS GAGE 14372300 NEAR AGNESS, OREGON	
Month	Cubic Feet per Second
January 1 – April 30	935
May 1 – June 30	3800
July 1 – Sept 10	2000
September 11 – December 31	935

b. Alternate Streamflow Measurement Point
The location of a target flow measurement point as established in these Conditions to Maintain the Persistence of Listed Fish may be revised if the City provides evidence in writing that ODFW has determined that persistence flows may be measured at an alternate streamflow measurement point and provides an adequate description of the location of the alternate streamflow measurement point, and the Water Resources Director concurs in writing.

B. Determining Water Use Reductions – Generally
The maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition is determined in proportion to the amount by which the flows shown in Table 2 are missed based on a seven day rolling average of mean daily flows measured in the Rogue River at the specified gage location. The percent of missed target flows is defined as:

$$(1 - [Q_A / Q_T]) \times 100\%,$$

where Q_A is the actual flow measured at the designated location based on the seven day rolling average, and Q_T is the target flow (from Table 2).

The percent by which the target flow is missed applied to the undeveloped portion of the permit provides the maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition, and is defined as:

$$E - (E \times \% \text{ missed target flow}),$$

where E is the undeveloped portion of the permit as of this extension, being

7.8 cfs.

The maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition may be adjusted by a Consumptive Use Percentage, when applicable, as per Item 1.C., below.

When $Q_A \geq Q_T$, the amount of the undeveloped portion of the permit that can be diverted would not need to be reduced as a result of this fish persistence condition.

C. Consumptive Use Percentages for Utilization in Rogue River Calculations

a. Initial Consumptive Use Percentages
The City of Grants Pass has not identified any Consumptive Use Percentages based on the return of flows to the Rogue River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages
Utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 1.C.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates
Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 1.C.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use

Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 1.C.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Rogue River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Rogue River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 1.C.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 1.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 1.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can

be diverted as a result of this fish persistence condition may continue for a 10 year approval period that ends 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 1.C.d., or 1.C.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

D. Examples

Example 1: Target flow met.

On June 15, the last seven mean daily flows in the Rogue River at the Agness gage were 4100, 4000, 4100, 4000, 3900, 3800 and 3800 cfs. The seven day rolling average (Q_A) is 3957 cfs. The amount of the undeveloped portion of the permit that can be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 3800 cfs target flow (Q_T) for June 15. In this example, $Q_A \geq Q_T$.

Example 2: Target flow missed.

Step 1: If on June 15, the average of the last seven mean daily flows (Q_A) was 2600 cfs, and the target flow (Q_T) is 3800, then the target flow would be missed by 31.6 %.

$$(1 - (2600 / 3800)) \times 100\% = 31.6\%$$

Step 2: Assuming the Consumptive Use Percentage is 62.2%[1] during the month of June and the utilization of this percentage is authorized, and the target flow is missed by 31.6% (from Step 1), then the amount of the undeveloped portion of the permit that could be diverted would be reduced by 19.7%.

$$(62.2\% \times 31.6\%) / 100 = 19.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, then the undeveloped portion of the permit would be reduced only by the % by which the target flow is missed – 31.6% in this example).

[1] Currently, the City of Grants Pass may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The utilization of the Consumptive Use Percentage 62.2% is only for illustrative purposes in this example.

Step 3: Given that the undeveloped portion of this permit as of this extension (E) is 7.8 cfs, and the undeveloped portion of the permit needs to be reduced by 19.7% (from Step 2), or 1.5 cfs, then the maximum amount of the undeveloped portion of Permit S-26901 that could be diverted as a result of this fish persistence condition would be 6.3 cfs. (This maximum amount may be limited as illustrated in Step 4, below.)

$$(7.8 \text{ x } 19.7\%) / 100) = 1.5$$

$$7.8 - 1.5 = 6.3$$

Step 4: The calculated maximum amount of water that could be diverted under the permit due to the fish persistence condition may not exceed the amount of water to which the City is legally entitled to divert. In this example, if the amount of water legally authorized for diversion under this permit is 20.0 cfs (for example, authorization provided through a WMCP), then 20.0 cfs would be the maximum amount of diversion allowed under this permit including the developed portion of the permit, being 17.2 cfs.

(Conversely, if the amount of water legally authorized for diversion under this permit is 24 cfs, then 23.5 cfs (6.3 from Step 3 + the 17.2 developed portion) would be the maximum amount of diversion allowed under this permit.)

Oregon
John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife
Office of the Director
3406 Cherry Ave NE
Salem, OR 97303-4924
503.947.6044
Fax 503.947.6042
www.dfw.state.or.us

March 13, 2013

Mr. Phil Ward, Director
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: ODFW's Division 315 Evaluation of Fish Persistence for Municipal Extension, City of Grants Pass Application # S-34141

Dear ~~Director~~ Phil Ward:

The City of Grants Pass has requested an extension of time to develop the municipal water right referenced above; the undeveloped portion of their permit is 7.8 cfs from the Rogue River. ORS 537.230(2)(c) and 537.630(2)(c) direct the Water Resources Department (WRD) to find that the undeveloped portion of the permit is conditioned to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. WRD is to base their findings on existing data and advice from the Oregon Department of Fish and Wildlife (ODFW). This letter is the advice provided to WRD by ODFW. (The developed portion of the right, 17.2 cfs, is unaffected by this advice).

Summary

- The Water Resources Commission has recognized the need to maintain flows in the Rogue Basin for aquatic life and to minimize pollution, through the adoption of Minimum Perennial Streamflows (MF).
- MF266, for 935 cfs, was established in 1966 for th Rogue at the mouth.
- Construction of Lost Creek Reservoir was completed in 1977. Authorizing documents for the dam stipulated fishery enhancement, through improved temperature and flow, as one of the important benefits of the dam.
- From May through September, flows in the Rogue are affected by releases from Lost Creek Reservoir. Based on years of research, flow targets have been established to protect Chinook salmon and other species. These flows, referenced to Agness, range from 2000 – 3800 cfs (ODFW Rogue Basin Fisheries Evaluations, 1992-2007).

RECEIVED BY OWRD
MAR 19 2013
SALEM, OR

These flows are summarized in Table 1, along with the approximate natural flows, and the ODFW persistence flow.

Table 1. Relevant monthly flow information (cfs) for the Rogue River near Grants Pass.

Month	WRD 50% above Applegate	WRD 50% near Agness	MF-266	Chinook protection at Agness	ODFW targets
Jan	4340	6780	935		935
Feb	4810	9190	935		935
Mar	4180	7520	935		935
Apr	4460	6680	935		935
May	4100	5320	935	3800	3800
Jun	2550	3350	935	3800	3800
Jul	1580	1920	935	2000	2000
Aug	1300	1460	935	2000	2000
Sep1-10	1290	1490	935	2000	2000
Sep11-30	1290	1490	935		935
Oct	1360	1700	935		935
Nov	2030	2660	935		935
Dec	3520	6450	935		935

Evaluation

Listed Species

Spring Chinook – (State Sensitive-Vulnerable)
Fall Chinook – (State Sensitive-Vulnerable)
Coho Salmon – (Federal - Threatened, State Sensitive)
Steelhead – (State Sensitive)
Pacific Lamprey – (Federal – petitioned for listing; State Sensitive-Vulnerable)
Western Brook Lamprey – (Federal – petitioned for listing; State Sensitive-Vulnerable)

Findings and Justification

Fish Flow Analysis: (Water Availability and Fish Flow Needs).

According to WRD's Water Availability Tables for the Rogue above Applegate River, water is available every month; however it is unavailable in all months for the basin as a whole. Consumptive and storage uses of 273 – 2500 cfs, and MF requirements are used in the availability calculations. The largest instream requirement is SY 91530 (scenic) for 3500 cfs.

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Analysis of Risk to Fish Persistence (Stock Status and Flow Restoration)

Winter Steelhead –	Species is meeting all six stock status criteria. Winter steelhead are not presently considered at risk. Spawning and rearing are known to occur downstream of the POD.
Spring Chinook –	Species is potentially at risk, meeting five of the six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Fall Chinook –	Species is not presently at risk, meeting all six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Coho –	Species is not presently at risk, meeting all six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Pacific Lamprey –	Only three of six stock status criteria for this species are being met, populations are declining and there is little information about flow needs. Pacific Lamprey are considered at risk.
Western Brook Lamprey –	Only three of six stock status criteria for this species are being met, populations are declining and there is little information about flow needs. Western Brook Lamprey are considered at risk.

Flow Restoration Priorities

Based on the Oregon Plan Flow Restoration priorities developed by ODFW and OWRD (2001), flow restoration is a priority for the Rogue River above Applegate River. This sub-basin has a "high" need and a "good" opportunity for flow restoration (OWRD: Oregon Plan Website).

Existing Fish Protection Agreement

None noted

ODFW's Advice to WRD on Maintaining the Persistence of Listed Fish Species as the City of Grants Pass Develops the Undeveloped Portions of its Water Right Permit for the Rogue River

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General Considerations

As directed by ORS 537.230 (2)(c) and ORS 537.630 (2)(c), ODFW provides the following advice to WRD to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. ODFW's advice is based on existing data. ODFW recommends the following flows and advises WRD to develop conditions which allow the City of Grants Pass to meet its water needs while maintaining the persistence of listed fish species.

- Research conducted before and after the construction of Lost Creek Dam has documented that adult spring and fall Chinook salmon died at high rates during low water years. For example, mortality was over 70% in the drought years of 1992 and 1994 (ODFW project reports 1992; 2000).

- ODFW recognizes that long term climatic variations will affect the amount of water in the system. In favorable water years, fish populations tend to increase and in unfavorable water years, fish populations contract. The long term objective for a listed species is to have the population increase to a sustainable level over time and be able to maintain itself through natural fluctuations in the environment.

- ODFW also recognizes that municipalities return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal point(s) and effluent discharge(s) are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that curtailment of the water right extension be based on the monthly estimated ratio of the difference between the total water withdrawals and their return flows.

- For evaluating flows, measurements are available at USGS gage #14372300 at Agness.

- Use of the presently-undeveloped portion of the City of Grants Pass's water right from the Rogue would represent about 0.5% of existing streamflow. All of the Grants Pass extensions together would represent about 3% of the 80% exceedance streamflow at Agness.

Specific Advice

The reference point is the gage at Agness. The percentage shortfall of flow (Q) vs. target flow (Q_T) is defined as

$$1 - [Q / Q_T], \qquad \text{Equation 1}$$

where Q is the flow at the gage and Q_T is the target flow at the gage.

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For example, in June, the Target Flow is 3800 cfs (Table 1). If Q is 2600, the percent shortfall is 1-(2600)/3800) = 31.6% (Table 2, bold row). The percent shortfall is then used to reduce the amount that can be withdrawn under the extension. In this case, the 7.8 cfs extension would be reduced by 31.6% (or 2.5 cfs), making the allowed withdrawal 5.3 cfs. Table 2 lists curtailment percentages and allowed withdrawals for various Rogue River flows measured at the Agness gage.

Table 2. Curtailment calculation for the Rogue River at Grants Pass in June (reference point is Agness gage).

Q-Agness	Q-E	% miss	curtail cfs	Extension diversion
4000	3992.2	0.0%	0.0	7.8
3500	3492.2	7.9%	0.6	7.2
3000	2992.2	21.1%	1.6	6.2
2800	2792.2	26.3%	2.1	5.7
2600	**2592.2**	**31.6%**	**2.5**	**5.3**
2400	2392.2	36.8%	2.9	4.9
2200	2192.2	42.1%	3.3	4.5
2000	1992.2	47.4%	3.7	4.1

ODFW Advice: Use of water under the portion of this permit that was undeveloped as of the date of the extension final order should be conditioned to maintain persistence of listed fish species consistent with the ODFW recommended flows in Table 1. If streamflow falls below recommended levels, the City of Grants Pass should have the amount of water that can be diverted through this extension reduced, through conditioning the permit. The severity of the measures taken should reflect the degree to which the recommended flows are being missed, the percentage of water that is withdrawn by the municipality vs. the overall streamflow level and an adjustment of the amount to be curtailed by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

Occurrence of flows below persistence levels

Flows at Agness, based on 1980- 2011 gaging records, were above ODFW persistence flows almost all the time from mid-September through April; curtailment would be extremely rare in these months. Curtailment would be common from May through early September (Table 3). In an 80% exceedance (dry) year, the amount of curtailment would be small, except in June when it would be 33% (the June 80% exceedance flow at Agness is 2530, which is 33% less than the 3800 cfs target).

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Table 3. Monthly flows for fish persistence, and percentage of time those flows were not met, based on 31 years of gage records at Agness.

Month	ODFW targets	% time missed
Jan	935	0
Feb	935	0
Mar	935	0
Apr	935	0
May	3800	30%
Jun	3800	55%
Jul	2000	25%
Aug	2000	20%
Sep1-10	2000	20%
Sep11-30	935	0
Oct	935	0
Nov	935	0
Dec	935	0

This concludes ODFW's advice to WRD on City of Grants Pass's Municipal Extension Application # S-34141. If you have questions about our advice or need further clarification, please contact Rick Kepler, the manager of our Water Quality/Quantity Section, at 503-947-6084.

Sincerely,

Curt Melcher
Deputy Director

Cc: Mayor Mike Murphy, Jason Canady, City of Grants Pass
Brian Ginter, Murray, Smith and Associates
Rick Kepler, Oregon Department of Fish & Wildlife

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S-34141

Oregon

John A Kitzhaber, MD., Governor

Department of Fish and Wildlife
Fish Division
3406 Cherry Avenue NE
Salem, OR 97303
(503) 947-6201
FAX (503) 947-6202
www.dfw.state.or.us/

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JAN 10 2012
WATER RESOURCES DEPT
SALEM, OREGON

January 9, 2012

Mr. Phil Ward
Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Re: Municipal Water Right Extensions for Grants Pass

Dear Director Ward:

With this letter, the Oregon Department of Fish and Wildlife is notifying the Water Resources Department, as allowed under OAR 690-315-0080 (2) (d) that ODFW will require additional time to complete the review and evaluation of Municipal Water Right Extensions S-64732, S-41672, and S-34141 for the City of Grants Pass. The additional time will not exceed 60 days, or a total of 120 days, for review unless the applicant consents to more time.

Sincerely,

Tim Hardin
Instream Flow Specialist

Cc: Mayor Mike Murphy, City of Grants Pass
Brian Ginter, Murray, Smith and Associates

Oregon
John A Kitzhaber, MD., Governor

Department of Fish and Wildlife
Fish Division
3406 Cherry Avenue NE
Salem, OR 97303
(503) 947-6201
FAX (503) 947-6202
www.dfw.state.or.us/

March 16, 2012

Terry Haugen
Public Works Director
City of Grants Pass
101 NW A Street
Grants Pass, OR 97526

Dear Mr. Haugen:

I am actively working on the review and evaluation of Municipal Water Right Extension Applications S-34141, S-41672, and S-64732. The previous time extension ran until March 9; however, we were unable to hold an introductory meeting before March 8. Thus, it was not possible to complete the review and advice within the given time period.

The March 8 meeting resulted in productive discussions, and it now appears that we can complete the reviews within the next 90 days. Thus I am proposing a new completion date of June 9, 2012.

If you consent to this new date, please submit a reply to me by email or surface mail at your early convenience.

Thank you for your attention.

Sincerely,

Tim Hardin
Instream Flow Specialist
Oregon Department of Fish and Wildlife
Tim.S.Hardin@state.or.us

Cc: Brian Ginter, Murray, Smith and Associates Inc.
Ann Reece, Oregon Water Resources Department
Rick Kepler, Oregon Department of Fish and Wildlife

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MAR 1 5 2012
WATER RESOURCES DEPT
SALEM, OREGON

City of
Grants Pass

March 27, 2012

Oregon Department of Fish and Wildlife
Attn: Tim Hardin, Instream Flow Specialist
3406 Cherry Avenue NE
Salem, OR 97303

RE: Municipal Water Right Extension Applications
S-34141, S-41672, and S-64732

Dear Mr. Hardin;

The City of Grants Pass is in receipt of your letter of March 16, 2012 regarding the referenced extensions. The City would request an additional month beyond your proposed date of June 9, 2012 to complete the reviews. If possible, we would ask that a completion date of July 7, 2012 be established.

You can contact me at (541) 471-2650 if you need to discuss the matter.

Respectfully yours,

Terry S. Haugen, P.E.
Public Works Director

Cc: Brian Ginter, Murray, Smith and Associates, Inc.
Jason Canady, Water Treatment Superintendent

Oregon
John A. Kitzhaber, MD, 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.wrd.state.or.us

November 10, 2011

City of Grants Pass
Attention: Terry Haugen, Public Works Director
101 NW 'A' Street
Grants Pass, OR 97526

REFERENCE: Pending Applications for Extensions of Time:

Application S-34141 (Permit S-26901)
Application S-41672 (Permit S-45827)
Application S-64732 (Permit S-47346)

Dear Municipal Water Right Holder:

The purpose of this letter is to provide you with notification as per OAR 690-315-0080(2)(b) that the above referenced municipal permit extension applications were delivered to ODFW on November 9, 2011, for a fish persistence review under OAR 690-315-0080.

I have enclosed a copy of a "checklist" for each of the permit extensions of time so that you have the opportunity to review the information we have on record for your extension request. Please verify that the population projections, growth rate, peak demand projections, and the length of the extension requests are all appropriate. The city has requested the following extension deadlines for completing construction of the water system and applying water to full beneficial use:

10-1-2014 for Permit S- 26901,
10-1-2034 for Permit S- 45827, and
10-1-2047 for Permit S- 47346.

In their extension application, the City presented peak hourly demand rates to determine the length of extensions needed. When reviewing a Claim of Beneficial Use for a municipal use, the Department looks for a demonstration of the diversion to beneficial use for 4 hours within an 8 hour period; i.e. a total of 4 hours of use within an 8 hour period at the rate being claimed. For the City to make full beneficial use of the water under all three of the permits, the City would need to divert to a use at a rate of 75.0 cfs for 4 hours within an 8 hour period, in addition to the 12.5 cfs diverted under Certificate 15839. A copy of a memo discussing determining proof to the satisfaction for municipal use permits is attached for your reference. If the peak hourly demand

projections as presented in the extension applications cannot be sustained for the "4 in 8 hour" demonstration period, then the City should consider if the times requested in the extension application are long enough to make final proof within the deadlines requested by the City. In order to approve an extension of time, the Department must be able to make a finding that the time requested is both reasonable and necessary.

If you should have any questions concerning your extension request you may contact me at (503) 986-0827.

Sincerely,

Ann L. Reece
Water Right Services Division

cc: Application S-34141
Application S-41672
Application S-64732
Katherine Smith, Watermaster District # 14

Memo

Oregon Water Resources Department
Water Rights & Adjudication Division

To: Rick Kepler, ODFW
From: Dwight French, Administrator
Water Rights & Adjudication Division

Date: November 9, 2011

RE: Recommendation on maintaining the persistence of listed fish species
ODFW's review under OAR 690-315-0080

Attached to this cover memo please find the extension of time application for the **City of Grants Pass** water right file **Appl S-34141/ Permit S-26901 (modified by Permit Amendment T-8032).** Also attached is any supplemental information we have received from the extension applicant including a copy of any agreements they might have that may address the issue of "persistence." To assist your review, we have also attached water availability information (80% and 50% tables) for the diversion point. If this is a ground water file, the Department has found that there is the potential for substantial interference with surface water and the information we have developed to support this finding is attached.

The source of water for this permit is: **The Rogue River, tributary to the Pacific Ocean**

The undeveloped portion of this permit is: **7.8 cfs (Permit limits withdrawals when flow < 735 cfs at the mouth of the Rogue R.**

Please send us a Division 315 Fish Persistence Evaluation or check one of the following four statements and sign, date and return this form to Dwight French at OWRD.

___ Use of the undeveloped portion of this permit will maintain the persistence of listed fish species.

___ Use of the undeveloped portion of this permit will not maintain the persistence of listed fish species.

___ Use of (and as a result of) the undeveloped portion of this permit will maintain the persistence of listed fish species only if the attached fishery resource conditions are made a part of the permit for the undeveloped portion of this permit.

___ An agreement exists regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that includes conditions or required actions that maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit.

_____ _____
ODFW Staff Date

Controlling Rules for easy reference
OAR 690-315-0080(2)
(d) ODFW shall provide its written advice to the Department on the extension application within 60 days of the Department's notice in subsection (2)(a) of this rule or notify the Department that additional time, not to exceed 120 days unless the applicant consents to more time, will be needed to complete is evaluation.

(e) ODFW may recommend to the Department fishery resource protection for inclusion in the proposed final order under OAR 690-315-0050 that would provide protection to maintain the persistence of listed fish species if it's written advice to the Department indications that:

(A) Use of the undeveloped portion of the permit would not maintain persistence in the portions of the waterways affected by the water use under the permit; and

(B) As a result of the use of the undeveloped portion of the permit, streamflow would be a limiting factor for the listed fish species.

OWRD Department Checklist for All Required Attachments

Copy of the Extension of Time with any supplemental information ___X_____

Copy of Water Right Permit ____X____

Any agreement between the applicant and a state and federal fish Agency that need to be reviewed by ODFW for potential compliance with OAR 690-315-0080(1)(f)(A). ___X____

80% and 50% Water Availability Printouts ____X____

If G file, documentation regarding the PSI ____n/a____

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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

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 Grants Pass Water Department
NAME OF PERMIT HOLDER *[OAR 690-315-0070(1) and (3)(a)]*

Jason Canady
NAME OF CONTACT

101 NW A Street	Grants Pass	OR	97526
ADDRESS	CITY	STATE	ZIP

541-450-6119
PHONE

jcanady@grantspassoregon.gov
E-MAIL ADDRESS

the permit holder of: Application Number S-34141

Permit Number S-26901
[OAR 690-315-0070(3)(b)]

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, 1999, be extended to October 1, 2040,

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, 1999, be extended to October 1, 2040.

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 9/5/2013 Date

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SEP 19 2013

SALEM, OR

City of
Grants Pass

August 12, 2013

Ms. Ann Reece
Water Rights Services Division
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Dear Ms. Reece,

Enclosed are revised applications for the extension of time for three permits (application numbers S-34141, S-41672, S-64732) held by the City of Grants Pass (City). The applications for an extension of time were originally submitted in August 2002. Several issues have complicated the timely processing of the extension applications. Most recently, the need to coordinate the prospective extension final order with the Oregon Department of Fish & Wildlife's (ODFW) recommendations for the persistence of fish delayed updating the extensions. ODFW has completed its review and recommendations.

In discussions with Water Resources Department (Department) staff, it was recommended that the extension applications be revised and resubmitted to update the forecasted water demands, accommodate the Department's intent to align the extension time period with feasible development periods, and to use the current application format. The recently prepared population and water demand growth projections included with the applications provide for a practical long-term growth rate consistent with Josephine County planning. The City proposes a step-wise water right development, starting with the more senior of the three water rights that will allow the City to proceed with a feasible development schedule consistent with the requested extension time.

Also, the City has submitted a Water Management and Conservation Plan (WMCP) which was reviewed and placed on administrative hold per the Department's suggestion to coordinate the timing of the final orders for these extensions and the WMCP. The 12-month administrative hold will end on March 27, 2014.

It is anticipated that the Department may wish to meet to discuss the applications. If the Department would like to pursue a meeting, or if you any questions, please feel free to contact Terry Haugen at (541) 450-6110.

Respectfully yours,

Terry S. Haugen, P.E.
Public Works Director

Aaron K. Cubic
City Manager

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SALEM, OR

cc: Brian Ginter, Murray, Smith & Associates, Inc.
Jason Canady, City of Grants Pass - Water Treatment Superintendent

101 Northwest "A" Street· Grants Pass, Oregon 97526 • (541) 474-6360 • FAX (541) 479-0812 • www.grantspassoregon.gov

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

Application includes:

- Signature page (page 1 of application) for Application for Extension of Time
- Completed Application for Extension of Time
- All supporting documentation and/or evidence referenced in the Application for Extension of Time, to include:

1. Attachment A: Inventory of Water Rights Held
2. Attachment B: "Long-Term Water Demand Projections," prepared by Murray, Smith & Associates, Inc., March 4, 2013, for City of Grants Pass, Oregon.
3. Attachment C: Division 315 Evaluation of Fish Persistence for Municipal Extensions from the Oregon Department of Fish and Wildlife, dated March 13, 2013.
4. Attachment D: Original Extension of Time application dated August 2, 2002.
5. Attachment E: Permit S26901
6. Attachment F: Permit Amendment T-8032
7. Attachment G: Claim for Beneficial Use, dated August 24, 2001
8. Attachment H: Water rights correspondence related to Department questions, dated December 19, 2005.

Note: Statutory review fee was submitted with original Extension of Time application.

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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.

[OAR 690-315-0070(3)]

1. **Submit the appropriate extension of time fee ($500), as specified under ORS 536.050.** If the extension application fee has already been paid, please provide indicate why and when it was paid. *The statute for this fee may be viewed at www.leg.state.or.us/ors/536.html.*

   This application is completed to update an application originally submitted in 2002, included as Attachment D. An application fee was submitted at that time via correspondence dated August 6, 2002.

[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.

   Does not apply.

[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.**

   Does not apply. Permit was issued July 19, 1960. A copy of the permit is included as Attachment E.

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

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.***

   The City has operated a water treatment plant at the current site since 1931. The plant has undergone several major improvements and capacity expansions since then (1950, 1961, 1983) and continues to provide water to an expanding customer base. Complete records of all work undertaken and financial expenditures made is not available. A list of the documented improvements in included in Chart-I.

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CHART-I

Work before 1960	ALL WORK AND ACTIONS ACCOMPLISHED BEFORE PERMIT WAS ISSUED *List work/actions done before the permitted was issued – e.g. Well drilled.*	COST
1931	Raw water intake and treatment plant constructed († Present value roughly estimated using $1,000,000 per 1 mgd capacity for the 3.5 mg original treatment facility; plus $1,000,000 for the intake facilities)	Approx.† $4,500,000
1950	Treatment plant expansion/improvements to 9 mgd († Present value roughly estimated at $2,000,000 based on a 4.5 mg supply expansion)	Approx.† $9,000,000
Up to 1960	Construction of Reservoirs Nos. 1, 2, 3 and 4 († Present value roughly estimated using $1.50 per gallon project cost for 5.45 mg of storage)	Approx.† $8,175,000
~1953	Construction of Madrone Pump Station serving pressure zone 2 († Present value roughly estimated using $4,000 per hp project cost for a 70 hp station)	Approx.† $280,000
Up to 1960	Installation of an estimated 59 miles of distribution system piping († Present value roughly estimated using $16 per inch/diameter at an average diameter of 8.8 inches)	Approx.† $43,900,000
Work between 1960 & 1964	**ALL WORK AND ACTIONS ACCOMPLISHED DURING PERMITTED TIME PERIOD (after permit was issued and prior to permit "C-date")** *List work/actions done during the permitted time period.*	**COST**
9/20/1960 9/20/1964 10/1/1964 10/1/1964	**Date the permit was signed** **Date the permit specified "Actual Construction Work" shall begin ("A-Date")** **Initial date for completion** **Initial date for beneficial use**	
 3/19/1965 10/1/1969 10/1/1969	**First Extension Dates** Date Signed Completion Date Beneficial Use Date	
 6/12/1995 10/1/1999 10/1/1999	**Last Extension Dates** Date Signed Completion Date Beneficial Use Date	
	Improvements made between 1960 (permit signed) and 1964 (initial completion)	
1961	-Treatment plant expansion/improvements († Present value of minor improvements estimated)	Approx.† $500,000
  10/1/1964 10/1/1969 10/1/1999	**Date the permit specified complete application of water to the use shall be made ("C-Date")** - all permits contain this date. Permit First Extension Last Extension	

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	CHART-I (continued)	
Work between 1964 & 1995	**ALL WORK AND ACTIONS ACCOMPLISHED AFTER PERMIT "C-Date" and PRIOR TO THE MOST RECENT EXTENSION OF TIME REQUEST** *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.* *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.*	**COST**
	Improvements made between 1964 (permit C-date) and 1995 (last extension)	
1983	-Treatment plant expansion/improvements to 20 mgd. († Present value roughly estimated at $2,000,000 based on a 11 mg supply expansion)	Approx.† $22,000,000
	Construction of Reservoirs Nos. 5, 6, 8, 13 and 15 († Present value roughly estimated using $1.50 per gallon project cost for 10.28 mg of storage)	Approx.† $15,420,000
	Installation of an estimated 52.5 miles of distribution system piping († Present value roughly estimated using $16 per inch/diameter at an average diameter of 8.8 inches)	Approx.† $39,000,000
	Construction of several booster pump stations serving pressure zones 2, 3 and 4 as well as the North Valley area. († Present value roughly estimated using $4,000 per hp project cost for 450 hp in total pumping capacity)	Approx.† $1,800,000
Work between 1995 & 1999	**ALL WORK AND ACTIONS ACCOMPLISHED DURING THE MOST RECENT EXTENSION OF TIME GRANTED** *For Other than 1st Application for Extension of Time: List any work/actions done during the time period most recent extension.*	**COST**
10/1/1999	**Date of the last "Extended From Date" for complete application of water (used on the most recently approved extension of time).**	
	Improvements made between October 1994 and October 1999	
	-Addition of 4.5 MG Reservoir & New Hope Pump Station (3,500 gpm capacity)	$4,162,000
	-Addition of Harbeck Heights Pump Station (1,380 gpm capacity)	$30,600
	-Modification of the Hefly Pump Station (capacity increased by 2,200 gpm to 3,200)	$203,900
	-Addition of 19.8 miles of new water mains of varying sizes († Present value roughly estimated using $16 per inch/diameter at an average diameter of 8.8 inches)	Approx.† $14,700,000
	-Addition of 800 new service connections, residential and commercial († Present value roughly estimated using $2,000 per service connection)	Approx.† $1,600,000
	-Filtration Plant Improvements and Modifications	$313,100
10/1/1999	**Last "Extended To" date for complete application of water (resulting from the most recently approved extension of time).**	

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SALEM, OR

	CHART-I (continued)	
Work after 1999	**ALL WORK AND ACTIONS ACCOMPLISHED AFTER THE MOST RECENT EXTENSION OF TIME GRANTED** *List work/actions done after the last authorized date for complete application of water has passed.*	**COST**
	Improvements made between October 1999 and 2002:	
	-Addition of the Laurel Ridge Pump Station (1,450 gpm capacity)	
	-Addition of the Meadow Wood Pump Station (1,400 gpm capacity)	
	-Addition of 21.94 miles of new water mains in varying sizes	
	-Addition of 639 new service connections (commercial and residential)	(combined)
	-Filtration Plant Improvements and Modifications	$975,000
	Improvements completed between 2003 and 2012 include:	
	-Master planning documents, vulnerability assessment and rate study	$561,000
	-Plant process/equipment improvements, riverbank stabilization, intake structure and miscellaneous structural repairs	$6,909,000
	-Installation of approximately 33.87 miles of various size new water mains	$6,483,000
	-Hilltop Pump Station improvements, and other pump station repairs/modifications	$778,000
	-Reservoir improvements	$244,000
	-Miscellaneous system improvements (mobile generator, bulk water station, hydrants)	$106,000
	-Addition of approximately 2,200 new service connection (commercial and residential) († Present value roughly estimated using $2,000 per service connection)	Approx.† $4,400,000
	-Construction of the Panoramic Loop Pump Station (2008)	$42,000
	-Construction of the William's Crossing Pump Station (2006)	$48,000
	Total Cost to Date	**$186,130,600 (approximate)**

[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).**

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.**

A copy of Permit S26901 and Permit Amendment T-8032 are included with the condition numbers below identified by hand (Attachments E and F). Further documentation for meeting conditions 3 and 6 is not available.

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CHART-II

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
1	--	Conditions of the Permit per original issuance, July 19, 1960: (Attachment E) *"The right to use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 c.f.s."* Compliance is on-going.
2	--	Conditions of the Permit Amendment (T-8032, August 20, 1998, No. 1): *"The quantity of water diverted at the new point of diversion, together with that diverted at the old point of diversion, shall not exceed the quantity of water lawfully available at the original point of diversion."* Compliance is on-going.
3	Approx 2003	Conditions of the Permit Amendment (T-8032, August 20, 1998, No. 2): (Attachment F) *"The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department."* A flow meter was installed on the intake pump discharge piping after discussions with Department staff.
4	--	Conditions of the Permit Amendment (T-8032, August 20, 1998, No. 3): (Attachment F) *"Water shall be acquired from the same surface water source as the original point of diversion."* Compliance is on-going.
5	--	Conditions of the Permit Amendment (T-8032, August 20, 1998, No. 4): (Attachment F) *"All other terms and conditions of the permit remain the same."* Compliance is on-going.
6	Approx. 2003	Conditions of the Permit Amendment (T-8032, August 20, 1998, No. 5): (Attachment F) *"The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife."* A fish screen was installed. ODFW approval were obtained.

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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
		N/A

[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 and/or prior extensions of time (if any) made to date.

6-A) For Surface Water Permit Extensions:

Claim for Beneficial Use for 16.13 cfs, dated August 24, 2001 is included as Attachment G. Water rights correspondence pertaining to the Extension of Time application subsequently identified 17.2 cfs in use allocated to Permit S26901.

Maximum instantaneous rate used to date under this permit = 17.2 cfs, *or*
(cubic feet per second)

Maximum instantaneous rate used to date under this permit = _____ gpm, *or*
(gallons per minute)

Acre Feet stored to date under this permit = _____ AF

6-B) For Ground Water Permit Extensions:

Not Applicable – surface water permit extension

CHART-IV (not used)

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 to date 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)
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	-	
								-	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	-	
								-	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	-	
								-	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	-	
								-	
Total instantaneous rate from all wells utilized under this permit									

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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/be filed with OWRD? Yes ☐ No ☐**

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

Well #_____: Actual location: _____

Well #_____: Actual location: _____

N/A

[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.**

Current Population: 34,639 as of Year: 2010

Methodology used to estimate current population served:

City population plus North Valley service area outside of the City. 2010 population determined by US Census data. North Valley service area population estimated to be the product of the number of residential services and the average city-wide population per dwelling unit. (North Valley area is approximately 0.28% of service area population.)

[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.**

Current Peak Water Demand: 31.0 cfs as of Year: 2010

Methodology used to estimate current peak demand:

Peak 4 hour instantaneous diversion rate per claim of beneficial use, 2001, Attachment G, as amended with correspondence dated December 19, 2005, Attachment H.

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

Municipal water rights were established for long-term development.

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

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.

a) Inventory of Water Rights Held

Refer to Attachment A for the inventory of water rights held. Refer to correspondence dated December 19, 2005, Attachment H, for the maximum instantaneous rate diverted to date.

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.

None

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.

None

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.

A decreasing population growth model was used assuming a 2.2 percent annual growth rate that decreases to 1.5 percent annually. The resulting annual average from 2010 to 2040 is 1.96 percent.

Projected Population: 61,843 as of Year: 2040

Methodology used to estimate projected population and population growth rate:

Refer to Attachment B, "Long-Term Water Demand Projections," prepared by Murray, Smith & Associates, Inc., March 4, 2013, for City of Grants Pass, Oregon.

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. 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

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Projected Peak Water Demand: 89.7 cfs as of Year: 2110

Methodology used to estimate peak water demand:

Refer to Attachment B, "Long-Term Water Demand Projections," prepared by Murray, Smith & Associates, Inc., March 4, 2013, for City of Grants Pass, Oregon.

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.

There are no significant jurisdictional constraints that would prevent long-term continued expansion of the UGB as the City grows. The City is not adjacent to any other municipality and while there are some mountainous areas not ideally suited for development, there are no significant topographic restrictions to the City's ultimate expansion.

f) Completion Date

Provide the date by which the water development is anticipated to be completed and water put to full beneficial use.

Completion Date: October 1, 2040

[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.

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.

There are no significant jurisdictional constraints that would prevent long-term continued expansion of the Urban Growth Boundary (UGB) as the City grows. The City is not adjacent to any other municipality and while there are some mountainous areas not ideally suited for development, there are no significant topographic restrictions to the City's ultimate expansion. Projections of future service area population and water demands are included in the memorandum, "Long-Term Water Demand Projections," (March 4, 2013), Attachment B.

Current UGB expansion areas include a land use composition similar to the existing service area characteristics. It is anticipated that long-term expansions will continue to maintain a similar land use blend of residential, commercial and industrial land uses.

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[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.

The City is currently completing a water treatment facilities plan evaluating the long-term supply capacity alternatives. The draft alternative with the lowest net present value is used for estimating the cost to complete water development of the water rights under Permits S26901, S45827 and S47346.

CHART-V

APPROXIMATE DATE RANGE	WORK AND ACTIONS TO BE ACCOMPLISHED	ESTIMATED COST
2020 to 2040	Construction of replacement water treatment plant facilities to include intake, building, process equipment and piping which will allow abandonment of the existing aged plant and expand treatment capacity to 30 mgd (46 cfs)	**$50,000,000**
Year: 2040	**Date intend to apply water to full beneficial use under the terms and conditions of this permit.**	
	Estimated Total Cost to Complete Development	**$50,000,000**

[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 of Grants Pass (City) municipal water system relies upon the Rogue River as its sole source of water. Groundwater supply development in the region is likely not feasible at the capacity required to serve the system. The City also lacks emergency interconnections with neighboring water system providers as there are no major municipal water providers within proximity to the City. The Medford Water Commission (MWC) is the closest major water system provider, approximately 28 miles away. MWC uses the Big Butte Springs watershed as its primary water supply. As the watershed does not have adequate year-round capacity, MWC uses the Rogue River as a secondary supply. Because of the lack of

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long-term supply options, the City had obtained abundant water rights to accommodate long-term growth.

The City began construction of the water supply in 1930 and has experienced steady growth since that time. The City lacks significant topographic or jurisdictional borders which would limit the city's continued expansion. As such, the City has the capacity for continued long term population and water demand growth. Even with the modest growth rates assumed, the population is anticipated to double in 40 years.

In the1960s and again in the 1980s, the City obtained water rights in excess of short-term needs. During this period, appropriations of Rogue River surface waters for municipal use were not limited. After obtaining the City's most junior water right, further appropriations on the Rogue River were restricted. The most junior water right was obtained with the intent to provide water specifically to, among other areas, the North Valley area. Service expansion to the North Valley area was completed in the 1980s.

The City's last Extension of Time was authorized to 1999. A new application for extension was submitted in 2002 under the current rules, but processing the applications was not completed.

Current water treatment plant (WTP) facility planning will include recommendations to either expand the existing treatment plant to 30 mgd (46 cfs) or to construct a new WTP of the same capacity by approximately 2040. Subsequent expansions will be incremental: approximately 45 mgd (70 cfs) by 2065 and approximately 60 mgd (88 cfs) by approximately 2090.

It is anticipated that plant operation will be near 24-hours a day during peak demand periods and shorter operation periods during the low demand season, similar to the current plant operation. During the "shoulder seasons", approximately the spring and the fall, when the water demands are moderate, it is anticipated that the plant will operate at full capacity for 12 to 16 hours a day. Consequently, the maximum instantaneous diversion rate is anticipated to be used once the plant expansion is completed, although the plant's maximum daily capacity may not be used for some period of time subsequently. Thus, the incremental completion schedule for the three permits is anticipated as follows:

Permit	Completion Date
S26901	2040
S45827	2065
S47346	2090

Permit S26901 has the condition for a 735 cfs minimum flow at the mouth of the Rogue River. Furthermore, the State of Oregon holds a senior water right (Certificate 59847, priority date of 1959) for 735 cfs "for the purpose of supporting aquatic life and minimizing pollution." In extreme conditions, such as an extended drought, if the flow at the mouth of the Rogue River were to fall below

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735 cfs, the City's three current permits would be subject to restrictions leaving the City with only 12.5 cfs in available water rights. Prior to the construction of the Lost Creek Reservoir, historic monthly flows at Agness, the closest upstream USGS gauge, were above but near this flow. After the reservoir was put into service in approximately 1976, reservoir operation has increased the minimum flows. In addition, it is anticipated that Permits S26901, S45827 and S47346 will be subject to curtailment of undeveloped capacity to meet the Oregon Department of Fish and Wildlife (ODFW) targets for the persistence of fish.

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

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

--

[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.**

Permits S26901, S45827 and S47346 were issued before 1998, with the first extensions of time for each permit issued prior to 2005. These permits will be subject to the persistence of fish species requirements. The Division 315 Evaluation of Fish Persistence for Municipal Extensions from the Oregon Department of Fish and Wildlife is included as Attachment C.

The City does not have any agreements with federal or state agencies related to maintaining the persistence of listed fish species.

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Attachment A

Municipal Water Rights Inventory for City of Grants Pass, Oregon

Ground Water

None

Surface Water ([2])

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)	Actual Diversion: Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date	Notes
--	--	1888	15839		Rogue River	WTP	Municipal and domestic use; irrigation	12.5	12.5	--	
S34141	S26901	7/19/1960	--	T-8032	Rogue River	WTP	Municipal	25	17.2	10/1/1999	1
S41672	S45827	12/2/1965	--		Rogue River	WTP	Municipal	25	0.0	10/1/1999	
S64732	S47346	1/13/1983	--		Rogue River	WTP	Municipal	25	1.3	10/1/1999	

Notes:

1. Limited to flow at mouth of Rogue River above 735 cfs
2. Application for Limited Water Use License, LL-1400, for agricultural use is held by the City of Grants Pass for water in Lost Creek Reservoir. LL-1400 is not used for the City's municipal water supply.

Pending New Water Right Applications

Application No.	Priority Date	Source	Proposed Use	Proposed Rate

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MSA
Murray, Smith & Associates, Inc.
Engineers/Planners

121 S.W. Salmon, Suite 900 ▪ Portland, Oregon 97204-2919 ▪ PHONE 503.225.9010 ▪ FAX 503.225.9022

TECHNICAL MEMORANDUM

DATE: March 4, 2013

PROJECT: 12-1320.401

TO: Mr. Terry Haugen, Public Works Director
City of Grants Pass, Oregon

FROM: Brian Ginter, P.E.
Michael McKillip, P.E., Ph.D.
Murray, Smith & Associates, Inc.

RE: Long-Term Water Demand Projections

REGISTERED PROFESSIONAL ENGINEER 62947 OREGON JANUARY 11, 2005 BRIAN M. GINTER
RENEWS 6-30-13

REGISTERED PROFESSIONAL ENGINEER 65640 OREGON DECEMBER 28, 2009 MICHAEL L. McKILLIP
RENEWS 12-31-14

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Introduction

The City of Grants Pass (City) authorized Murray, Smith & Associates, Inc (MSA) to prepare updated long-term water demand projections for the City's municipal drinking water supply. The purpose of this memorandum is to document the analysis, methodology and projections of water demand for both 20- and long-range planning horizons. The projections presented in this memorandum were developed considering the City's historical population, historical and present water demand characteristics, as well as other local and regional planning data. The water demand projections will be used as the basis for two water system planning projects: the Water Treatment Plant Facilities Plan Update, and an update of the City's Water Management and Conservation Plan. Long-range forecasting of demands will

also serve as the basis for the City's request for Extensions of Time to put water rights permits to beneficial use. It is anticipated that further refinement of these water demand projections needed to support the analysis of demands by pressure zone and the analysis of saturation development condition for the anticipated 2012 Urban Growth Boundary (UGB) expansion will be completed as part of the upcoming Water Distribution System Master Plan Update. These refined water demand projections are to be prepared under a separate memorandum.

Current and Future Service Area

The City currently provides water service to a population of approximately 34,756 people primarily within the existing City limits. The City limits encompass an area of approximately 7,000 acres, and include most of the area within the existing City UGB. The City began a process to expand the UGB in 2006 and it is anticipating that the completion of the process will occur by the end of 2012. The proposed expansion plan will be reviewed and jointly approved by the City and the Josephine County Board of Commissioners and subsequently approved by the State of Oregon Department of Land Conservation and Development. Based on a current analysis by the City's Community Development Department, it is anticipated that approximately 1,200 acres will be added to the UGB providing a 20-year land supply.

The City also provides water service to approximately 105 residential and commercial acres in the North Valley area located north of the City limits along Interstate Highway 5, and southeast of the unincorporated community of Merlin. Long-term future growth in this area is anticipated to be served by the City.

There are some adjacent developed areas outside the City limits that are not served by the City. These areas include the Rogue Community College to the west and unincorporated County areas to the southeast of the City. There is a potential for these areas to be served by the City in the future.

There are no significant jurisdictional constraints that would prevent long-term continued expansion of the UGB as the City grows. The City is not adjacent to any other municipality and while there are some mountainous areas not ideally suited for development, there are no significant topographic restrictions to the City's ultimate expansion.

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Historical and Future Population Estimates

General

Estimates of the current and anticipated population within the water service area were developed through a review of existing City of Grants Pass planning data, previous water supply planning efforts, census data and Josephine County population forecasts. For planning purposes, the existing population within the City limits and the population of the water service area are assumed to be equal.

Historical and Existing Population

Historical City population data was obtained from the Portland State University's Population Research Center certified population estimates. The Population Research Center produces the annual population estimates for the State of Oregon and its counties and cities. These estimates, made July 1 of each year, are widely used for planning purposes. Table 1 summarizes historical and current populations within the City and for all of Josephine County. Figure 1 graphically illustrates this historical population data. From the year 2000 through 2010, the population in the City grew at an average annual rate of 4.0 percent. For the same period, Josephine County grew at a lower annual average rate of 0.85 percent. The City grew from 23,170 to 34,533 people and Josephine County (including the City) grew from 76,050 to 82,775 people. As the entire County added fewer people than the City added during the 10-year period, the overall demographic trend within Josephine County indicates a net shift in population into the City from the rural areas of Josephine County.

The City provided water to 36 residential properties in the North Valley area in 2011. At the City's residential density of 2.68 people per dwelling unit, the North Valley area is estimated to contribute a population of 96 to the City's service area.

Table 1
Historical City and County Population Summary

Year	City of Grants Pass		Josephine County		Percent of County Population
	Population	Percent Annual Growth	Population	Percent Annual Growth	
2000	23,170		76,050		30%
2001	23,670	2.2%	76,850	1.1%	31%
2002	23,870	0.8%	77,650	1.0%	31%
2003	24,470	2.5%	78,350	0.9%	31%
2004	24,790	1.3%	78,600	0.3%	32%
2005	26,085	5.2%	79,645	1.3%	33%
2006	30,930	19%	81,125	1.9%	38%
2007	31,740	2.6%	82,390	1.6%	39%
2008	32,260	1.6%	83,290	1.1%	39%
2009	33,225	3.0%	83,600	0.4%	40%
2010[1]	34,533	3.9%	82,775	-1.0%	42%
2011	34,660	0.4%	82,820	0.1%	42%

Note: 1. 2010 population estimates are adjusted to reflect 2010 Census data.

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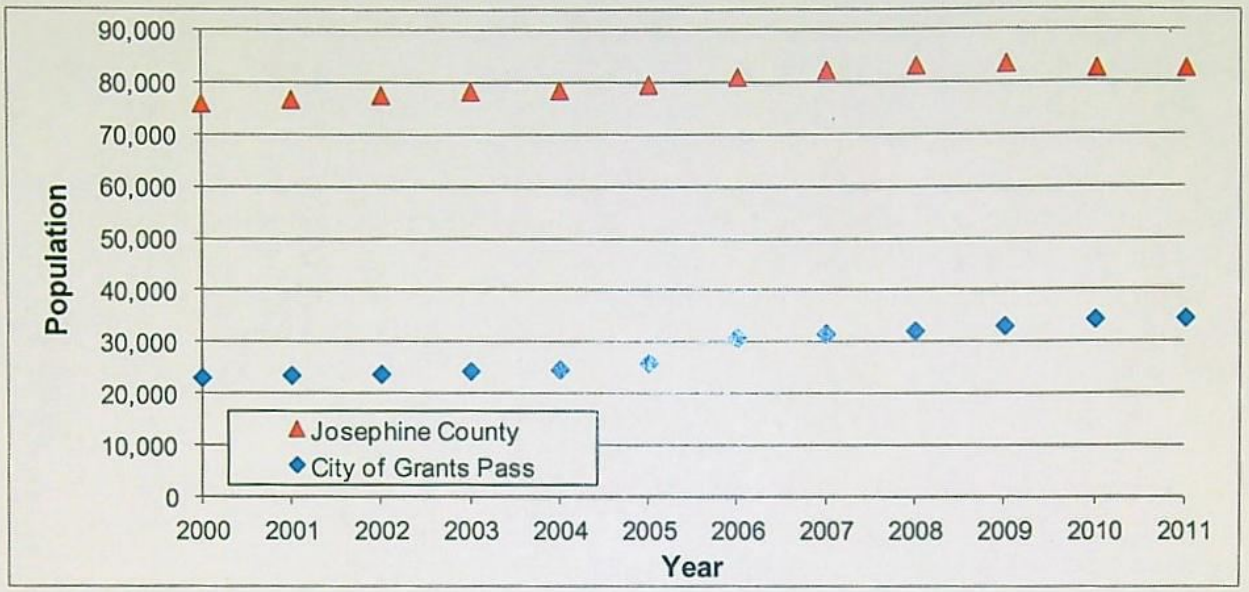
Figure 1
Historical City and County Population Summary



Population Forecast

Planning studies have been prepared that forecast long-term population growth rates for Josephine County and the City. The Office of Economic Analysis reported a forecasted annual average growth rate for Josephine County from 2010 to 2040 of 1.1 percent. The relative historical growth rates of the City and Josephine County suggest that the 1.1 percent rate projected for the whole county is much lower than the recent and historical population growth rate of the City. The City's current Comprehensive Plan contains forecasted annual average population growth rates of 2.2 percent for the period 2007 through 2027 and 1.51 percent for the period 2007 through 2057. These rates are below the 2000 through 2010 actual growth rate of 4.0 percent.

Given the historically high recent growth rates of the City, a 2.2 percent annual growth rate is assumed through 2014. Thereafter, the annual growth rate is assumed to decline at a rate of 0.1 percent every five (5) years until it reaches an annual rate of 1.5 percent in 40 years. This results in a 20-year average annual growth rate of approximately 2.05 percent and a 50-year average annual growth rate of approximately 1.78 percent. The population projections using this approach are generally consistent with those in the City's Comprehensive Plan which projects a population of 54,540 in 2029 and 79,275 in 2057. The population forecast through a 100-year planning horizon to 2110 is reported in Table 2 and illustrated in Figure 2.

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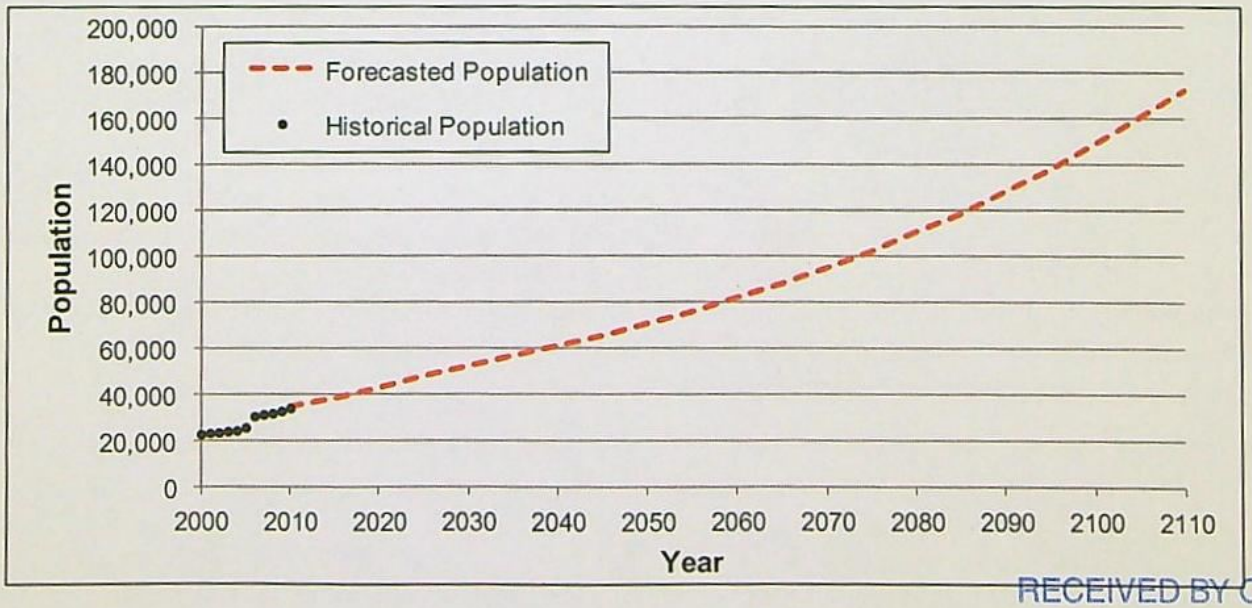
Table 2
Population Forecast Summary

Year	Service Area Population	Average Annual Growth Rate
2010 (Census Estimate plus North Valley Estimate)	34,649	2.2%
2015	38,632	2.1%
2020	42,862	2.0%
2025	47,323	1.9%
2030	51,993	1.8%
2035	56,844	1.7%
2040	61,843	1.6%
2050	72,125	1.5%
2060	83,704	1.5%
2070	97,142	1.5%
2080	112,738	1.5%
2090	130,837	1.5%
2100	151,841	1.5%
2110	176,218	1.5%

Figure 2
Historical and Forecasted City Population



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The population forecasts presented in this memorandum are based on a review of historical population trends within the City and Josephine County and an extrapolation of population projections developed by the City for the purposes of land use and economic forecasting. The long-range forecasts presented do not consider potential future external influences on growth rates such as limitations on developable land, changing economic conditions, large shifts in demographic characteristics, and other factors. The projections provide an appropriate basis for long-term water system planning. It is expected that the accuracy of this forecast will decline significantly beyond a 20-year planning horizon as external influences not considered impact growth patterns.

Water Demand

General

Existing and future water demand estimates were developed following a review of historical water demand data provided by the City and population forecasts presented above. The term "water demand" refers to all the water requirements of the system including domestic, commercial, municipal, institutional as well as unaccounted-for water. A given water demand at any one time includes the sum of production from the City's Water Filtration Plant (WFP) plus the outflow from storage reservoirs. Demands are discussed in terms of gallons per unit time such as 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). Terminology used in this section to describe water usage characteristics are defined below:

Average Daily Demand (ADD): The Average Daily Demand is the total volume of water produced in a given year divided by 365 days. ADD is often used to forecast water volumes on an annual basis for estimating power costs, water revenue, and other considerations.

Peak Season Demand (PSD): Peak Season Demand is the average daily demand for the 122 days of the peak water use season; defined as June 1st to September 30th. The PSD reflects summer season outdoor water use patterns.

Maximum Day Demand (MDD): The Maximum Day Demand is the largest volume of water used, through production and changes in reservoir storage, in any single day of the calendar year. MDD is typically used to size the capacity of supply sources, treatment facilities, transmission piping, pumping facilities and finished water storage facilities. MDD usually occurs in the July to August months in the Pacific Northwest and is associated with increased outdoor water use on the hottest days of the year.

Peaking Factor: The ratio of the MDD to the ADD is commonly described as the peaking factor.

Figure 3 graphically presents both daily demand records and average monthly demands based on 5 years of production records. This figure illustrates the daily and seasonal variations in water demand for the water system.

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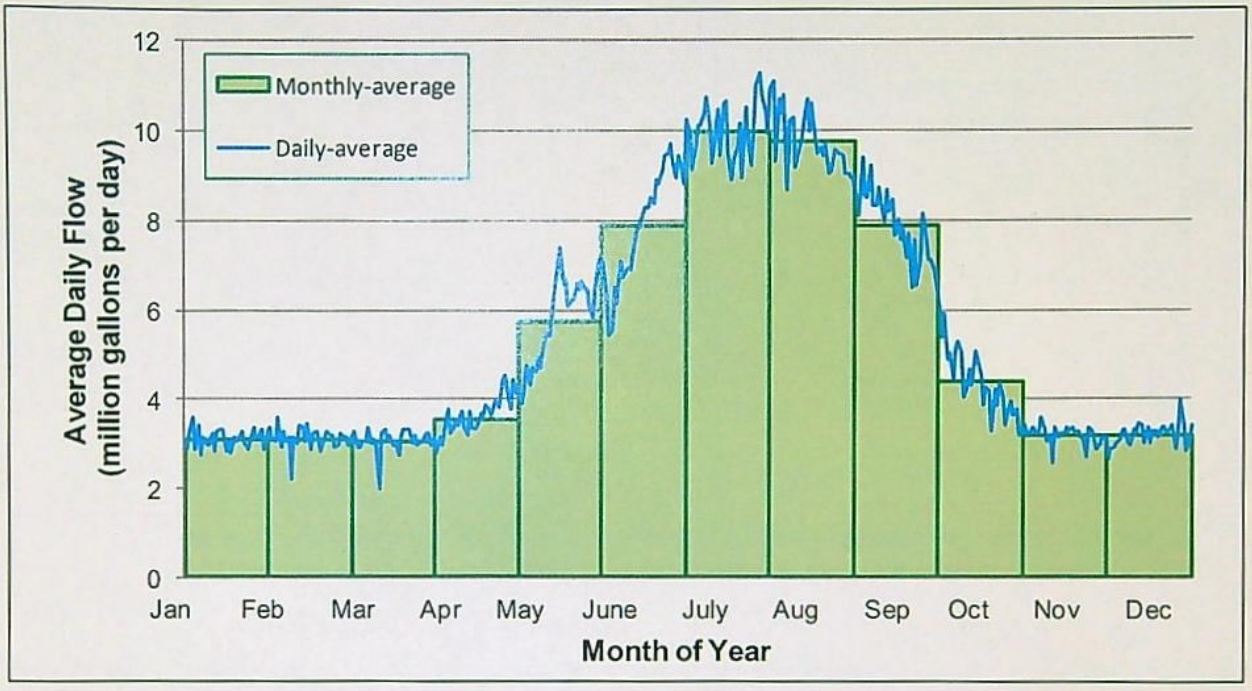
Figure 3
Historical Average Demand



Historical Water Demand

The City records daily production at the WFP which are used to generate historical water demand statistics. Based on the historical average population presented above and water usage patterns, the water service area's average daily demand over the last five years has been between 5.0 and 5.8 mgd with an average day per capita consumption ranging between 145 gpcd and 184 gpcd. This is a typical range of average per capita daily demands for the region.

The historical MDD has been between 9.3 and 14.2 mgd with a maximum day per capita consumption ranging between 266 gpcd and 447 gpcd. The large range in maximum demand is due to the large number of variables that can influence summer season demand which include air temperature, precipitation, weekday versus weekend weather patterns, and other factors. Maximum day demands typically range from 250 to 450 gpcd using similar aggregate forecasting methods for similar sized communities in western Oregon and Washington. Table 3 summarizes historical water demand data for the years 2000 through 2011 by total production, per capita rates and peaking factor. The water demand characteristics for 2011 are anomalous in that the MDD is much smaller than the previous years. Figures 4 and 5 illustrate the historical water demand characteristic as both daily and per capita demands.

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Figure 4
Historical Daily Water Demand Characteristics

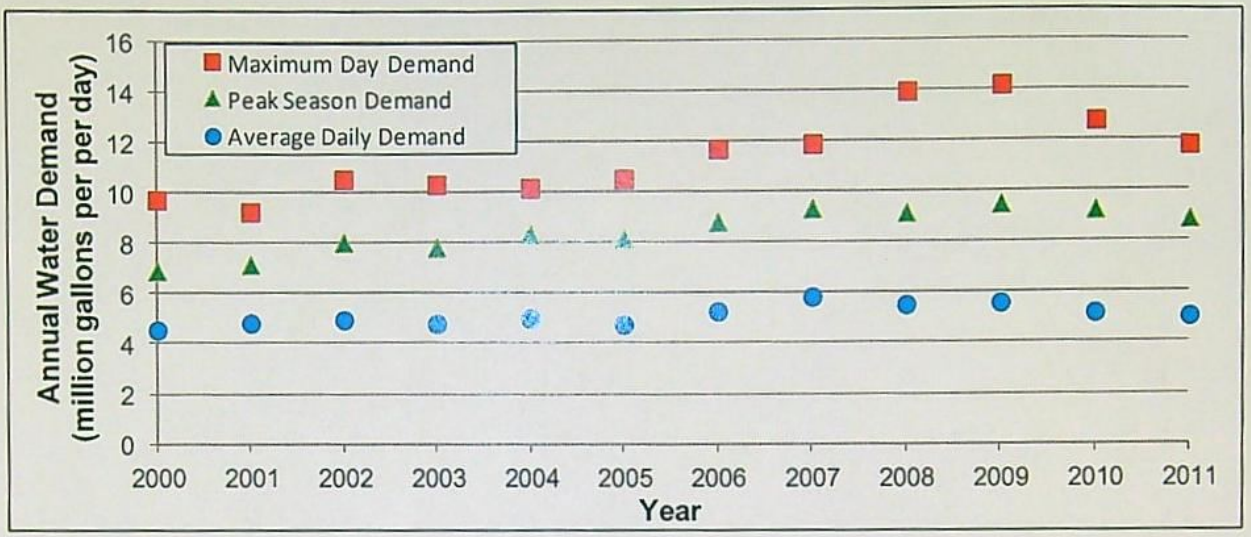

Figure 5
Historical Per Capita Water Demand Characteristics

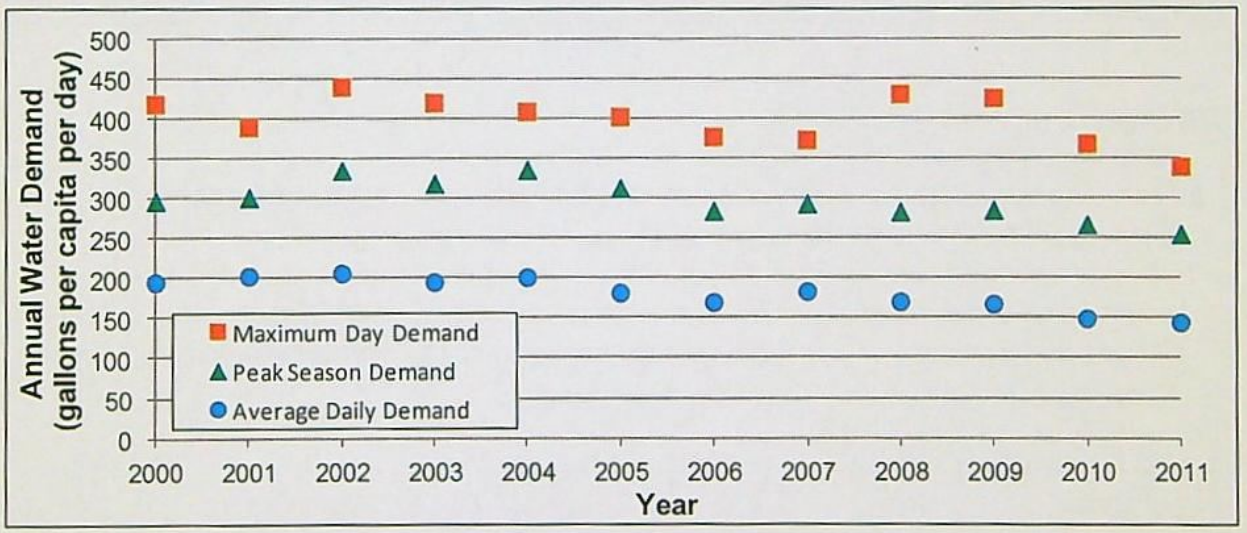

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Table 3
Historical Water Demand Summary

Year	Water Service Area Population	Water Demand (million gallons per day)			Per Capita Water Demand (gallons per capita per day)			Peaking Factor	
		ADD	PSD	MDD	ADD	PSD	MDD	PSD	MDD
2000	23,249	4.5	6.9	9.7	195	296	419	1.52	2.14
2001	23,750	4.8	7.1	9.2	203	300	389	1.48	1.92
2002	23,951	4.9	7.9	10.5	206	328	440	1.59	2.13
2003	24,552	4.8	7.9	10.3	195	322	420	1.65	2.15
2004	24,873	5.0	8.1	10.2	201	327	409	1.63	2.03
2005	26,169	4.8	7.6	10.5	182	291	402	1.60	2.22
2006	31,015	5.3	8.4	11.7	170	272	377	1.60	2.22
2007	31,826	5.8	9.4	11.9	183	296	373	1.61	2.04
2008	32,346	5.5	9.0	13.9	170	277	431	1.63	2.53
2009	33,318	5.6	9.1	14.2	167	273	425	1.63	2.54
2010	34,632	5.2	8.6	12.8	149	248	368	1.66	2.47
2011	34,756	5.0	8.3	11.8	144	240	339	1.66	2.35
5-year average ('06-'10)		*5.5*	*8.9*	*12.9*	*168*	*273*	*395*	*1.63*	*2.36*
10-year average ('00-'10)		*5.1*	*8.2*	*11.4*	*184*	*294*	*405*	*1.60*	*2.22*

Notes:
1. Abbreviations: Average Daily Demand (ADD); Peak Season Demand (PSD); Maximum Daily Demand (MDD).
2. The water demand characteristics for 2011 are anomalous, and are not used to calculate historical averages.
3. Water service area population includes the North Valley area component.

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Projected Water Demands

Projections of future water demands are determined based upon present and historical per capita water use characteristics and forecasted future population.

Water demand forecasts are used to ensure adequate supply and transmission capacity under a maximum day demand scenario. Major water infrastructure projects often take 5 to 10 years to complete as the City proceeds from identification of a deficiency through project planning, funding, design, bidding, award and construction. Based on a review of historical and current water use characteristics within the City's water service area, observation of regional and national water use trends, and anticipated future advances in water saving technology, the following water demand projection criteria are used:

20-Year Planning Horizon (~2035)

- Per capita average day demand assumed to be at the average rate over the 5 years from 2006 through 2010, 170 gpcd.
- Per capita maximum day demand assumed to be approximately 400 gpcd based on the average peaking factor of 2.35 over the 2006 through 2010 period.

Beyond the 20-Year Planning Horizon

- Beyond the 20-year planning period, it is more probable that water demand growth will not increase at the same rate as assumed for the near term planning purposes.
- The per capita water demand rate was assumed to decrease from 170 gpcd by 5 gpcd after each 5-year block such that a demand of 140 gpcd is achieved by 2065.

Table 4 presents a summary of population and water demand forecasts in five year increments through 2040 and in 10-year increments to the year 2110. The purpose of the forecasts presented in this memorandum is to provide a basis for planning of water supply and treatment needs. It is recommended that these projections be updated every 5 to 10 years to reflect current conditions and to support updates of capital infrastructure prioritization, funding and implementation.

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Table 4
Population and Water Demand Forecasts Summary

Year	Service Area Population	AAGR (percent)	Per Capita Demand (gpcd)	ADD (mgd)	MDD (mgd)
2015	38,632	2.1%	170	6.6	15.5
2020	42,862	2.0%	170	7.3	17.1
2025	47,323	1.9%	170	8.0	18.9
2030	51,993	1.8%	170	8.8	20.8
2035	56,844	1.7%	170	9.7	22.7
2040	61,843	1.6%	165	10.2	24.0
2045	66,951	1.5%	160	10.7	25.2
2050	72,125	1.5%	155	11.2	26.3
2055	77,700	1.5%	150	11.7	27.4
2060	83,704	1.5%	145	12.1	28.5
2065	90,173	1.5%	140	12.6	29.7
2070	97,142	1.5%	140	13.6	32.0
2075	104,650	1.5%	140	14.7	34.4
2080	112,738	1.5%	140	15.8	37.1
2085	121,451	1.5%	140	17.0	40.0
2090	130,837	1.5%	140	18.3	43.0
2095	140,948	1.5%	140	19.7	46.4
2100	151,841	1.5%	140	21.3	50.0
2105	163,576	1.5%	140	22.9	53.8
2110	176,218	1.5%	140	24.7	58.0

Note: 1. Abbreviations: Average Annual Population Growth Rate (AAGR); Average Daily Demand (ADD); Maximum Daily Demand (MDD); million gallons per day (mgd); gallons per capita per day (gpcd)

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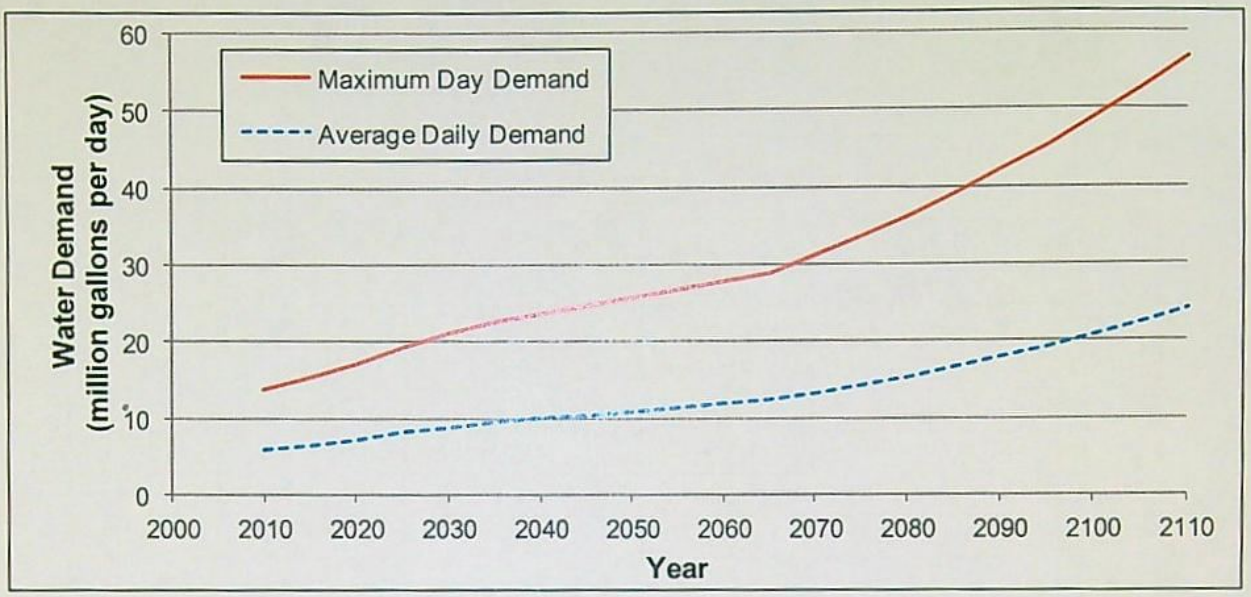
Figure 6
Projected Water Demand



Summary

This memorandum presents historical and forecasted population and water demands. The current service area population is approximately 34,756 and the planning level ADD of 5.9 mgd and MDD of 13.9 mgd. By 2030, the population is forecasted to be approximately 51,993 and the projected ADD is 8.8 and the MDD is 20.8 mgd. The City of Grants Pass is anticipated to continue to expand and grow well beyond the UGB expansion currently being adopted. By 2110, the population is forecasted to be approximately 176,218 and the projected ADD is 25 and the MDD is 58 mgd. These projections are generally consistent with the Josephine County and City's current Comprehensive Plan projections. It is recommended that these projections will be updated every five (5) to 10 years to reflect current conditions and to support updates of capital infrastructure prioritization, funding and implementation.

BMG:mlm

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Oregon
John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife
Office of the Director
3406 Cherry Ave NE
Salem, OR 97303-4924
503.947.6044
Fax 503.947.6042
www.dfw.state.or.us

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MURRAY, SMITH & ASSOC., INC

March 13, 2013

Mr. Phil Ward, Director
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: ODFW's Division 315 Evaluation of Fish Persistence for Municipal Extension, City of Grants Pass Application # S-34141

Dear ~~Director~~ Phil Ward:

The City of Grants Pass has requested an extension of time to develop the municipal water right referenced above; the undeveloped portion of their permit is 7.8 cfs from the Rogue River. ORS 537.230(2)(c) and 537.630(2)(c) direct the Water Resources Department (WRD) to find that the undeveloped portion of the permit is conditioned to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. WRD is to base their findings on existing data and advice from the Oregon Department of Fish and Wildlife (ODFW). This letter is the advice provided to WRD by ODFW. (The developed portion of the right, 17.2 cfs, is unaffected by this advice).

Summary

- The Water Resources Commission has recognized the need to maintain flows in the Rogue Basin for aquatic life and to minimize pollution, through the adoption of Minimum Perennial Streamflows (MF).
- MF266, for 935 cfs, was established in 1966 for th Rogue at the mouth.
- Construction of Lost Creek Reservoir was completed in 1977. Authorizing documents for the dam stipulated fishery enhancement, through improved temperature and flow, as one of the important benefits of the dam.
- From May through September, flows in the Rogue are affected by releases from Lost Creek Reservoir. Based on years of research, flow targets have been established to protect Chinook salmon and other species. These flows, referenced to Agness, range from 2000 – 3800 cfs (ODFW Rogue Basin Fisheries Evaluations, 1992-2007).

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These flows are summarized in Table 1, along with the approximate natural flows, and the ODFW persistence flow.

Table 1. Relevant monthly flow information (cfs) for the Rogue River near Grants Pass.

Month	WRD 50% above Applegate	WRD 50% near Agness	MF-266	Chinook protection at Agness	ODFW targets
Jan	4340	6780	935		935
Feb	4810	9190	935		935
Mar	4180	7520	935		935
Apr	4460	6680	935		935
May	4100	5320	935	3800	3800
Jun	2550	3350	935	3800	3800
Jul	1580	1920	935	2000	2000
Aug	1300	1460	935	2000	2000
Sep1-10	1290	1490	935	2000	2000
Sep11-30	1290	1490	935		935
Oct	1360	1700	935		935
Nov	2030	2660	935		935
Dec	3520	6450	935		935

Evaluation

Listed Species

Spring Chinook – (State Sensitive-Vulnerable)
Fall Chinook – (State Sensitive-Vulnerable)
Coho Salmon – (Federal - Threatened, State Sensitive)
Steelhead – (State Sensitive)
Pacific Lamprey – (Federal – petitioned for listing; State Sensitive-Vulnerable)
Western Brook Lamprey – (Federal – petitioned for listing; State Sensitive-Vulnerable)

Findings and Justification

Fish Flow Analysis: (Water Availability and Fish Flow Needs).

According to WRD's Water Availability Tables for the Rogue above Applegate River, water is available every month; however it is unavailable in all months for the basin as a whole. Consumptive and storage uses of 273 – 2500 cfs, and MF requirements are used in the availability calculations. The largest instream requirement is SY 91530 (scenic) for 3500 cfs.

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Analysis of Risk to Fish Persistence (Stock Status and Flow Restoration)

Winter Steelhead –	Species is meeting all six stock status criteria. Winter steelhead are not presently considered at risk. Spawning and rearing are known to occur downstream of the POD.
Spring Chinook –	Species is potentially at risk, meeting five of the six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Fall Chinook –	Species is not presently at risk, meeting all six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Coho –	Species is not presently at risk, meeting all six stock status criteria. Spawning and rearing are known to occur downstream of the POD.
Pacific Lamprey –	Only three of six stock status criteria for this species are being met, populations are declining and there is little information about flow needs. Pacific Lamprey are considered at risk.
Western Brook Lamprey –	Only three of six stock status criteria for this species are being met, populations are declining and there is little information about flow needs. Western Brook Lamprey are considered at risk.

Flow Restoration Priorities

Based on the Oregon Plan Flow Restoration priorities developed by ODFW and OWRD (2001), flow restoration is a priority for the Rogue River above Applegate River. This sub-basin has a "high" need and a "good" opportunity for flow restoration (OWRD: Oregon Plan Website).

Existing Fish Protection Agreement

None noted

ODFW's Advice to WRD on Maintaining the Persistence of Listed Fish Species as the City of Grants Pass Develops the Undeveloped Portions of its Water Right Permit for the Rogue River

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General Considerations

As directed by ORS 537.230 (2)(c) and ORS 537.630 (2)(c), ODFW provides the following advice to WRD to maintain, in the portions of waterways affected by water use under the permit, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. ODFW's advice is based on existing data. ODFW recommends the following flows and advises WRD to develop conditions which allow the City of Grants Pass to meet its water needs while maintaining the persistence of listed fish species.

- Research conducted before and after the construction of Lost Creek Dam has documented that adult spring and fall Chinook salmon died at high rates during low water years. For example, mortality was over 70% in the drought years of 1992 and 1994 (ODFW project reports 1992; 2000).

- ODFW recognizes that long term climatic variations will affect the amount of water in the system. In favorable water years, fish populations tend to increase and in unfavorable water years, fish populations contract. The long term objective for a listed species is to have the population increase to a sustainable level over time and be able to maintain itself through natural fluctuations in the environment.

- ODFW also recognizes that municipalities return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal point(s) and effluent discharge(s) are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that curtailment of the water right extension be based on the monthly estimated ratio of the difference between the total water withdrawals and their return flows.

- For evaluating flows, measurements are available at USGS gage #14372300 at Agness.

- Use of the presently-undeveloped portion of the City of Grants Pass's water right from the Rogue would represent about 0.5% of existing streamflow. All of the Grants Pass extensions together would represent about 3% of the 80% exceedance streamflow at Agness.

Specific Advice

The reference point is the gage at Agness. The percentage shortfall of flow (Q) vs. target flow (Q_T) is defined as

$$1 - [Q / Q_T], \qquad \text{Equation 1}$$

where Q is the flow at the gage and Q_T is the target flow at the gage.

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For example, in June, the Target Flow is 3800 cfs (Table 1). If Q is 2600, the percent shortfall is 1-(2600)/3800) = 31.6% (Table 2, bold row). The percent shortfall is then used to reduce the amount that can be withdrawn under the extension. In this case, the 7.8 cfs extension would be reduced by 31.6% (or 2.5 cfs), making the allowed withdrawal 5.3 cfs. Table 2 lists curtailment percentages and allowed withdrawals for various Rogue River flows measured at the Agness gage.

Table 2. Curtailment calculation for the Rogue River at Grants Pass in June (reference point is Agness gage).

Q-Agness	Q-E	% miss	curtail cfs	Extension diversion
4000	3992.2	0.0%	0.0	7.8
3500	3492.2	7.9%	0.6	7.2
3000	2992.2	21.1%	1.6	6.2
2800	2792.2	26.3%	2.1	5.7
2600	**2592.2**	**31.6%**	**2.5**	**5.3**
2400	2392.2	36.8%	2.9	4.9
2200	2192.2	42.1%	3.3	4.5
2000	1992.2	47.4%	3.7	4.1

ODFW Advice: Use of water under the portion of this permit that was undeveloped as of the date of the extension final order should be conditioned to maintain persistence of listed fish species consistent with the ODFW recommended flows in Table 1. If streamflow falls below recommended levels, the City of Grants Pass should have the amount of water that can be diverted through this extension reduced, through conditioning the permit. The severity of the measures taken should reflect the degree to which the recommended flows are being missed, the percentage of water that is withdrawn by the municipality vs. the overall streamflow level and an adjustment of the amount to be curtailed by the ratio of water withdrawn to water being returned directly to the same stream through effluent discharges.

Occurrence of flows below persistence levels

Flows at Agness, based on 1980- 2011 gaging records, were above ODFW persistence flows almost all the time from mid-September through April; curtailment would be extremely rare in these months. Curtailment would be common from May through early September (Table 3). In an 80% exceedance (dry) year, the amount of curtailment would be small, except in June when it would be 33% (the June 80% exceedance flow at Agness is 2530, which is 33% less than the 3800 cfs target).

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Table 3. Monthly flows for fish persistence, and percentage of time those flows were not met, based on 31 years of gage records at Agness.

Month	ODFW targets	% time missed
Jan	935	0
Feb	935	0
Mar	935	0
Apr	935	0
May	3800	30%
Jun	3800	55%
Jul	2000	25%
Aug	2000	20%
Sep1-10	2000	20%
Sep11-30	935	0
Oct	935	0
Nov	935	0
Dec	935	0

This concludes ODFW's advice to WRD on City of Grants Pass's Municipal Extension Application # S-34141. If you have questions about our advice or need further clarification, please contact Rick Kepler, the manager of our Water Quality/Quantity Section, at 503-947-6084.

Sincerely,

Curtis E. Melcher

Curt Melcher
Deputy Director

Cc: Mayor Mike Murphy, Jason Canady, City of Grants Pass
Brian Ginter, Murray, Smith and Associates
Rick Kepler, Oregon Department of Fish & Wildlife

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APPLICATION FOR EXTENSION OF TIME
TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
NAME

101 NW "A" Street	Grants Pass	Oregon	97526	541-474-6360
ADDRESS	CITY	STATE	ZIP	PHONE

owner of record, or duly authorized agent, of Application No. 34141 Permit No. 26901, 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, _____, be extended to October 1, _____,

and/or the time in which to:

[X] 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, 2020.

NOTE: The extension of time requested should be long enough to finish the project. Should this request be approved, it will be the Department's expectation that you will complete our project within the new time period allowed. Future extensions may not be granted.

Attached is an instruction sheet to assist you in completing the information on the permit extensions application form. Oregon Water Law and Administrative Rules require this information to be considered by the Water Resources Department when reviewing a permit extension. All items must be completed or the application will be returned. Please feel free to provide the Department with any additional information that would aid us in making our decision. Please use additional sheets of paper as needed to fully respond to the questions.

After reviewing the application form and the instruction sheet, if you have any questions, please contact the Department at 1-800-624-3199, or locally in the Salem vicinity at (503)378-3739, and request assistance from the Water Rights Division, permit extensions personnel.

1. **Did water system construction/well drilling begin within the time specified in the permit? YES/NO**

Yes, the City of Grants Pass began construction of its municipal water system in 1930 and has steadily expanded the system since then. The time limit to begin construction was July 21, 1982. Chapter 2 of the Grants Pass Water Management Plan provides a history of the system expansion. A copy of the Plan is attached as Exhibit A.

2. **Has construction of diversion/appropriation works, distribution system, and use of water, if any, been accomplished consistent with the limitations and conditions of this permit? YES/NO**

Pursuant to ORS 537.230(1), the permit does not contain time sensitive conditions.

a) **Please describe how you have complied with each applicable permit condition.**
NOTE: The instruction sheet for permit extension applications provides some direction as to what is an "applicable" condition at time of permit extension review.

The permit does not contain time sensitive conditions.

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b) **If you have not complied with all applicable conditions, please explain the reasons why and indicate a date certain, in the near future, by which time you will be in compliance with applicable conditions.**

Not applicable.

3. **I have accomplished the following described works, purchases and installation of equipment necessary to the use of water under said permit:**

a) **Within the past year or, if a prior extension was authorized, during the last permit extension period:**

The following work was performed since the last permit extensions on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the Laurel Ridge Pump Station – capacity 1,450 GPM
- Addition of the Meadow Wood Pump Station – capacity: 1400 GPM
- Addition of 21.94 miles of new water mains in varying sizes
- Addition of 639 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $975,000. The value of water main extensions and pumps stations constructed by developers are not included

b) **Prior to the past year or, if a prior extension was authorized, prior to the last extension period:**

The following work was performed during the prior permit extension periods of 10/1/1994 to 10/1/1999 on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the 4.5 million gallon Denton Trail Reservoir
- Addition of New Hope Pump Station – capacity 3500 GPM
- Addition of the Harbeck Heights Pump Station – capacity 1380 GPM
- Modification of the Hefty Pump Station – capacity increased from 1000 GPM to 3200 GPM
- Addition of 19.8 miles of new water mains in varying sizes
- Addition of 800 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $4,709,600. The value of water main extensions and pumps stations added constructed by developers are not included.

c) **I have accomplished beneficial use of water under the permit to the extent of (amount of water used or acres irrigated):**

Average annual demand has increased from 3.73 to 4.5 mgd from 1995 to 2000. Chapter 3 of the Grants Pass Water Management Plan provides a summary of current and past water demand. The Water Management Plan is attached as Exhibit B.

4. **Cost of project to date**

Based on readily available information, the total capital investment from 1970 to date is greater than $24,603,859 for Permits Nos. P26901, P45827, and P47346.

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Estimated remaining cost to complete the project. Estimated future costs are presented in Grants Pass Water Distribution System Master Plan, Table 7-4.

5. **Please list the reasons why the project was not constructed, and/or water not beneficially used within permit time limits under the appropriate categories below. Please provide supporting information for each reason identified.**

a) **The project is of a size and scope that the original intent was to phase it in over a period longer than the timeframes allowed in the permit.**

The intent of the project is to increase system development as required by water demand. Chapter 3 of the Grants Pass Water Distribution Master Plan presents an analysis of past and future water demand.

b) **Financing and/or cash-flow needs to develop the project precluded completion of the project within authorized timeframes.**

c) **Good faith attempts to comply with permit conditions and/or to acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

d) **Acts of God or other unforeseen events delayed full development of the water system and use of water.**

6. **Please identify the economic market or markets to which beneficial use of water under the permit is responding.**

Domestic water supply for home occupancy. Commercial and municipal water supply for economic and city infrastructure development.

a) **Has there been any change in this market since the permit was issued?**

No. Grants Pass water use is primarily residential (64%). The industrial use has remained constant. Projected water demand and population growth is presented in Chapter 3 of the Grants Pass Water Management Plan.

b) **Have these changes, if any, affected the economic feasibility of your project?**

No.

7. **Are there other present competing demands for water in your community?**

No.

a) **Has there been any change in these demands for water since the permit was issued?**
No.

b) **Are you aware of alternative sources of water that may be able to satisfy the competing demands?**

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No.

c) **Are you aware of any adverse affects on your source of water that may have been caused by recent changes in use of water in your community?**

No.

8. **Will the income or use from the water development project authorized by this permit provide reasonable returns against the investment in the project?**

Income is returned to the City through water use fees. Current water rates are shown in City Resolution 3356 and the rates are further explained in the attached brochure prepared by the city, "Important Information About Your Water Rates." The Resolution and brochure are attached as Exhibit C.

9. **If the extension request is denied, is the current level of water use economically feasible?**

No, the City of Grants Pass is dependant on surface water divisions to accommodate residential commercial and industrial growth. The community population is increasing as well as the capital demand. Loss of permitted water rights would curtail future growth in the community.

I am the permittee, or have authorization from the permittee, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for the Department to suspend processing of the request and/or reason to deny the extension.

William A Peterson Jr
Signature

28 Aug 2002
Date

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF $100 TO:

WATER RIGHT PERMIT EXTENSIONS
WATER RESOURCES
158 12TH STREET NE
SALEM, OR 97310

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Permit No. 26901

Attachment E

*APPLICATION FOR PERMIT

To Appropriate the Public Waters of the State of Oregon

I, City of Grants Pass Water Department (Name of applicant)

of City Hall, 4th and "H" Streets, Grants Pass, Oregon (Mailing address),

State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation Municipal Corporation chartered by the legislative assembly of the State of Oregon on February 16, 1901

1. The source of the proposed appropriation is Rogue River (Name of stream), a tributary of .....

2. The amount of water which the applicant intends to apply to beneficial use is 25 cubic feet per second. (If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is domestic and all other (Irrigation, power, mining, manufacturing, domestic supplies, etc.) municipal purposes.

4. The point of diversion is located 1133 ft. South (N. or S.) and 2870 ft. West (E. or W.) from the NE corner of Section 20 (Section or subdivision)

.....

.....

.....

(If preferable, give distance and bearing to section corner)

being within the NE¼ NW¼ Section 20, T.36S., R.5W. (If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the City of Grants Pass (Give smallest legal subdivision) of Sec. 7, 8, 17, 18/, 19 & 20, Tp. 36 S (N. or S.), R. 5 W. (E. or W.), W. M., in the county of Josephine

5. The ..... (Main ditch, canal or pipe line) to be ..... (Miles or feet) in length, terminating in the City of Grants Pass (Smallest legal subdivision) of Sec. 7, 8, 17, 18/ 19 & 20 Tp. 36 S (N. or S.), R. 5 West (E. or W.), W. M., the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam None feet, length on top ..... feet, length at bottom ..... feet; material to be used and character of construction ..... (Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate None (Timber, concrete, etc., number and size of openings)

.....

(c) If water is to be pumped give general description Present(2160 gpm 2500 gpm 1250 gpm 850, head 42') Future(four pumps of 4,000 gpm) All Electric. (Size and type of pump) (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

.....

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*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

11/
26901

Attachment E

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, ... ft.; size at intake, ... in.; size at ..... ft. from intake ..... in.; size at place of use ..... in.; difference in elevation between intake and place of use, ... ft. Is grade uniform? ..... Estimated capacity, ... sec. ft.

8. Location of area to be irrigated, or place of use .....

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
36 S	5 W	7	S½ & E½ NE¼	Municipal
		8	All	
		9	W½	
		16	W½	
		17	All	
		18	All	
		19	All	
		20	All	
		21	NW¼ & N½ SW¼	

(If more space required, attach separate sheet)

(a) Character of soil .....

(b) Kind of crops raised .....

Power or Mining Purposes—

9. (a) Total amount of power to be developed ..... theoretical horsepower.

(b) Quantity of water to be used for power ..... sec. ft.

(c) Total fall to be utilized ..... (Head) feet.

(d) The nature of the works by means of which the power is to be developed .....

.....

(e) Such works to be located in ..... (Legal subdivision) of Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(f) Is water to be returned to any stream? ..... (Yes or No)

(g) If so, name stream and locate point of return .....

....., Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(h) The use to which power is to be applied is .....

(i) The nature of the mines to be served .....

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Municipal or Domestic Supply—

Attachment E

10. (a) To supply the city of Grants Pass, Josephine County, 26901

(Name of) County, having a present population of 10,001

and an estimated population of 21,000 in 1980

(b) If for domestic use state number of families to be supplied 5,250

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $872,600 - This cost is for an expansion of the Water treatment plant only. This will be done in 3 phases to be completed by 1980.

12. Construction work will begin on or before The construction work is contingent on a vote of the public. The above costs are from a water system investigation by Cornell, Howland, Hayes & Merryfield done in 1960.

13. Construction work will be completed on or before

14. The water will be completely applied to the proposed use on or before About 1980.

(Signature of applicant)

Water Superintendent

Remarks: This application was made on the direct recommendation by Cornell, Howland, Hayes and Merryfield in an Engineering Report on a Water System investigation for the City of Grants Pass, Oregon. If there are any questions on the proposed use, a copy of this investigation is available at your request.

STATE OF OREGON, }
County of Marion, } ss.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before October 11, 1960

WITNESS my hand this 11th day of August, 1960

LEWIS A. ROBERTS STATE ENGINEER

By Walter H. Terry ASSISTANT

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Attachment E

PERMIT

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

(1)

The use to which this water is to be applied is municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 c.f.s.

If for irrigation, this appropriation shall be limited to -- of one cubic foot per second or its equivalent for each acre irrigated

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

The priority date of this permit is July 19, 1960.

Actual construction work shall begin on or before September 20, 1964 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1964.

Complete application of the water to the proposed use shall be made on or before October 1, 1967.

WITNESS my hand this 20th day of September, 1960.

Lewis A. Stanley
STATE ENGINEER

Application No. 34141
Permit No. 26901

PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the [illegible] day of [illegible], 19[illegible], at [illegible] o'clock [illegible] M.

Returned to applicant:

Approved:

September 20, 1960

Recorded in book No. 23 of Permits on page 26901

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. 15 page 605

Fees

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SALEM, OR

Attachment F

STATE OF OREGON

COUNTY OF JOSEPHINE

ORDER APPROVING AN ADDITIONAL POINT OF DIVERSION

Pursuant to ORS 537.211, after notice was given and no objections were filed, and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT 8032 submitted by

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS, OREGON 97526.

The permit to be modified is Permit 26901 with a date of priority of JULY 19, 1960. The permit allows the use of the ROGUE RIVER, a tributary of the PACIFIC OCEAN, for MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 25.0 cubic feet per second, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cubic feet per second, if available at the authorized point of diversion: NE¼ NW¼, SECTION 20, T 36 S, R 5 W, W.M.; 1133 FEET SOUTH AND 2870 FEET WEST FROM THE NE CORNER OF SECTION 20, or its equivalent in case of rotation, measured at the point of diversion from the source.

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

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The authorized place of use is located as follows:

E½ NE¼ S½ SECTION 7	ALL SECTION 17
ALL SECTION 8	ALL SECTION 18
W½ SECTION 9	ALL SECTION 19
W½ SECTION 16	ALL SECTION 20
	NW¼ N½ SW¼ SECTION 21

TOWNSHIP 36 SOUTH, RANGE 5 WEST, W.M.

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

The applicant proposes an additional point of diversion at:

SE¼ NE¼, SECTION 24, T 36 S, R 6 W, W.M.; 2400 FEET SOUTH AND 540 FEET WEST FROM THE NE CORNER OF SECTION 24.

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

(2) 1. The quantity of water diverted at the new point of diversion, together with that diverted at the old point of diversion, shall not exceed the quantity of water lawfully available at the original point of diversion.

(3) 2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

(4) 3. Water shall be acquired from the same surface water source as the original point of diversion.

(5) 4. All other terms and conditions of the permit remain the same.

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(6) 5. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Permit 26901, in the name of CITY OF GRANTS PASS WATER DEPARTMENT, is amended as described herein.

WITNESS the signature of the Water Resources Director, affixed AUG 20 1998.

For Martha O. Pagel, Director

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Attachment G

SITE REPORT

FOR

THE PARTIAL PERFECTION

OF

PERMIT NO. 26901

Located in:
Sections 22, 26, and 27, T.35S., R.6W., W.M.
Sections 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 28, 29, and 30, T.36S., R.5W., W.M.
Sections 13, 23, 24, 25, and 26, T.36S., R.6W., W.M.
Josephine County, Oregon

August 24, 2001

APPLICATION NO. 34141
PERMIT NO. 26901

Prepared For:

City of Grants Pass
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

Prepared By:

Gary D. Wicks, PE, PLS
WICKS ENGINEERING & SURVEYING
311 N.E. "D" Street
Grants Pass, Oregon 97526

Tel: (541) 479-3436
Fax: (541) 479-1014

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PERMITTEE:

City of Grants Pass
Water Department
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

SOURCE:
Rogue River

TYPE OF USE:
Municipal

DIVERSION POINTS

Four 12" diameter ductile iron pipes and turbine pumps that manifold into a 36 inch diameter ductile iron pipe which conveys water to the water treatment plant. All four pipes are located in the NE1/4NW1/4 of Section 20, T.36S., R.5W., W.M. at a point 317 feet South and 1668 feet West of the SSE Corner of the J. Jones DLC No.38.

DIVERSION WORKS DESCRIPTION:

The diversion works are located at the water treatment plant and currently consist of four turbine pumps with spaces for two additional pumps that can be installed when required by increased demands. These pumps have 12" diameter ductile iron intakes and 12" diameter outlets that are connected by a manifold system to a 36" diameter ductile iron pipe which conveys water to the filtration and treatment processes within the plant.

Pumps: (Worthington) Peerless Single Stage
Size = 15HH3401-1
SN = VTP-56844
65 TDH @ 1760 rpm = 3200 gpm
Intake & Discharge size = 12"
Motors: U.S. Electric
Model = 404TP WPI Type RV
75 HP max RPM = 1780
440 volts 3 phase @ 60 hz.

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DISTRIBUTION SYSTEM

There are two 300 hp and three 250 hp pumps (see Table A, pg. 6) on the discharge side of the treatment plant which initially convey treated water into the service area delivery system. The service area is bounded by the Urban Growth Boundary, but also includes two areas near the Merlin Landfill and the North Valley Industrial Park. Approximately 131 miles of pipelines distribute the treated water to the City's customers, eight reservoirs, (see Table B, pg. 7) and ten booster pump stations (see Table A, pg. 6).

SYSTEM CAPACITY:

The current peak instantaneous demand is 28.63cfs as determined by flow meters at the treatment plant. 12.5cfs of this flow rate has already been certified per Certificate No. 15839 with a priority date of 1888. The City of Grants Pass wishes to partially perfect the remaining 16.13cfs as a portion (64.5%) of the 25cfs permitted per Permit No. 26901 with a priority date of July 19, 1960.

PLACE OF USE:

The current water service boundary is shown on the accompanying plat. The majority of the water usage occurs within, but is not limited to, the service area shown. For example, the city sells water that is delivered via trucks for users located outside the service area for domestic, irrigation, and industrial usages.

Service Area:

T35S, R6W
Sec 22: SE1/4SW1/4
Sec 26: NE1/4
Sec 27: NE1/4, NE1/4NW1/4, N1/2SE1/4

T36S, R5W
Sec 5: S1/2NW1/4, SW1/4
Sec 6: SW1/4NE1/4, NW1/4NW1/4, S1/2NW1/4, E1/2SW1/4, SE1/4
Sec 7: NE1/4, E1/2NW1/4, SW1/4SW1/4, E1/2SW1/4, SE1/4
Sec 8: Entire Section
Sec 9: W1/2NW1/4, W1/2SW1/4
Sec 16: NW1/4, SW1/4, W1/2SE1/4
Sec 17, 18, 19, and 20: Entire Section
Sec 21: W1/2NE1/4, NW1/4, SW1/4, W1/2SE1/4
Sec 28: SW1/4NW1/4, NW1/4SW1/4
Sec 29: NE1/4, N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4
Sec 30: N1/2NE1/4, NW1/4, W1/2SW1/4

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Service Area (continued):

T36S, R6W
Sec 13: E1/2NE1/4,SW1/4SE1/4, E1/2SE1/4
Sec 23: E1/2NE1/4, SE1/4
Sec 24: NE1/4, NE1/4NW1/4, S1/2NW1/4, SW1/4, SE1/4
Sec 25: N1/2NE1/4, S1/2SE1/4
Sec 26: NE1/4NE1/4

LIFT:

The water service area contains eight pressure zones. The elevation range within the service area ranges from 880 feet to 1560 feet.

PERMIT CONDITIONS:

The only permit condition is one which limits the right to use water from the Rogue River to those periods when the flow at the mouth of the Rogue River is greater than 735cfs.

PRIORITY DATE:

July 19, 1960

REMARKS:

O.A.R. 690-320-0040 : Incremental Perfection of a Municipal Water Right requires the quantity of water diverted, by month, for the preceeding three years. This information is provided in Table C, pg. 7, for the years 1997 through 2001 to date. It is also required that a plan be provided that shows how the municipal supplier intends to develop successive increments of its water right. This information is being provided as an attachment of the City of Grants Pass Water Distribution Master Plan prepared by West Yost & Associates in January, 2001, which includes a System Map showing the existing and proposed future pipelines.

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CERTIFICATIONS:

An inspection of the water usage completed by me on August 7, 2001 has disclosed that it was completed under terms and conditions of Permit No. 26901. The information in this report and represented on the accompanying plat is correct to the best of my knowledge.

Gary D. Wicks

Gary D. Wicks, C.W.R.E. 194

I, William A. Peterson, Jr., Water Superintendent for the City of Grants Pass, agree to the findings of Gary D. Wicks, C.W.R.E. 194, and do submit this site report and plat as our claim of partial perfection of the beneficial use of the water of the Rogue River as provided under the terms and conditions of Permit No. 26901.

William A Peterson Jr

William A. Peterson, Jr.
Water Superintendent

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TABLE A: EXISTING PUMPS

Pumping Station Name	Number of Pumps	Pump Motor Size and Speed (hp/rpm)	Capacity of Each Pump (gpm)
Treatment Plant Influent (river to plant)	4	75/1,760 75/1,760 75/1,760 75/1,760	3,200 3,200 3,200 3,200
Treatment Plant Effluent (plant to system)	5	300/1,775 300/1,775 250/1,760 250/1,760 200/1,750	3,500 3,500 3,500 3,500 2,600
Lawnridge	4	25/1,750 50/1,750 50/1,750 100/1,750	400 1,000 1,000 2,000
Madrone	3	60/1,750 40/1,750 30/1,750	2,000 1,200 900
Champion	3	50/1,750 150/1,750 100/1,750	800 2,300 1,600
Starlite	4	15/3,500 30/1,760 60/1,760 30/1,760	60 450 1,050 450
Hefley	4	7.5/3,500 15/3,500 60/3,500 60/3,500	40 120 600 600
North Valley	3	7.5/3,500 30/3,500 30/3,500	70 500 500
Hilltop	3	5/3,600 7.5/3,600 40/3,600	100 150 750
New Hope	4	30/3,600 30/3,600 30/3,600 150/1,800	350 350 350 2,000
Harbeck Heights	3	5/3,600 5/3,600 50/3,600	90 90 1,200
Laurelridge	3	15/3,500 15/3,500 75/3,500	290 290 1,000

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TABLE B: EXISTING RESERVOIRS

Reservoir Number	Capacity (mg)	Bottom Elevation (ft)	Overflow Elevation (ft)
3	3.5	1089.5	1108.5
4	0.75	1216	1240
5	3.5	1079.5	1108.5
6	3.5	1211	1240
8	2.0	1341	1370
11	4.5	1080.1	1108.5
13	0.08	1510	1520
15	1.2	1374	1403

TABLE C: GRANTS PASS WATER USE (million gallons)

Month	1997	1998	1999	2000	2001
January	87.91	93.22	99.40	99.66	96.75
February	83.86	84.16	85.77	96.60	89.45
March	94.84	98.10	96.72	98.66	103.69
April	105.02	102.28	107.36	122.31	113.30
May	160.28	115.06	168.25	152.93	209.16
June	179.80	182.79	231.70	235.27	231.08
July	222.84	262.24	273.79	245.08	
August	227.17	261.13	243.19	262.95	
September	139.81	210.97	210.25	192.61	
October	104.40	130.17	160.87	139.96	
November	92.84	95.80	108.96	99.03	
December	92.58	104.47	115.01	95.83	
Total	1591.35	1740.39	1901.27	1840.89	843.43

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Attachment H

December 19, 2005

Ms. Lisa Jaramillo
Water Rights Specialist
Water Resources Department
725 Summer St. NE, Suite A
Salem, OR 97301-1271

Subject: Pending Application for Extension of Time
Water Right Application S-34141 (Permit S-26901)
Water Right Application S-41672 (Permit S-45827)
Water Right Application S-64732 (Permit S-47346)

Dear Ms. Jaramillo:

In response to your October 27, 2004 request, we are submitting additional information for the time extension applications for the above referenced water rights. This information is intended to supplement and update the applications submitted in August 2002.

Please address all further correspondence on these extensions to me and copy my engineer, Corie Peterson at:

West Yost Associates
1800 Blankenship Road, Suite 425
West Linn, Oregon 97068

phone: 503-657-8813
fax: 503-722-2342
cpeterson@westyost.com

If you should have any questions, or need further information please do not hesitate to contact me or Corie.

Thank you for your assistance.

Sincerely,

Jason Canady
Water Treatment Plant Supervisor
City of Grants Pass Water Treatment Plant

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Attachment H

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION FOR EXTENSIONS OF TIME FOR SURFACE WATER RIGHTS APPLICATION NO. S-34141, PERMIT NO. S-26901 APPLICATION NO. S-41672, PERMIT NO. S-45827 APPLICATION NO. S-64732, PERMIT NO. S-47346

DECEMBER 2005

Submitted By:
City of Grants Pass
101 NW A Street
Grants Pass, Oregon 97526
541-474-6360

Prepared By:
West Yost & Associates
1800 Blankenship Rd, Ste. 425
West Linn, Oregon 97068
503-657-8813

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The City of Grants Pass requested time extensions for three uncertificated water rights on August 28, 2002. The Oregon Department of Water Resources (WRD) responded with a request for additional information on October 27, 2004. The applications and WRD information request are included as Attachment A.

It should be noted that the City applied for partial perfection for Application/Permit S-34141/S-26901 on August 24, 2001. If approved, this would certificate 16.13 cfs of the total 25 cfs listed in the permit. The Application for Extension of Time for this permit is for the 8.87 cfs remaining after the partial perfection.

Following are WRD comments with responses. The comment numbers refer to the WRD Information Request item numbers.

WRD COMMENT

1. What is the maximum instantaneous rate under each permit?

RESPONSE

The maximum instantaneous rate has been identified by WRD for certificating purposes as the maximum rate sustained for 4 hours. According to City staff, this rate is 13,900 gpm (31 cfs). This rate is evidenced in a summary of information taken from the City's Water Filtration Plant daily records as reported to the Oregon Department of Human Services. This rate is produced regularly each year for durations in excess of 4 hours. The City's use is assigned as follows:

- 12.5 cfs from Certificate No. 15839
- 1.3 cfs from Permit No. S-47346 – specifically used in the North Valley/Merlin area per Place of Use designation
- 17.2 cfs from Permit No. S-26901

Table 1 lists all certificates and permits held by the City.

WRD COMMENT

2. Do all three permits share the same point of diversion?

RESPONSE

Yes, the points of diversion for all of the rights at are the water treatment plant intake. Permit number S-26901 also has an additional point of diversion located the City's All Sports Park as approved by Transfer Order T-8032. To date, however, this point of diversion has not been utilized by the City.

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Table 1. City of Grants Pass Existing Water Rights

App/Permit Number	Certificate Number	Source	Amount Authorized, cfs	Amount Used, cfs	Priority Date	Use
N/A	15839	Rogue River	12.5	12.5	1888	Used to meet current water demands within the City's service zone.
S-34141/ S-26901	N/A	Rogue River	25.0*	17.2	1960	Used to meet current water demands within the City's service zone.
S-41672/ S-45827	N/A	Rogue River	25.0	0.0	1965	Will be used for future growth.
S-64732/ S-47346	N/A	Rogue River	25.0	1.3	1983	Used to meet current water demands in the North Valley/Merlin area. Will be used for future growth within the City's service zone.
Total			87.5	31.0		

*A special condition of this permit states that the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.

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WRD COMMENT

3. How does the City utilize all of its water rights?

Please provide a list describing which certificates/permits are currently being used to meet water demands.

Please describe why any certificates/permits are not yet being used. Is this related to growth of the community and the associated demands for water?

Is any open certificate/permit used as a primary source of water over the others?

Are any held only for redundancy or emergency back-up purposes?

Is there any seasonal availability that limits use?

RESPONSE

a. Refer to Table 1 and the response to WRD Comment No. 1. All of the rights are held to meet municipal water demands. The certificated right and the most senior permit (for which a partial perfection has been submitted) are currently used to supply water within the City's service zone. Permit No. 47346 is currently used to supply areas outside the City's service zone that are within this permit's designated place of use.

b. Permit No. 45827 will be used inside the City's service zone as it is needed to provide for municipal growth.

c. Use of the water is allocated first to the City's certificated right and then to the City's most senior right and to the City's right that serves the North Valley/Merlin area.

d. None of the permits are held for redundancy or emergency back-up purposes as they are all from the same source.

e. The most senior permit has a special condition as listed in Table 1 that was identified during the award of Transfer Order T-8032. This limitation, however, is inherent to all three permitted rights held by the City since it describes an in-stream, minimum flow condition with a priority date prior to all rights. MF-265, which is an in-stream right for a minimum flow at the mouth of the Rogue River of 735 cfs, affects all three rights since it has a priority date of May 22, 1959. MF-266, which is an in-stream right for a minimum flow at the mouth of the Rogue River of 935 cfs, affects only the City's most junior right since it has a priority date of February 24, 1966. Permit Nos. 45827 and 47346 have no other limits on their use.

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WRD COMMENT

4. Page 1-4 of the City's Water Management Plan (June 2002) states that the Max Day Demand at Full Buildout will be 21 mgd (32.5 cfs).

   - In what year is Full Buildout expected to occur? Please describe any factors that support this forecast.

   - Grants Pass holds 87.5 cfs of water rights. If only 32.5 cfs of water is needed at Full Buildout as indicated in the Water Management Plan, what's going to happen to the remainder of the water rights? Why is the remaining water (55.0 cfs) needed?

   - Is more time beyond the year 2020 needed to fully develop all of the rights? For each permit you should request the date by which full beneficial use of water can be reasonably be accomplished.

RESPONSE

The flow projections in the Water Management Plan (West Yost & Associates, June 2002) were taken from the Water Distribution System Master Plan (West Yost & Associates, January 2001). The Water Distribution Master Plan (WDMP) projects a maximum day demand at buildout conditions of 20 mgd (31 cfs) and a peak hour demand at buildout of 40 mgd (62 cfs). It is appropriate to use peak hour demand rather than maximum day demand when projecting water supply needs. The peak hour projections used for the time extensions are much closer to the WRD requirement of peak instantaneous for certification than maximum day projections would be.

In addition to lands inside the UGB, the Water Distribution System Master Plan also identified two areas outside the UGB that are currently being served, or likely will be served by the City in the future. These lands consist of approximately 400 acres contiguous to the UGB that are not currently being served and an area near North Valley/Merlin that is currently being served. The Master Plan estimates that the 400 acres would generate approximately 0.5 mgd (0.77 cfs) average day demand or 1.0 mgd (1.55 cfs) peak day demand. The North Valley/Merlin area is served by a pump station with a current capacity to serve a maximum day demand of 0.82 mgd (1.27 cfs). Since the Master Plan was completed in January 2001, plans have been made for the development of the Paradise Ranch Resort in the North Valley/Merlin area. This development is planned to be served by the City and would initially have an average day use of 1 mgd (1.55 cfs) resulting in a potential peak use of 2 mgd (3.1 cfs).

Including these additional areas and customers that the City is currently serving or is planning to serve, a true future peak hour demand for the City of Grants Pass, based on the City's Water System Master Plan is estimated at 46 mgd (71 cfs). To more accurately estimate future water use for the area, not just the City inside the UGB, the current peak hour demand is projected based on population projections.

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The recently completed Water Treatment Plant Facility Plan (Montgomery Watson Harza, May 2004) notes that peak demand has increased 2.5 to 3.0 percent over the last eight years. Population data from the Portland State University, Population Research Center shows a 2.5 percent growth rate for Grants Pass over the last 14 years. Figure 1 shows peak demand projected at 2.5 percent from the current sustained peak demand of 20 mgd (31 cfs). The expected date by which the water supplied under each permit will be put to full beneficial use is shown graphically along the curve and is listed below in Table 2.

Table 2. Expected Date of Complete Development for Water Permits

Application/Permit Number	Date
S-34141/S-26901	October 1, 2014
S-41672/S-45827	October 1, 2034
S-64732/S-47346	October 1, 2047

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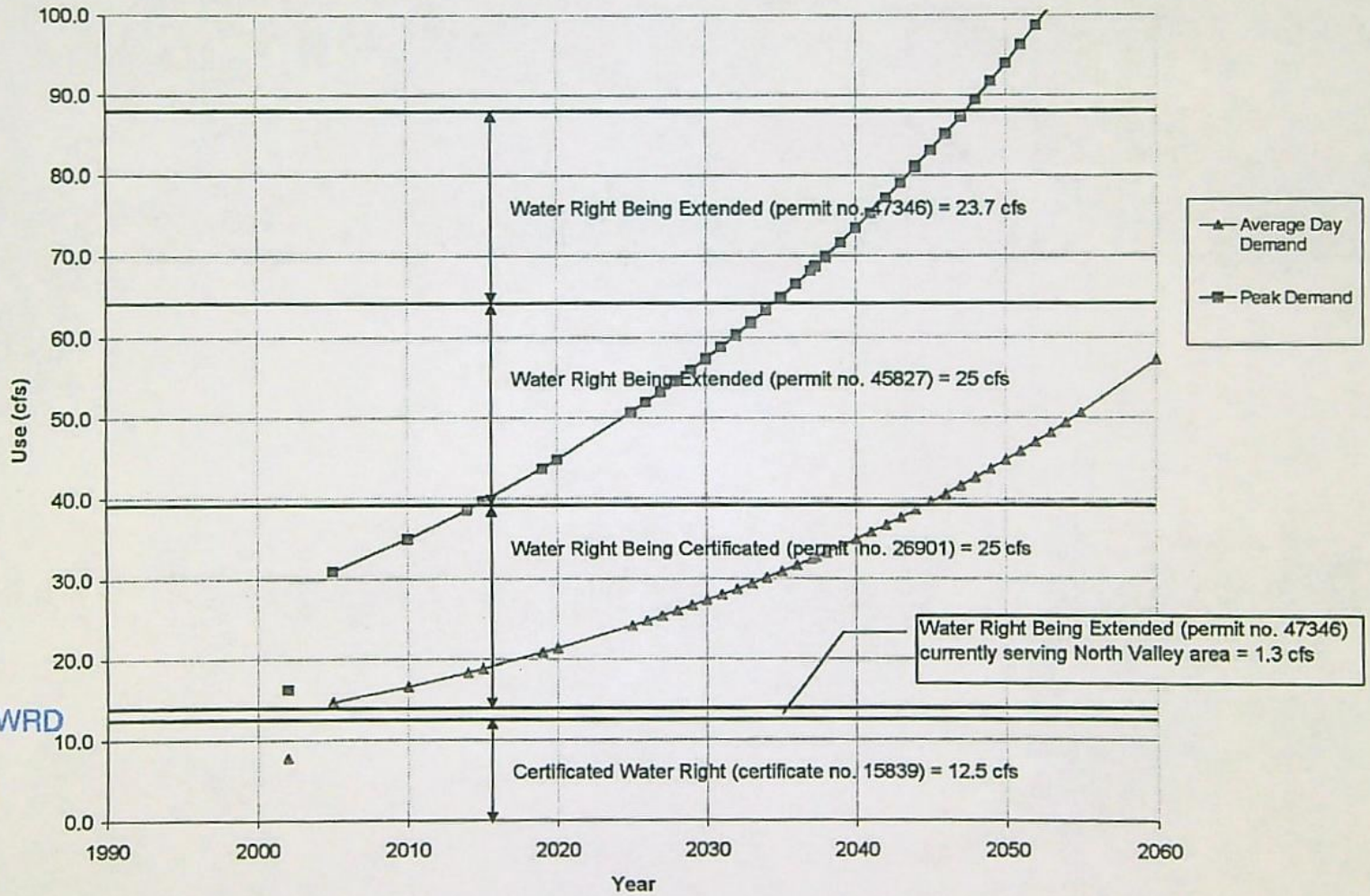
Figure 1. Projected Water Use
2.5% growth



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ENCLOSURES

Application for Extension of Time for Permit 26901

Application for Extension of Time for Permit 45827

Application for Extension of Time for Permit 47346

Site Report for Partial Perfection of Permit 26901

WRD email transmission for additional information for permit extension application dated October 27, 2004.

Plant records documenting 4 hour sustained peak of 20 mgd.

RECEIVED BY OWRD

SEP 19 2013

SALEM, OR

Ann Reece

From: Ann Reece <ann.l.reece@state.or.us>
Sent: Monday, November 25, 2013 10:29 AM
To: 'Ann Reece'; Michael McKillip
Cc: 'Jason Canady'; Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Mike,

That is great news. The Proposed Final Orders are scheduled to go on out Dec. 3, 2013. There will be a 45 day protest period. If there are no protests, the Final Orders will be issued shortly after the 45 day period.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Michael McKillip [mailto:Michael.McKillip@msa-ep.com]
Sent: Friday, November 22, 2013 10:24 AM
To: 'Ann Reece'
Cc: 'Jason Canady'; Brian Ginter
Subject: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hello Ann,

We received your letter dated November 15, 2013, providing notification of the ODFW proposed fish persistence evaluations. We have reviewed with the City of Grants Pass and would like to proceed with processing the Extensions of Time for water rights applications S-34141, S-41672 & S-64732.

The City of Grants Pass Water Management and Conservation Plan is currently on administrative hold to potentially coordinate timing of the WMCP final order with the Extensions of Time. Please advise us of the anticipated Extensions processing schedule.

Thank you! -Mike

Michael L. McKillip, P.E., Ph.D. ▪ Civil Engineer
Murray, Smith & Associates, Inc. ▪ www.msa-ep.com
121 SW Salmon, Suite 900 ▪ Portland, Oregon 97204-2919
Tel: 503.225.9010 ▪ Fax: 503.225.9022 ▪ mlm@msa-ep.com

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Please consider the environment before printing this e-mail.

Revised Muni Ext. Application

File # S-34141 (Permit # S-26901)

City of Grants Pass

"Where The Rogue River Runs"

February 19, 2003

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FEB 26 2003
WATER RESOURCES DEPT.
SALEM, OREGON

Ms. Lisa J. Juul, Water Rights Specialist
Water Rights Section
Oregon Water Resources Department
Commerce Building
158 12th Street NE
Salem, Oregon 97301-4172

RE: Re-submittal of Water Rights Extension Applications – Permit #G45827
(Application File #G41672)

Dear Ms. Juul:

This letter is in response to your correspondence of January 6, 2003 requesting re-submittal of applications for extensions of time for municipal water use permits No. 26901, 45827, and 47346. We understand the Water Resources Department ("Department ") would like to ensure that the City of Grants Pass ("City") has submitted all information requested in the Department's newly revised permit application. Previously, the City submitted a projected needs statement, Water Management Plan and Water Distribution Plan in addition to its permit applications. Thus, Grants Pass has submitted all the information requested in the new revised application.

We have prepared the following table to correlate the requested information from the revised application to the City's previous extension applications, as discussed in your telephone conversation with Ms. Nanci Klinger (Davis Wright Tremaine LLP) on January 9, 2003. As discussed, this letter and resubmission of the previous applications is in lieu of completing the new permit applications.

Requested Information in Revised Permit Applications	Location of Same Information in Previously Submitted Application
Contact Person for Application	Per cover letter, Richard Glick or Nanci Klinger at Davis Wright Tremaine LLP
1. Appropriate Fee	Fee was previously submitted
2. For Quasi-municipal water use permits, evidence of the actions taken to begin actual construction on the project, if required under the applicable statute	These are not quasi-municipal permits

101 Northwest "A" Street • Grants Pass, Oregon 97526 • (541) 474-6360 • Fax (541) 479-0812

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3. Evidence of actions taken to develop the right within the permitted time period and/or time period of the previous extension	See responses 3a, 3b, and 3c, Chapter 2 of the Water Distribution Plan and Chapter 2 of the Water Management Plan
4. Evidence of compliance with conditions contained in the permit and any previous extension(s)	See response 2a
5. Evidence of the maximum rate of water diverted to date, if any, for Quasi-Municipal or Municipal purposes	See Projected Needs Statement
6. An estimate of the population served under this permit and a description of the methodology used to make this estimate	See Projected Needs Statement and Chapter 3 of the Grants Pass Water Management Plan
7. A description of the financial expenditures made toward completion of the water development	See responses 3a, 3b and 4
8. An estimate of the cost necessary to complete the water development	See response 4 and Grants Pass Water Distribution System Master Plan, Table 7-4
9. A summary of any events that delayed completion of the water development of 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.	See responses 5a and 6
10. An estimated demand projection and a description of the methodology 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	See responses 6, 7, the Projected Needs Statement and Chapter 3 of the Water Distribution System Master Plan and Chapter 6 of the Water Management Plan
11. A summary of the plan and schedule to complete construction and/or perfect the water right	See Chapter 6 of the Water Distribution Plan
12. Justification for the time requested to complete the project and/or apply the water to full beneficial use	The time period coincides with the planning used in the Water Distribution System Master Plan and Water Management Plan

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The City of Grants Pass also requested a partial perfection of Permit No. 26901. The requested time extension for Permit 26901 is only for the remaining portion of the permit after partial perfection; therefore, we request that the partial perfection be processed with the permit extension.

This letter allows the Department to review the City's extension requests without reformatting the three previous applications. This letter, in conjunction with the previously submitted extension applications, constitutes the response from the City of Grants Pass to your application request. For the Department's convenience, attached is a complete copy of the three previously submitted applications but without duplicate copies of the Grants Pass Water Management Plan or the Grants Pass Water Distribution System Master Plan. We appreciate your willingness to use this approach.

If you have any questions regarding these applications, please contact our attorneys, Nanci Klinger at (503) 778-5213 or Richard Glick (503) 778-5210.

Very truly yours,

William A. Peterson, Jr.
City Manager

Enclosures:
- Site Report for Partial Perfection of Permit 26901
- Survey in Support of Partial Perfection
- Application for Extension of Time for Permit 26901
- Application for Extension of Time for Permit 45827
- Application for Extension of Time for Permit 47346
- Water Uses, Projected Needs
- Resolution 3356
- "Important Information about Your Water Rates"

c: Rohel W. Amundson, Utilities Director
Jason Canady, Water Treatment Plant Supervisor
Nanci Klinger, Davis Wright Tremaine LLP
CF #03-049

Appl S-34141
(permit S-26901)

December 19, 2005

Ms. Lisa Jaramillo
Water Rights Specialist
Water Resources Department
725 Summer St. NE, Suite A
Salem, OR 97301-1271

Subject: Pending Application for Extension of Time
Water Right Application S-34141 (Permit S-26901)
Water Right Application S-41672 (Permit S-45827)
Water Right Application S-64732 (Permit S-47346)

Dear Ms. Jaramillo:

In response to your October 27, 2004 request, we are submitting additional information for the time extension applications for the above referenced water rights. This information is intended to supplement and update the applications submitted in August 2002.

Please address all further correspondence on these extensions to me and copy my engineer, Corie Peterson at:

West Yost Associates
1800 Blankenship Road, Suite 425
West Linn, Oregon 97068

phone: 503-657-8813
fax: 503-722-2342
cpeterson@westyost.com

If you should have any questions, or need further information please do not hesitate to contact me or Corie.

Thank you for your assistance.

Sincerely,

Jason Canady
Water Treatment Plant Supervisor
City of Grants Pass Water Treatment Plant

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RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION FOR EXTENSIONS OF TIME FOR SURFACE WATER RIGHTS APPLICATION NO. S-34141, PERMIT NO. S-26901 APPLICATION NO. S-41672, PERMIT NO. S-45827 APPLICATION NO. S-64732, PERMIT NO. S-47346

DECEMBER 2005

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DEC 23 2005
WATER RESOURCES DEPT
SALEM, OREGON

Terry Haugen, PWD

Submitted By:
City of Grants Pass
101 NW A Street
Grants Pass, Oregon 97526
541-474-6360

Prepared By:
West Yost & Associates
1800 Blankenship Rd, Ste. 425
West Linn, Oregon 97068
503-657-8813

The City of Grants Pass requested time extensions for three uncertificated water rights on August 28, 2002. The Oregon Department of Water Resources (WRD) responded with a request for additional information on October 27, 2004. The applications and WRD information request are included as Attachment A.

It should be noted that the City applied for partial perfection for Application/Permit S-34141/S-26901 on August 24, 2001. If approved, this would certificate 16.13 cfs of the total 25 cfs listed in the permit. The Application for Extension of Time for this permit is for the 8.87 cfs remaining after the partial perfection.

Following are WRD comments with responses. The comment numbers refer to the WRD Information Request item numbers.

WRD COMMENT

1. What is the maximum instantaneous rate under each permit?

RESPONSE

The maximum instantaneous rate has been identified by WRD for certificating purposes as the maximum rate sustained for 4 hours. According to City staff, this rate is 13,900 gpm (31 cfs). This rate is evidenced in a summary of information taken from the City's Water Filtration Plant daily records as reported to the Oregon Department of Human Services. This rate is produced regularly each year for durations in excess of 4 hours. The City's use is assigned as follows:

- 12.5 cfs from Certificate No. 15839
- 1.3 cfs from Permit No. S-47346 – specifically used in the North Valley/Merlin area per Place of Use designation
- 17.2 cfs from Permit No. S-26901

Table 1 lists all certificates and permits held by the City.

WRD COMMENT

2. Do all three permits share the same point of diversion?

RESPONSE

Yes, the points of diversion for all of the rights at are the water treatment plant intake. Permit number S-26901 also has an additional point of diversion located the City's All Sports Park as approved by Transfer Order T-8032. To date, however, this point of diversion has not been utilized by the City.

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Table 1. City of Grants Pass Existing Water Rights

App/Permit Number	Certificate Number	Source	Amount Authorized, cfs	Amount Used, cfs	Priority Date	Use
N/A	15839	Rogue River	12.5	12.5	1888	Used to meet current water demands within the City's service zone.
S-34141/ S-26901	N/A	Rogue River	25.0*	17.2	1960	Used to meet current water demands within the City's service zone.
S-41672/ S-45827	N/A	Rogue River	25.0	0.0	1965	Will be used for future growth.
S-64732/ S-47346	N/A	Rogue River	25.0	1.3	1983	Used to meet current water demands in the North Valley/Merlin area. Will be used for future growth within the City's service zone.
Total			87.5	31.0		

*A special condition of this permit states that the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.

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WRD COMMENT

3. How does the City utilize all of its water rights?

Please provide a list describing which certificates/permits are currently being used to meet water demands.

Please describe why any certificates/permits are not yet being used. Is this related to growth of the community and the associated demands for water?

Is any open certificate/permit used as a primary source of water over the others?

Are any held only for redundancy or emergency back-up purposes?

Is there any seasonal availability that limits use?

RESPONSE

a. Refer to Table 1 and the response to WRD Comment No. 1. All of the rights are held to meet municipal water demands. The certificated right and the most senior permit (for which a partial perfection has been submitted) are currently used to supply water within the City's service zone. Permit No. 47346 is currently used to supply areas outside the City's service zone that are within this permit's designated place of use.

b. Permit No. 45827 will be used inside the City's service zone as it is needed to provide for municipal growth.

c. Use of the water is allocated first to the City's certificated right and then to the City's most senior right and to the City's right that serves the North Valley/Merlin area.

d. None of the permits are held for redundancy or emergency back-up purposes as they are all from the same source.

e. The most senior permit has a special condition as listed in Table 1 that was identified during the award of Transfer Order T-8032. This limitation, however, is inherent to all three permitted rights held by the City since it describes an in-stream, minimum flow condition with a priority date prior to all rights. MF-265, which is an in-stream right for a minimum flow at the mouth of the Rogue River of 735 cfs, affects all three rights since it has a priority date of May 22, 1959. MF-266, which is an in-stream right for a minimum flow at the mouth of the Rogue River of 935 cfs, affects only the City's most junior right since it has a priority date of February 24, 1966. Permit Nos. 45827 and 47346 have no other limits on their use.

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WRD COMMENT

4. Page 1-4 of the City's Water Management Plan (June 2002) states that the Max Day Demand at Full Buildout will be 21 mgd (32.5 cfs).

   - In what year is Full Buildout expected to occur? Please describe any factors that support this forecast.

   - Grants Pass holds 87.5 cfs of water rights. If only 32.5 cfs of water is needed at Full Buildout as indicated in the Water Management Plan, what's going to happen to the remainder of the water rights? Why is the remaining water (55.0 cfs) needed?

   - Is more time beyond the year 2020 needed to fully develop all of the rights? For each permit you should request the date by which full beneficial use of water can be reasonably be accomplished.

RESPONSE

The flow projections in the Water Management Plan (West Yost & Associates, June 2002) were taken from the Water Distribution System Master Plan (West Yost & Associates, January 2001). The Water Distribution Master Plan (WDMP) projects a maximum day demand at buildout conditions of 20 mgd (31 cfs) and a peak hour demand at buildout of 40 mgd (62 cfs). It is appropriate to use peak hour demand rather than maximum day demand when projecting water supply needs. The peak hour projections used for the time extensions are much closer to the WRD requirement of peak instantaneous for certification than maximum day projections would be.

In addition to lands inside the UGB, the Water Distribution System Master Plan also identified two areas outside the UGB that are currently being served, or likely will be served by the City in the future. These lands consist of approximately 400 acres contiguous to the UGB that are not currently being served and an area near North Valley/Merlin that is currently being served. The Master Plan estimates that the 400 acres would generate approximately 0.5 mgd (0.77 cfs) average day demand or 1.0 mgd (1.55 cfs) peak day demand. The North Valley/Merlin area is served by a pump station with a current capacity to serve a maximum day demand of 0.82 mgd (1.27 cfs). Since the Master Plan was completed in January 2001, plans have been made for the development of the Paradise Ranch Resort in the North Valley/Merlin area. This development is planned to be served by the City and would initially have an average day use of 1 mgd (1.55 cfs) resulting in a potential peak use of 2 mgd (3.1 cfs).

Including these additional areas and customers that the City is currently serving or is planning to serve, a true future peak hour demand for the City of Grants Pass, based on the City's Water System Master Plan is estimated at 46 mgd (71 cfs). To more accurately estimate future water use for the area, not just the City inside the UGB, the current peak hour demand is projected based on population projections.

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The recently completed Water Treatment Plant Facility Plan (Montgomery Watson Harza, May 2004) notes that peak demand has increased 2.5 to 3.0 percent over the last eight years. Population data from the Portland State University, Population Research Center shows a 2.5 percent growth rate for Grants Pass over the last 14 years. Figure 1 shows peak demand projected at 2.5 percent from the current sustained peak demand of 20 mgd (31 cfs). The expected date by which the water supplied under each permit will be put to full beneficial use is shown graphically along the curve and is listed below in Table 2.

Table 2. Expected Date of Complete Development for Water Permits

Application/Permit Number	Date
S-34141/S-26901	October 1, 2014
S-41672/S-45827	October 1, 2034
S-64732/S-47346	October 1, 2047

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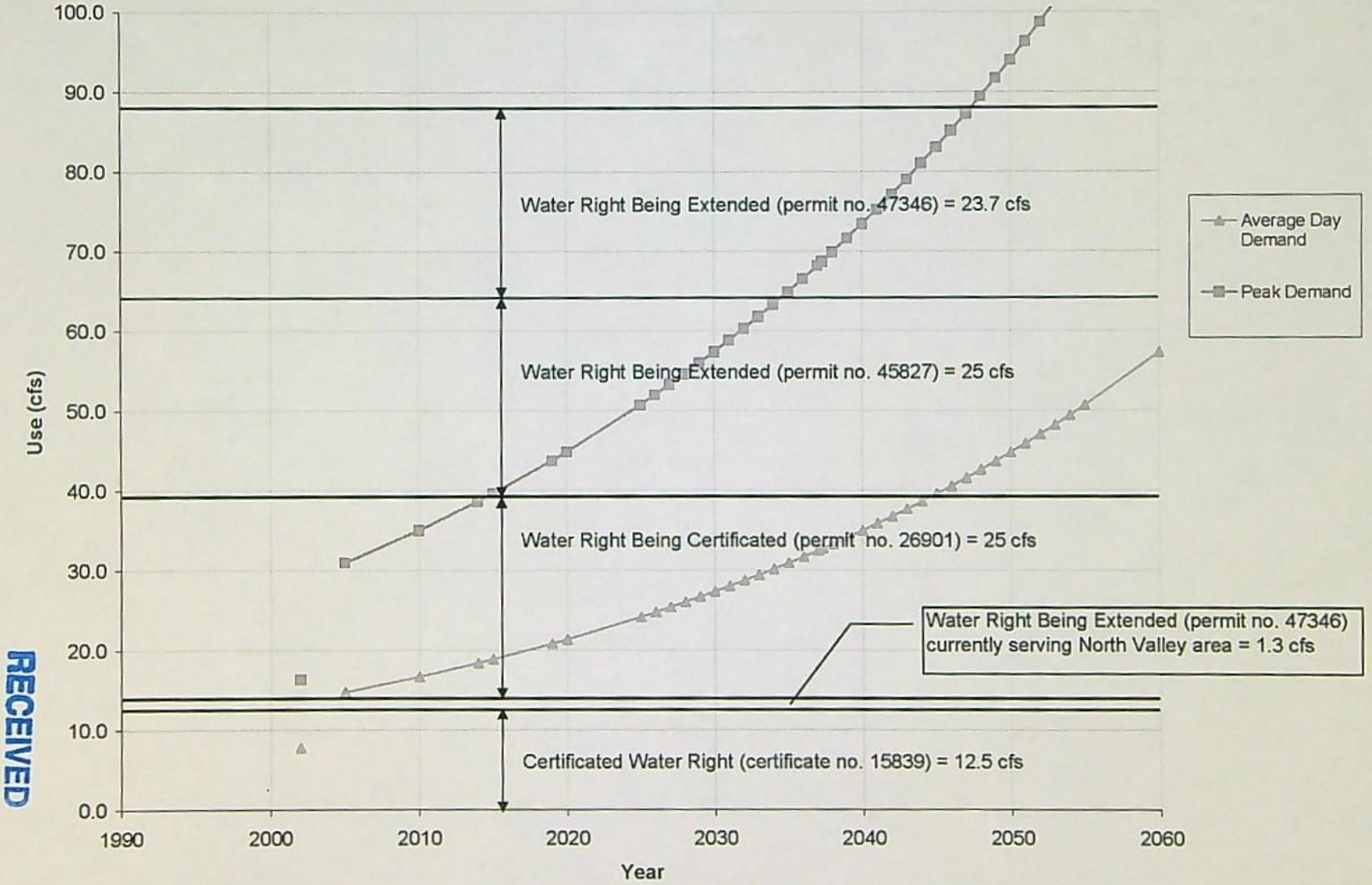
Figure 1. Projected Water Use
2.5% growth



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ENCLOSURES

Application for Extension of Time for Permit 26901

Application for Extension of Time for Permit 45827

Application for Extension of Time for Permit 47346

Site Report for Partial Perfection of Permit 26901

WRD email transmission for additional information for permit extension application dated October 27, 2004.

Plant records documenting 4 hour sustained peak of 20 mgd.

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SALEM, OREGON

APPLICATION FOR EXTENSION OF TIME
TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
NAME

101 NW "A" Street	Grants Pass	Oregon	97526	541-474-6360
ADDRESS	CITY	STATE	ZIP	PHONE

owner of record, or duly authorized agent, of Application No. 34141 Permit No. 26901, 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, _____, be extended to October 1, _____,

and/or the time in which to:

[X] 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, 2020.

NOTE: The extension of time requested should be long enough to finish the project. Should this request be approved, it will be the Department's expectation that you will complete our project within the new time period allowed. Future extensions may not be granted.

Attached is an instruction sheet to assist you in completing the information on the permit extensions application form. Oregon Water Law and Administrative Rules require this information to be considered by the Water Resources Department when reviewing a permit extension. All items must be completed or the application will be returned. Please feel free to provide the Department with any additional information that would aid us in making our decision. Please use additional sheets of paper as needed to fully respond to the questions.

After reviewing the application form and the instruction sheet, if you have any questions, please contact the Department at 1-800-624-3199, or locally in the Salem vicinity at (503)378-3739, and request assistance from the Water Rights Division, permit extensions personnel.

1. **Did water system construction/well drilling begin within the time specified in the permit? YES/NO**

Yes, the City of Grants Pass began construction of its municipal water system in 1930 and has steadily expanded the system since then. The time limit to begin construction was July 21, 1982. Chapter 2 of the Grants Pass Water Management Plan provides a history of the system expansion. A copy of the Plan is attached as Exhibit A.

2. **Has construction of diversion/appropriation works, distribution system, and use of water, if any, been accomplished consistent with the limitations and conditions of this permit? YES/NO**

Pursuant to ORS 537.230(1), the permit does not contain time sensitive conditions.

a) **Please describe how you have complied with each applicable permit condition.**
NOTE: The instruction sheet for permit extension applications provides some direction as to what is an "applicable" condition at time of permit extension review.

The permit does not contain time sensitive conditions.

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b) **If you have not complied with all applicable conditions, please explain the reasons why and indicate a date certain, in the near future, by which time you will be in compliance with applicable conditions.**

Not applicable.

3. **I have accomplished the following described works, purchases and installation of equipment necessary to the use of water under said permit:**

a) **Within the past year or, if a prior extension was authorized, during the last permit extension period:**

The following work was performed since the last permit extensions on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the Laurel Ridge Pump Station – capacity 1,450 GPM
- Addition of the Meadow Wood Pump Station – capacity: 1400 GPM
- Addition of 21.94 miles of new water mains in varying sizes
- Addition of 639 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $975,000. The value of water main extensions and pumps stations constructed by developers are not included

b) **Prior to the past year or, if a prior extension was authorized, prior to the last extension period:**

The following work was performed during the prior permit extension periods of 10/1/1994 to 10/1/1999 on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the 4.5 million gallon Denton Trail Reservoir
- Addition of New Hope Pump Station – capacity 3500 GPM
- Addition of the Harbeck Heights Pump Station – capacity 1380 GPM
- Modification of the Hefty Pump Station – capacity increased from 1000 GPM to 3200 GPM
- Addition of 19.8 miles of new water mains in varying sizes
- Addition of 800 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $4,709,600. The value of water main extensions and pumps stations added constructed by developers are not included.

c) **I have accomplished beneficial use of water under the permit to the extent of (amount of water used or acres irrigated):**

Average annual demand has increased from 3.73 to 4.5 mgd from 1995 to 2000. Chapter 3 of the Grants Pass Water Management Plan provides a summary of current and past water demand. The Water Management Plan is attached as Exhibit B.

4. **Cost of project to date**

Based on readily available information, the total capital investment from 1970 to date is greater than $24,603,859 for Permits Nos. P26901, P45827, and P47346.

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Estimated remaining cost to complete the project. Estimated future costs are presented in Grants Pass Water Distribution System Master Plan, Table 7-4.

5. **Please list the reasons why the project was not constructed, and/or water not beneficially used within permit time limits under the appropriate categories below. Please provide supporting information for each reason identified.**

a) **The project is of a size and scope that the original intent was to phase it in over a period longer than the timeframes allowed in the permit.**

The intent of the project is to increase system development as required by water demand. Chapter 3 of the Grants Pass Water Distribution Master Plan presents an analysis of past and future water demand.

b) **Financing and/or cash-flow needs to develop the project precluded completion of the project within authorized timeframes.**

c) **Good faith attempts to comply with permit conditions and/or to acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

d) **Acts of God or other unforeseen events delayed full development of the water system and use of water.**

6. **Please identify the economic market or markets to which beneficial use of water under the permit is responding.**

Domestic water supply for home occupancy. Commercial and municipal water supply for economic and city infrastructure development.

a) **Has there been any change in this market since the permit was issued?**

No. Grants Pass water use is primarily residential (64%). The industrial use has remained constant. Projected water demand and population growth is presented in Chapter 3 of the Grants Pass Water Management Plan.

b) **Have these changes, if any, affected the economic feasibility of your project?**

No.

7. **Are there other present competing demands for water in your community?**

No.

a) **Has there been any change in these demands for water since the permit was issued?**
No.

b) **Are you aware of alternative sources of water that may be able to satisfy the competing demands?**

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No.

c) **Are you aware of any adverse affects on your source of water that may have been caused by recent changes in use of water in your community?**

No.

8. **Will the income or use from the water development project authorized by this permit provide reasonable returns against the investment in the project?**

Income is returned to the City through water use fees. Current water rates are shown in City Resolution 3356 and the rates are further explained in the attached brochure prepared by the city, "Important Information About Your Water Rates." The Resolution and brochure are attached as Exhibit C.

9. **If the extension request is denied, is the current level of water use economically feasible?**

No, the City of Grants Pass is dependant on surface water divisions to accommodate residential commercial and industrial growth. The community population is increasing as well as the capital demand. Loss of permitted water rights would curtail future growth in the community.

I am the permittee, or have authorization from the permittee, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for the Department to suspend processing of the request and/or reason to deny the extension.

William A Peterson Jr
Signature

28 Aug 2002
Date

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF $100 TO:

WATER RIGHT PERMIT EXTENSIONS
WATER RESOURCES
158 12TH STREET NE
SALEM, OR 97310

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STATE OF OREGON

COUNTY OF JOSEPHINE

ORDER APPROVING AN ADDITIONAL POINT OF DIVERSION

Pursuant to ORS 537.211, after notice was given and no objections were filed, and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT 8032 submitted by

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS, OREGON 97526.

The permit to be modified is Permit 26901 with a date of priority of JULY 19, 1960. The permit allows the use of the ROGUE RIVER, a tributary of the PACIFIC OCEAN, for MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 25.0 cubic feet per second, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cubic feet per second, if available at the authorized point of diversion: NE¼ NW¼, SECTION 20, T 36 S, R 5 W, W.M.; 1133 FEET SOUTH AND 2870 FEET WEST FROM THE NE CORNER OF SECTION 20, or its equivalent in case of rotation, measured at the point of diversion from the source.

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

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The authorized place of use is located as follows:

E½ NE¼ S½ SECTION 7	ALL SECTION 17
ALL SECTION 8	ALL SECTION 18
W½ SECTION 9	ALL SECTION 19
W½ SECTION 16	ALL SECTION 20
	NW¼ N½ SW¼ SECTION 21

TOWNSHIP 36 SOUTH, RANGE 5 WEST, W.M.

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

The applicant proposes an additional point of diversion at:

SE¼ NE¼, SECTION 24, T 36 S, R 6 W, W.M.; 2400 FEET SOUTH AND 540 FEET WEST FROM THE NE CORNER OF SECTION 24.

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

1. The quantity of water diverted at the new point of diversion, together with that diverted at the old point of diversion, shall not exceed the quantity of water lawfully available at the original point of diversion.

2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same surface water source as the original point of diversion.

4. All other terms and conditions of the permit remain the same.

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5. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Permit 26901, in the name of CITY OF GRANTS PASS WATER DEPARTMENT, is amended as described herein.

WITNESS the signature of the Water Resources Director, affixed AUG 20 1998.

For Martha O. Pagel, Director

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Abstract of Permit No. 26901

Application No. 31141 *Certificate No.*

Name City of Grants Pass Water Department

Address City Hall - 4th and "H" Streets
Grants Pass, Oregon

Source of water supply Rogue River

Use Municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue * 1133' S. and 2870' W. from the NE corner of Section 20, being within the NE¼ NW¼ of Section 20, T. 36 S., R. 5 W., W.M., in the county of Josephine.

Point of diversion

Number of acres

DESCRIPTION OF LAND TO BE IRRIGATED OR PLACE OF USE

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼
36 S	5 W	7	X			X					X	X	X	X	X	X	X	X
		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		9						X	X			X	X					
		16					X	X	X	X	X	X	X	X				
		17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		21					X	X	X	X	X	X						

~~* River at its mouth is more than 735 c.f.s.~~

Priority date July 19, 1960

Amount of water 25.0 c.f.s. measured at the point of diversion

Time limit to begin construction September 20, 1964

Time limit to complete construction 10/1/64 *extended to* 10-1-99 *extended to*

Time limit to completely apply water 10/1/64 *extended to* 10-1-99 *extended to*

Remarks:

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Rogue River misc.

Basin 15 Vol. 1

SITE REPORT

FOR

THE PARTIAL PERFECTION

OF

PERMIT NO. 26901

Located in:
Sections 22, 26, and 27, T.35S., R.6W., W.M.
Sections 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 28, 29, and 30, T.36S., R.5W., W.M.
Sections 13, 23, 24, 25, and 26, T.36S., R.6W., W.M.
Josephine County, Oregon

August 24, 2001

APPLICATION NO. 34141
PERMIT NO. 26901

Prepared For:

City of Grants Pass
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

Prepared By:

Gary D. Wicks, PE, PLS
WICKS ENGINEERING & SURVEYING
311 N.E. "D" Street
Grants Pass, Oregon 97526

Tel: (541) 479-3436
Fax: (541) 479-1014

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PERMITTEE:

City of Grants Pass
Water Department
101 N.W. "A" Street
Grants Pass, Oregon 97526

Tel: (541) 474-6355

SOURCE:
Rogue River

TYPE OF USE:
Municipal

DIVERSION POINTS

Four 12" diameter ductile iron pipes and turbine pumps that manifold into a 36 inch diameter ductile iron pipe which conveys water to the water treatment plant. All four pipes are located in the NE1/4NW1/4 of Section 20, T.36S., R.5W., W.M. at a point 317 feet South and 1668 feet West of the SSE Corner of the J. Jones DLC No.38.

DIVERSION WORKS DESCRIPTION:

The diversion works are located at the water treatment plant and currently consist of four turbine pumps with spaces for two additional pumps that can be installed when required by increased demands. These pumps have 12" diameter ductile iron intakes and 12" diameter outlets that are connected by a manifold system to a 36" diameter ductile iron pipe which conveys water to the filtration and treatment processes within the plant.

Pumps: (Worthington) Peerless Single Stage
Size = 15HH3401-1
SN = VTP-56844
65 TDH @ 1760 rpm = 3200 gpm
Intake & Discharge size = 12"
Motors: U.S. Electric
Model = 404TP WPI Type RV
75 HP max RPM = 1780
440 volts 3 phase @ 60 hz.

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DISTRIBUTION SYSTEM

There are two 300 hp and three 250 hp pumps (see Table A, pg. 6) on the discharge side of the treatment plant which initially convey treated water into the service area delivery system. The service area is bounded by the Urban Growth Boundary, but also includes two areas near the Merlin Landfill and the North Valley Industrial Park. Approximately 131 miles of pipelines distribute the treated water to the City's customers, eight reservoirs, (see Table B, pg. 7) and ten booster pump stations (see Table A, pg. 6).

SYSTEM CAPACITY:

The current peak instantaneous demand is 28.63cfs as determined by flow meters at the treatment plant. 12.5cfs of this flow rate has already been certified per Certificate No. 15839 with a priority date of 1888. The City of Grants Pass wishes to partially perfect the remaining 16.13cfs as a portion (64.5%) of the 25cfs permitted per Permit No. 26901 with a priority date of July 19, 1960.

PLACE OF USE:

The current water service boundary is shown on the accompanying plat. The majority of the water usage occurs within, but is not limited to, the service area shown. For example, the city sells water that is delivered via trucks for users located outside the service area for domestic, irrigation, and industrial usages.

Service Area:

T35S, R6W
Sec 22: SE1/4SW1/4
Sec 26: NE1/4
Sec 27: NE1/4, NE1/4NW1/4, N1/2SE1/4

T36S, R5W
Sec 5: S1/2NW1/4, SW1/4
Sec 6: SW1/4NE1/4, NW1/4NW1/4, S1/2NW1/4, E1/2SW1/4, SE1/4
Sec 7: NE1/4, E1/2NW1/4, SW1/4SW1/4, E1/2SW1/4, SE1/4
Sec 8: Entire Section
Sec 9: W1/2NW1/4, W1/2SW1/4
Sec 16: NW1/4, SW1/4, W1/2SE1/4
Sec 17, 18, 19, and 20: Entire Section
Sec 21: W1/2NE1/4, NW1/4, SW1/4, W1/2SE1/4
Sec 28: SW1/4NW1/4, NW1/4SW1/4
Sec 29: NE1/4, N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4
Sec 30: N1/2NE1/4, NW1/4, W1/2SW1/4

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Service Area (continued):

T36S, R6W
Sec 13: E1/2NE1/4,SW1/4SE1/4, E1/2SE1/4
Sec 23: E1/2NE1/4, SE1/4
Sec 24: NE1/4, NE1/4NW1/4, S1/2NW1/4, SW1/4, SE1/4
Sec 25: N1/2NE1/4, S1/2SE1/4
Sec 26: NE1/4NE1/4

LIFT:

The water service area contains eight pressure zones. The elevation range within the service area ranges from 880 feet to 1560 feet.

PERMIT CONDITIONS:

The only permit condition is one which limits the right to use water from the Rogue River to those periods when the flow at the mouth of the Rogue River is greater than 735cfs.

PRIORITY DATE:

July 19, 1960

REMARKS:

O.A.R. 690-320-0040 : Incremental Perfection of a Municipal Water Right requires the quantity of water diverted, by month, for the preceeding three years. This information is provided in Table C, pg. 7, for the years 1997 through 2001 to date. It is also required that a plan be provided that shows how the municipal supplier intends to develop successive increments of its water right. This information is being provided as an attachment of the City of Grants Pass Water Distribution Master Plan prepared by West Yost & Associates in January, 2001, which includes a System Map showing the existing and proposed future pipelines.

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CERTIFICATIONS:

An inspection of the water usage completed by me on August 7, 2001 has disclosed that it was completed under terms and conditions of Permit No. 26901. The information in this report and represented on the accompanying plat is correct to the best of my knowledge.

Gary D. Wicks

Gary D. Wicks, C.W.R.E. 194

I, William A. Peterson, Jr., Water Superintendent for the City of Grants Pass, agree to the findings of Gary D. Wicks, C.W.R.E. 194, and do submit this site report and plat as our claim of partial perfection of the beneficial use of the water of the Rogue River as provided under the terms and conditions of Permit No. 26901.

William A Peterson Jr

William A. Peterson, Jr.
Water Superintendent

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TABLE A: EXISTING PUMPS

Pumping Station Name	Number of Pumps	Pump Motor Size and Speed (hp/rpm)	Capacity of Each Pump (gpm)
Treatment Plant Influent (river to plant)	4	75/1,760	3,200
		75/1,760	3,200
		75/1,760	3,200
		75/1,760	3,200
Treatment Plant Effluent (plant to system)	5	300/1,775	3,500
		300/1,775	3,500
		250/1,760	3,500
		250/1,760	3,500
		200/1,750	2,600
Lawnridge	4	25/1,750	400
		50/1,750	1,000
		50/1,750	1,000
		100/1,750	2,000
Madrone	3	60/1,750	2,000
		40/1,750	1,200
		30/1,750	900
Champion	3	50/1,750	800
		150/1,750	2,300
		100/1,750	1,600
Starlite	4	15/3,500	60
		30/1,760	450
		60/1,760	1,050
		30/1,760	450
Hefley	4	7.5/3,500	40
		15/3,500	120
		60/3,500	600
		60/3,500	600
North Valley	3	7.5/3,500	70
		30/3,500	500
		30/3,500	500
Hilltop	3	5/3,600	100
		7.5/3,600	150
		40/3,600	750
New Hope	4	30/3,600	350
		30/3,600	350
		30/3,600	350
		150/1,800	2,000
Harbeck Heights	3	5/3,600	90
		5/3,600	90
		50/3,600	1,200
Laurelridge	3	15/3,500	290
		15/3,500	290
		75/3,500	1,000

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TABLE B: EXISTING RESERVOIRS

Reservoir Number	Capacity (mg)	Bottom Elevation (ft)	Overflow Elevation (ft)
3	3.5	1089.5	1108.5
4	0.75	1216	1240
5	3.5	1079.5	1108.5
6	3.5	1211	1240
8	2.0	1341	1370
11	4.5	1080.1	1108.5
13	0.08	1510	1520
15	1.2	1374	1403

TABLE C: GRANTS PASS WATER USE (million gallons)

Month	1997	1998	1999	2000	2001
January	87.91	93.22	99.40	99.66	96.75
February	83.86	84.16	85.77	96.60	89.45
March	94.84	98.10	96.72	98.66	103.69
April	105.02	102.28	107.36	122.31	113.30
May	160.28	115.06	168.25	152.93	209.16
June	179.80	182.79	231.70	235.27	231.08
July	222.84	262.24	273.79	245.08	
August	227.17	261.13	243.19	262.95	
September	139.81	210.97	210.25	192.61	
October	104.40	130.17	160.87	139.96	
November	92.84	95.80	108.96	99.03	
December	92.58	104.47	115.01	95.83	
Total	1591.35	1740.39	1901.27	1840.89	843.43

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Hello Mr. Amundson,

I have attached a document listing the items we discussed during our telephone conversation yesterday. Clarification of these issues will enable us to prepare a Proposed Final Order for Extension of Time for each of Grants Pass' three pending permits.

If you have any questions or wish to discuss further, please feel free to contact me at (503) 986-0808.

Thank you again for you assistance,
Lisa

Lisa J. Juul
Water Rights Specialist
Water Rights & Adjudications Division
Oregon Water Resources Department
725 NE Summer Street, Suite A
Salem, Oregon 97301-1271

Phone # (503) 986-0808
FAX # (503) 986-0901
E-Mail Address: Lisa.J.JUUL@wrd.state.or.us
Homepage/Website Address: http://www.wrd.state.or.us

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City of Grants Pass

Appl #S-34141 / Permit #S-26901
Appl #S-41672 / Permit #S-45827
Appl #S-64732 / Permit #S-47346

---

1. What is the maximum instantaneous rate diverted for beneficial municipal purposes to date under *each* permit:

- **Appl #S-34141 / Permit #S-26901**
  (permitted rate = 25.0 cfs from Rogue River.... *provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.*)

  _____ cfs out of 25.0 cfs used to date for beneficial municipal purposes.

- **Appl #S-41672 / Permit #S-45827**
  (permitted rate = 25.0 cfs from Rogue River)

  _____ cfs out of 25.0 cfs used to date for beneficial municipal purposes.

- **Appl #S-64732 / Permit #S-47346**
  (permitted rate = 25.0 cfs from Rogue River)

  _____ cfs out of 25.0 cfs used to date for beneficial municipal purposes.

NOTE: You may provide updated information regarding your maximum instantaneous rate of water used for municipal purposes... if that figure has increased since your extension applications were submitted back in February 2003.

---

2. Do all three permits share the same point of diversion? (If no, additional information describing any work specific to development of each permit is necessary.)

---

3. How does the City utilize all of its water rights?
   ☐ Please provide a list describing which certificates/permits are currently being used to meet water demands.
   ☐ Please describe why any certificates/permits are not yet being used. Is this related to growth of the community and the associated demands for water?
   ☐ Is any one certificate/permit used as primary source of water over the others?
   ☐ Are any held only for redundancy or emergency back-up purposes?

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- ☐ Are there any seasonal availability issues that limit use?

4. Pages 1 through 4 of the City's Water Management Plan (June 2002) states the Max Day Demand at Full Buildout will be 21 million gallons per day (21 mgd = 32.5 cfs).

   • In what year is Full Buildout expected to occur? Please describe any factors that support this forecast.

   • Grants Pass holds 87.5 cfs of water rights. If only 32.5 cfs of water is needed at Full Buildout as indicated in the Water Management Plan, what's going to happen to the remainder of the water rights? Why is the remaining water (being 55.0 cfs) needed?

   • Is more time beyond the year 2020 needed to fully develop all of the rights? For each permit, you should request the date by which full beneficial use of water can reasonably be accomplished. *(NOTE: If one permit will be fully developed before development of others begins, the requested extension dates do not have to match.)*

   Please indicate the anticipated date by which each permit listed below will be completely developed (full permitted quantity of water used for beneficial municipal purposes).

   - ☐ **Appl #S-34141 / Permit #S-26901**: October 1, _____
   - ☐ **Appl #S-41672 / Permit #S-45827**: October 1, _____
   - ☐ **Appl #S-64732 / Permit #S-47346**: October 1, _____

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City of Grants Pass Water FIltration Plant Instanteous Flow Data for the period of July 1, 2003 to August 29, 2005. Includes only days where the treatment plant was running at maximum capacity - 4 Intakes for over 4 hours in a day.

Date:	P-1 Hours:	P-2 Hours:	P-3 Hours:	P-4 Hours:	Peak Rate in GPM:	Hours at Peak Rate
7/1/2003	14.50	14.00	14.50	5.00	13900	5.00
7/2/2003	6.75	13.75	11.25	14.50	13900	6.75
7/3/2003	6.50	11.50	13.00	13.00	13900	6.50
7/4/2003	14.50	8.25	14.50	14.50	13900	8.25
7/7/2003	14.50	13.75	14.50	4.50	13900	4.50
7/8/2003	11.50	6.75	14.25	14.25	13900	6.75
7/9/2003	14.00	14.75	14.75	4.75	13900	4.75
7/10/2003	14.75	9.75	14.50	11.25	13900	9.75
7/11/2003	14.75	14.50	14.75	10.75	13900	10.75
7/12/2003	6.25	12.25	14.50	14.75	13900	6.25
7/14/2003	7.00	14.75	14.75	14.75	13900	7.00
7/15/2003	12.50	8.00	14.25	14.25	13900	8.00
7/16/2003	14.75	14.75	10.75	10.25	13900	10.25
7/17/2003	11.75	14.75	14.75	10.00	13900	10.00
7/18/2003	15.00	15.00	12.25	8.00	13900	8.00
7/19/2003	14.75	10.00	12.75	12.75	13900	10.00
7/20/2003	14.75	14.75	14.75	5.25	13900	5.25
7/21/2003	13.75	13.75	13.75	11.50	13900	11.50
7/22/2003	12.25	13.75	13.75	13.50	13900	12.25
7/23/2003	14.75	14.75	14.75	11.25	13900	11.25
7/24/2003	14.25	14.75	14.75	10.50	13900	10.50
7/25/2003	14.50	14.25	14.00	6.75	13900	6.75
7/26/2003	14.50	5.50	14.50	14.50	13900	5.50
7/27/2003	8.50	14.25	14.25	10.25	13900	8.50
7/28/2003	14.50	15.50	15.50	11.75	13900	11.75
7/30/2003	15.75	15.75	7.50	15.75	13900	7.50

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information taken from City of Grants Pass Water Filtration Plant daily records and from SWTR reports filed with the DHS-DWP for the reporting period.

Date:	P-1 Hours:	P-2 Hours:	P-3 Hours:	P-4 Hours:	Peak Rate in GPM:	Hours at Peak Rate
7/31/2003	10.00	14.75	14.75	13.25	13900	10.00
8/1/2003	14.50	11.50	14.50	13.75	13900	11.50
8/2/2003	7.50	8.00	12.25	14.75	13900	7.50
8/6/2003	10.50	9.00	14.00	9.00	13900	0.00
8/11/2003	14.50	14.00	8.75	13.00	13900	8.75
8/13/2003	12.00	14.50	14.00	7.00	13900	7.00
8/14/2003	7.25	11.00	11.00	14.50	13900	7.25
8/15/2003	10.50	13.50	14.50	9.00	13900	9.00
8/16/2003	11.75	8.25	13.50	6.75	13900	6.75
8/17/2003	7.25	14.00	13.75	9.75	13900	7.25
8/18/2003	11.25	5.75	14.50	14.50	13900	5.75
8/19/2003	8.50	14.25	11.50	13.50	13900	8.50
8/21/2003	9.00	14.00	14.50	10.00	13900	9.00
5/6/2004	10.25	10.25	10.25	5.75	13900	5.75
7/6/2005	16.25	5.00	16.25	15.75	13900	5.00
7/17/2005	7.00	16.00	16.00	12.25	13900	7.00
7/19/2005	17.75	6.50	17.75	17.75	13900	6.50
7/22/2005	16.75	16.75	10.00	16.75	13900	10.00
7/28/2005	6.25	16.75	16.75	16.75	13900	6.25
7/29/2005	16.50	6.00	16.50	16.50	13900	6.00
7/30/2005	16.50	16.50	4.50	16.50	13900	4.50
7/31/2005	16.75	16.75	16.75	5.50	13900	5.50
8/1/2005	5.00	16.25	16.25	16.00	13900	5.00
8/3/2005	15.75	15.75	9.75	15.50	13900	9.75
8/4/2005	17.00	17.00	16.75	6.50	13900	6.50
8/5/2005	14.75	15.75	15.75	15.75	13900	14.75
8/6/2005	16.75	9.75	16.75	16.75	13900	9.75
8/7/2005	16.75	16.75	6.75	16.75	13900	6.75
8/8/2005	15.25	16.75	16.50	8.75	13900	8.75
8/9/2005	11.75	16.50	16.50	11.25	13900	11.25
8/10/2005	15.75	10.50	15.75	15.75	13900	10.50
8/11/2005	15.75	15.75	7.75	15.50	13900	7.75
8/12/2005	15.75	15.75	15.75	8.50	13900	8.50

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SALEM, OREGON

information taken from City of Grants Pass Water Filtration Plant daily records and from SWTR reports filed with the DHS-DWP for the reporting period.

Date:	P-1 Hours:	P-2 Hours:	P-3 Hours:	P-4 Hours:	Peak Rate in GPM:	Hours at Peak Rate
8/13/2005	7.25	15.75	15.75	15.75	13900	7.25
8/14/2005	15.75	5.50	15.75	15.75	13900	5.50
8/15/2005	15.75	15.75	5.00	15.75	13900	5.00
8/16/2005	15.75	15.75	15.75	9.25	13900	9.25
8/17/2005	8.25	15.75	15.75	15.75	13900	8.25
8/18/2005	15.75	6.25	15.75	15.75	13900	6.25
8/19/2005	4.50	15.75	15.75	15.75	13900	4.50
8/20/2005	15.50	15.50	15.25	7.25	13900	7.25
8/21/2005	6.25	15.50	15.50	15.50	13900	6.25
8/22/2005	15.50	5.50	15.50	15.50	13900	5.50
8/23/2005	15.00	15.00	5.75	15.00	13900	5.75
8/24/2005	15.75	15.75	15.75	5.00	13900	5.00
8/25/2005	5.25	15.75	15.75	15.75	13900	5.25
8/26/2005	15.75	5.25	15.75	15.75	13900	5.25
8/29/2005	5.00	15.25	15.25	15.25	13900	5.00

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SALEM, OREGON

information taken from City of Grants Pass Water Filtration Plant daily records and from SWTR reports filed with the DHS-DWP for the reporting period.

LAWYERS

Davis Wright Tremaine LLP

ANCHORAGE BELLEVUE LOS ANGELES NEW YORK PORTLAND SAN FRANCISCO SEATTLE SHANGHAI WASHINGTON, D.C.

NANCI KLINGER
Direct (503) 778-5213
nanciklinger@dwt.com

SUITE 2300
1300 SW FIFTH AVENUE
PORTLAND, OR 97201-5682

TEL (503) 241-2300
FAX (503) 778-5299
www.dwt.com

December 17, 2004

Ms. Lisa Juul
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-2430

Re: City of Grants Pass Permit Extensions

Dear Lisa:

This letter is in response to the Water Resources Department request for additional information on the City of Grants Pass permit extensions and our recent telephone conversation. The City of Grants Pass has begun work to update and clarify its permit extension and partial perfection request as you requested. There have been additional City planning efforts and changes in projected uses since the application was originally prepared more than two years ago that need to be included in the extension request. The City has also retained a consultant to assist in development of longer range water use planning.

We will keep you apprised of the City's progress and update you when we have an expected date for completion of the requested information. If you have any questions or concerns regarding schedule please contact me at (503) 778-5213

Sincerely,

Davis Wright Tremaine LLP

Nanci Klinger

NK:im
cc: C. Jason Canady
Rohel Admunson
Ulys Stapleton

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DEC 21 2004
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SALEM, OREGON

City of
Grants Pass
"Where The Rogue River Runs"

August 27, 2002

Ms. Lisa Juul
Water Right Permit Extension
Water Resources
158 12th Street, NE
Salem, OR 97310

Re: City of Grants Pass Municipal Water Use Permits Applications for Extension of Time and Partial Perfection of Permit No. 26901

Dear Ms. Juul:

On behalf of the City of Grants Pass we are requesting certification of 16.13 cfs of the 25 cfs permitted under Application No. 34141, Permit 26901. A site report for partial perfection of this right and a survey plat are enclosed.

We are also submitting applications for time extensions for the following municipal water use permits:

- Permit No. 26901 for 8.88 cfs with a priority date of July 19, 1960. This is the remaining portion of the permit after partial perfection.
- Permit No. 45827 for 25 cfs with a priority date of December 2, 1965.
- Permit No. 47346 for 25 cfs with a priority date of January 13, 1983.

Applications for extensions of time for each permit, a projected needs statement, and a copy of the $300 check previously submitted are enclosed.

The City of Grants Pass also holds a certificated water right (No. 15839) for 12.5 cfs for municipal use. The City's municipal water rights total 87.5 cfs. Current peak instantaneous demand is 28.63 cfs. Thus, the City has completed construction on and put to beneficial use approximately one third of its total permitted and perfected municipal water rights.

The Grants Pass water supply system currently distributes water to developed properties covering an area of more than 3,500 acres and serves a population of 23,170 within the City limits. The system includes an intake on the Rogue River, a water treatment plant, eleven booster pumping stations, eight reservoirs and 153 miles of

101 Northwest "A" Street • Grants Pass, Oregon 97526 • (541) 474-6360 • Fax (541) 479-0812

pipelines. The City began construction of the current water delivery system in 1930 and has steadily expanded the system as the area has developed. Grants Pass population growth is expected to continue at approximately 2.8% per year.

The City has made a significant planning effort to conserve water, maintain water quality in the Rogue River and plan for future demands. The City of Grants Pass has recently completed the Water Distribution System Master Plan, January 2001, Surface Water Temperature Management Plan, February 2001, and Water Management Plan, June 2002. Copies of the Water Management Plan and Water Distribution System Master Plans are included. The requested time extensions to 2020 are consistent with the planning horizons used by Grants Pass in these plans.

If you have any questions regarding these applications please contact our attorneys, Nanci Klinger at (503) 778-5213 or Rick Glick (503) 778-5210.

Very truly yours,

William A Peterson Jr

William A. Peterson, Jr.
City Manager

Enclosures:

- Site Report for Partial Perfection of Permit 26901
- Survey in Support of Partial Perfection
- Application for Extension of Time for Permit 26901
- Application for Extension of Time for Permit 45827
- Application for Extension of Time for Permit 47346
- Water Uses, Projected Needs
- Grants Pass Water Management Plan
- Grants Pass Water Distribution System Master Plan
- Resolution 3356
- "Important Information About Your Water Rates"

cc: Rohel W. Amundson, Utilities Director
Jason M. Canady, Water Treatment Plant Supervisor
Richard Glick, Davis Wright Tremaine LLP
File

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STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIPT # 54815

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION	See below
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # ☒ 24.22 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 300.00

0417 WRD MISC CASH ACCT

S 41672 – $100.00
S 64732 $100.00
S 34141 $100.00

	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)	_____			$
(New) TC162	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		$
427	OTHER (IDENTIFY) Ext. of time				$ 300.00

0437 WELL CONST. START FEE

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

_____ OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS $

0467 HYDRO ACTIVITY LIC NUMBER

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

_____ HRDRO APPLICATION _____ $

RECEIPT # 54815 DATED: 8/14/02 BY: Connie Vance

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

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SALEM, OR

APPLICATION FOR EXTENSION OF TIME
TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
NAME

101 NW "A" Street	Grants Pass	Oregon	97526	541-474-6360
ADDRESS	CITY	STATE	ZIP	PHONE

owner of record, or duly authorized agent, of Application No. 34141 Permit No. 26901, 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, _____, be extended to October 1, _____,

and/or the time in which to:

[X] 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, 2020.

NOTE: The extension of time requested should be long enough to finish the project. Should this request be approved, it will be the Department's expectation that you will complete our project within the new time period allowed. Future extensions may not be granted.

Attached is an instruction sheet to assist you in completing the information on the permit extensions application form. Oregon Water Law and Administrative Rules require this information to be considered by the Water Resources Department when reviewing a permit extension. All items must be completed or the application will be returned. Please feel free to provide the Department with any additional information that would aid us in making our decision. Please use additional sheets of paper as needed to fully respond to the questions.

After reviewing the application form and the instruction sheet, if you have any questions, please contact the Department at 1-800-624-3199, or locally in the Salem vicinity at (503)378-3739, and request assistance from the Water Rights Division, permit extensions personnel.

1. **Did water system construction/well drilling begin within the time specified in the permit? YES/NO**

Yes, the City of Grants Pass began construction of its municipal water system in 1930 and has steadily expanded the system since then. The time limit to begin construction was July 21, 1982. Chapter 2 of the Grants Pass Water Management Plan provides a history of the system expansion. A copy of the Plan is attached as Exhibit A.

2. **Has construction of diversion/appropriation works, distribution system, and use of water, if any, been accomplished consistent with the limitations and conditions of this permit? YES/NO**

Pursuant to ORS 537.230(1), the permit does not contain time sensitive conditions.

a) **Please describe how you have complied with each applicable permit condition.**
NOTE: The instruction sheet for permit extension applications provides some direction as to what is an "applicable" condition at time of permit extension review.

The permit does not contain time sensitive conditions.

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b) **If you have not complied with all applicable conditions, please explain the reasons why and indicate a date certain, in the near future, by which time you will be in compliance with applicable conditions.**

Not applicable.

3. **I have accomplished the following described works, purchases and installation of equipment necessary to the use of water under said permit:**

a) **Within the past year or, if a prior extension was authorized, during the last permit extension period:**

The following work was performed since the last permit extensions on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the Laurel Ridge Pump Station – capacity 1,450 GPM
- Addition of the Meadow Wood Pump Station – capacity: 1400 GPM
- Addition of 21.94 miles of new water mains in varying sizes
- Addition of 639 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $975,000. The value of water main extensions and pumps stations constructed by developers are not included

b) **Prior to the past year or, if a prior extension was authorized, prior to the last extension period:**

The following work was performed during the prior permit extension periods of 10/1/1994 to 10/1/1999 on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the 4.5 million gallon Denton Trail Reservoir
- Addition of New Hope Pump Station – capacity 3500 GPM
- Addition of the Harbeck Heights Pump Station – capacity 1380 GPM
- Modification of the Hefty Pump Station – capacity increased from 1000 GPM to 3200 GPM
- Addition of 19.8 miles of new water mains in varying sizes
- Addition of 800 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $4,709,600. The value of water main extensions and pumps stations added constructed by developers are not included.

c) **I have accomplished beneficial use of water under the permit to the extent of (amount of water used or acres irrigated):**

Average annual demand has increased from 3.73 to 4.5 mgd from 1995 to 2000. Chapter 3 of the Grants Pass Water Management Plan provides a summary of current and past water demand. The Water Management Plan is attached as Exhibit B.

4. **Cost of project to date**

Based on readily available information, the total capital investment from 1970 to date is greater than $24,603,859 for Permits Nos. P26901, P45827, and P47346.

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Estimated remaining cost to complete the project. Estimated future costs are presented in Grants Pass Water Distribution System Master Plan, Table 7-4.

5. **Please list the reasons why the project was not constructed, and/or water not beneficially used within permit time limits under the appropriate categories below. Please provide supporting information for each reason identified.**

a) **The project is of a size and scope that the original intent was to phase it in over a period longer than the timeframes allowed in the permit.**

The intent of the project is to increase system development as required by water demand. Chapter 3 of the Grants Pass Water Distribution Master Plan presents an analysis of past and future water demand.

b) **Financing and/or cash-flow needs to develop the project precluded completion of the project within authorized timeframes.**

c) **Good faith attempts to comply with permit conditions and/or to acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

d) **Acts of God or other unforeseen events delayed full development of the water system and use of water.**

6. **Please identify the economic market or markets to which beneficial use of water under the permit is responding.**

Domestic water supply for home occupancy. Commercial and municipal water supply for economic and city infrastructure development.

a) **Has there been any change in this market since the permit was issued?**

No. Grants Pass water use is primarily residential (64%). The industrial use has remained constant. Projected water demand and population growth is presented in Chapter 3 of the Grants Pass Water Management Plan.

b) **Have these changes, if any, affected the economic feasibility of your project?**

No.

7. **Are there other present competing demands for water in your community?**

No.

a) **Has there been any change in these demands for water since the permit was issued?**
No.

b) **Are you aware of alternative sources of water that may be able to satisfy the competing demands?**

No.

c) **Are you aware of any adverse affects on your source of water that may have been caused by recent changes in use of water in your community?**

No.

8. **Will the income or use from the water development project authorized by this permit provide reasonable returns against the investment in the project?**

Income is returned to the City through water use fees. Current water rates are shown in City Resolution 3356 and the rates are further explained in the attached brochure prepared by the city, "Important Information About Your Water Rates." The Resolution and brochure are attached as Exhibit C.

9. **If the extension request is denied, is the current level of water use economically feasible?**

No, the City of Grants Pass is dependant on surface water divisions to accommodate residential commercial and industrial growth. The community population is increasing as well as the capital demand. Loss of permitted water rights would curtail future growth in the community.

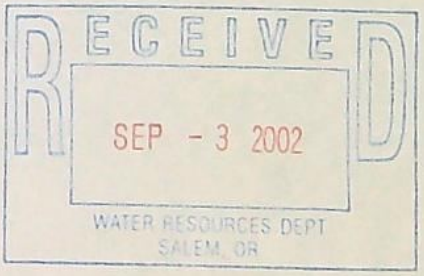
I am the permittee, or have authorization from the permittee, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for the Department to suspend processing of the request and/or reason to deny the extension.

William A Peterson Jr
Signature

28 Aug 2002
Date

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF $100 TO:

WATER RIGHT PERMIT EXTENSIONS
WATER RESOURCES
158 12TH STREET NE
SALEM, OR 97310



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WATER USES, PROJECTED NEEDS

1. POPULATION AND GROWTH:

	Current (year: 2000)	2020	2030	2040	2050	2060	2070
Population:	**23,170**	**45,000**					
Growth rate:	**2.8%**						

2. EXISTING WATER RIGHTS AND PERMITS:

Groundwater:

Permit/Application number	Description	Amount	Priority Date
	None		

Surface Water:

Permit/Application number	Description	Amount	Priority Date
	See attached Table		

Pending permits:

Permit/Application number	Description	Amount	Priority Date

3. EXISTING AND FUTURE WATER USE:

	Current (year: 2000)
Current peak demand:	**Maximum day = 10 mgd**
Current water use:	**Average annual = 4.5 mgd**

	Current (year: 2000)	2020
Peak day demand (gallons/capita/day):	420	400
Peak daily demand (MGD):	9.73 mgd	18 mgd
Average daily demand (gallons/capita/day):	191 gpcd	180
Average summer demand (gallons/capita/day)	275	260

4. EXPLANATION FOR PROJECTED GROWTH RATE:

See Chapter 3 Grants Pass Water Management Plan regarding population growth trends.

5. EXPLANATION FOR EXTENSION TIME PERIOD:

The time period coincides with the planning used in the City of Grants Pass Water Distribution System Master Plan and Water Management Plan.

-Aug '08 02 01:48p Eric Wade (541) 479-6765 p.4

For your convenience

The Equalizer Payment Plan lets you pay an average amount all year long, which is helpful for people who travel or are on a budget.

The program has three criteria: you must have had water service for at least 12 months, year-round service at the address and a good payment record. Owners and tenants, residential and commercial customers are eligible.

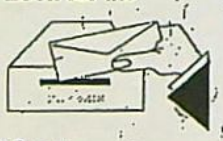
Here's how the program works: The city Finance Office calculates your annual cost of water, based on the previous year's usage. That amount is divided into 11 equal monthly payments.

Twelve months after you sign up, the city either owes you money because you used less water than your average, or you owe the city because you used more. Your budget payment amount may be adjusted at this time.

For more information, or an application, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

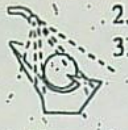
Save a stamp

When paying your water bill, you can save a stamp or gasoline by using one of the 11 utility pay stations located at businesses around town. Look for the boxes at:

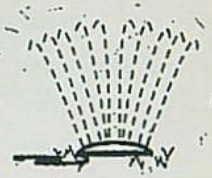


- Fred Meyer
- Albertsons
- Pacific Power
- Evergreen Federal Savings & Loan
- Family Bank of Commerce
- Valley of the Rogue Bank
- Southern Oregon Federal Credit Union
- U.S. National Bank
- Western Bank
- First Interstate Bank, 1701 NE 6th St. and Williams Highway branches.

Conservation tips



1. Check every faucet and toilet for leaks.
2. Take shorter showers and shallow baths.
3. Turn off the water while scraping dishes, brushing teeth or washing hands.
4. Keep a jug of drinking water in the refrigerator.
5. Don't use the toilet as a trash can to flush away tissues, gum wrappers, etc.
6. Fill the dishwasher and clothes washer to capacity.
7. Use a broom, not a hose, to clean the driveway.
8. Use a bucket of water to wash the car and a hose to rinse it off.
9. Water the lawn, not the sidewalk or the street.
10. In summer, water lawns and gardens before 10 a.m. to lessen evaporation.



More information

If you would like more information about the new rates or your Water Utility, please call City Administration at 474-6360, or the Utility Department at 474-6355, between 8 a.m. and 5 p.m. Monday-Friday.

For billing questions, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

For after-hours water emergencies, call 474-6370.

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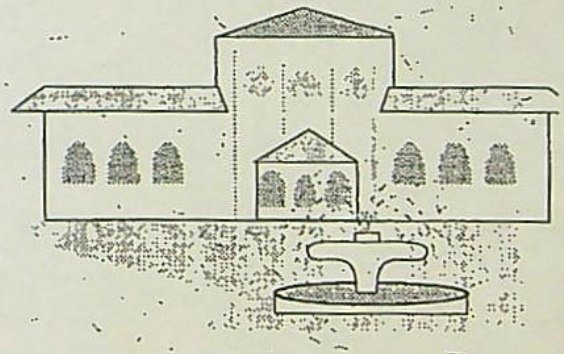
Recycled Paper

PRINTED WITH SOY INK

Important Information About Your Water Rates



City of
Grants Pass

P.5
(541) 479-6765
Eric Wade
-Aug '08 02 01:48p

Water rates change

Last fall, the Grants Pass City Council began studying the Water Utility's rates to determine how to pay for rising costs. In December, the Council held a public hearing on three rate-increase proposals prepared by city staff. After listening to residents who testified at the hearing, the Council directed the staff to come up with other alternatives. In February, the Council held another hearing to consider the new proposals, including a bond issue. On March 3, the Council approved a 12 percent, across-the-board increase in water rates.

Why the increase

Water rates have not changed since 1983. The Water Utility has controlled expenses by increasing automation, contracting services and postponing maintenance. But rising costs, more expensive water quality testing, and needed repairs were due to push expenses beyond income. To avoid a deficit or reduction in services, the City Council authorized a rate increase.

What your money buys

The new rates will allow your Water Utility to *continue* to provide:

- High quality water, meeting all state and federal water quality standards, at a low cost (1 cent buys 10 gallons of water).

- Adequate water flow for fire protection. The city's excellent fire-insurance rating lowers insurance premiums for homeowners and businesses.

- Exceptional customer service through service-line, small-main, and meter replacement programs.

- Investment in the system, including repairs to the riverbank at the Water Filtration Plant, which is eroding.

How to read your bill

Your water bill is a combination of up to four different charges:

- The **minimum monthly charge** is for the first 500 cubic feet (3,740 gal.) of water, based on the meter size (most residences have a 3/4-inch meter).
- For every 100 cubic feet (748 gal.) above the base amount, you pay a **commodity charge.**
- Service to customers at higher elevations is more costly because the water must be pumped uphill. Those customers pay an additional **service level charge** to offset pumping expenses.
- Businesses with a separate water line for their fire sprinkler systems pay a **standby fire protection** charge.

Bills prorated

The new rates began on March 4. The enclosed bill reflects both the old and new rates. The new rates apply only to that portion of the billing period after March 3.

The new rates

Minimum Monthly Charge
Includes first 500 cubic feet of water

Meter size	Amount
3/4 inch or less	$12.30
1 inch	32.25
1.5 inches	72.25
2 inch	128.00
3 inch	288.60
4 inch	504.60

Commodity Charge
Per 100 cubic feet over 500 cf

Customer class	Amount
Single family residence	$0.87
Multi-Family residence	0.55
Commercial/Industrial	0.57
Public	0.71

Service Level Charge
Monthly, based on elevation

Level	Amount
1	$0.00
2	0.08
3	0.16
4	0.24
5	0.32

Standby Fire Protection
Monthly, per size of line

Line size	Amount
2 inch	$ 5.00
3 inch	11.45
4 inch	20.15
6 inch	45.35
8 inch	80.60
10 inch	126.00
12 inch	181.40

Sample water bill at new rates

CITY OF
GRANTS PASS
101 N.W. "A" Street
Grants Pass, Oregon 97526
(503) 474-6365

4/26/93

METER NUMBER	SERVICE FROM	SERVICE TO	READINGS PREVIOUS	READINGS CURRENT	100 CU. FT USED	DESCRIPTION	AMOUNT/CHARGE
W2717	03/18/93	04/18/93	677	683	6	WATER-RESIDENT	13.25

MINIMUM CHARGE (500 CU FT MAX) 12.30
COMMODITY RATE OVER 500 CU FT .87/100 CU FT
LEVEL 2 RATE OVER 500 CU FT .08/100 CU FT

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SALEM, OR

101 NW A ST
1026-001700 004314-01

BUDGET PLAN MONTHLY	ARREARS	TOTAL DUE	PAY THIS AMOUNT
			13.25

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RESOLUTION NO. 3356

A RESOLUTION OF THE COUNCIL OF THE CITY OF GRANTS PASS AMENDING RESOLUTION NO. 1587 AND RESOLUTION NO. 1618 TO ESTABLISH FEES, RATES AND CHARGES FOR UTILITY SERVICES, PURSUANT TO ORDINANCE NO. 4352.

WHEREAS:

1. The City desires to maintain or improve services to its customers; and

2. Repairs must be made to protect the community's investment by stabilizing the north bank of the Rogue River; and

3. Rates should be adjusted to reflect the cost of service.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Grants Pass that water rates be increased as authorized by Council, and Resolution No. 1587 be amended by deleting Section 12(A)(1), and Resolution No. 1618 be amended by deleting Section 12(A)(3) and adding new Sections 12((A)(1) and 12(A)(3). Those Sections to read as follows:

Section 12(A)(1) Class A-1 service (inside the City limits)

(Minimum Charge)

Meter Size Inches	Minimum Charge Per Month
3/4 or less	$ 12.30
1	32.25
1-1/2	72.25
2	128.00
3	288.60
4	504.60
6	1,135.40
8	2,018.50
10	3,153.90
12	4,541.60

(Commodity Charge)

Quantity in Cubic Feet	Commodity Charge Per 100 Cu. Ft. Above 500 Cu. Ft.
501 and up	$ 0.87 Single Family Res.
	0.55 Multi-Family Res.
	0.57 Commercial/Indust.
	0.71 Public

Service Level Charges
Service Level #1 - $0.00
Service Level #2 - $0.08
Service Level #3 - $0.16
Service Level #4 - $0.24
Service Level #5 - $0.32

Section 12(A)(3) Schedule of Minimum Charges per month for standby fire protection service.

Size of Service Charge (in inches)	Minimum Per Month
2	$ 5.00
3	11.45
4	20.15
6	45.35
8	80.60
10	126.00
12	181.40

This Resolution shall be effective as of the 4th day of March, 1993.

ADOPTED by the Council of the City of Grants Pass, Oregon, in regular session this 3rd day of March, 1993.

SUBMITTED to and approved by the Mayor of the City of Grants Pass, Oregon, this 8th day of March, 1993.

Linda A. Anderson
Mayor

ATTEST:

Joanne M. Stumpf
Finance Director

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SALEM, OR

COPY

August 6, 2002

City of Grants Pass
"Where The Rogue River Runs"

Water Resources Division
Attn: Lisa Juul
Commerce Building
158 12th Street, NE
Salem, OR 97301-4172

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WATER RESOURCES DEPT
SALEM, OR

RE: WATER PERMIT EXTENSION APPLICATION

Dear Ms. Juul:

The City of Grants Pass is in the process of collecting all of the information needed to complete the forms necessary to submit our applications for the extension of the following water permits: Permit No. 26901 for 25 cfs with a priority date of July 19, 1960, Permit No. 45827 for 25 cfs with a priority date of December 2, 1965, and Permit No. 64732 for 25 cfs with a priority date of January 13, 1983.

Enclosed you will find our application fee for these permit extensions totaling $300.00 ($100.00 for each permit). If you need any further information at this time, you may contact the Water Treatment Plant Supervisor and myself at the numbers and addresses listed below. Applications will follow as soon as they are completed.

Rohel Amundson, City of Grants Pass Utilities Director

101 NW "A" St.
Grants Pass, OR 97526

541-474-6355 ext. 6328

ramundson@ci.grants-pass.or.us

Jason Canady, City of Grants Pass Water Treatment Plant Supervisor

101 NW "A" St.
Grants Pass, OR 97526

541-474-6353

jasonm11_68@charter.net

Thank you for your assistance in this matter.

Yours truly,

Rohel W. Amundson

Rohel W. Amundson
Utilities Director

cc: Richard Glick, Davis Wright & Tremaine
Jason Canady, Water Treatment Plant Supervisor
William A. Peterson, Jr., City Manager
File

STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIPT # 54815

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE #_____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION	See below
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # ☒24-22 OTHER: (IDENTIFY) ☐ _____ TOTAL REC'D $ 300.00

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SALEM, OREGON

0417 WRD MISC CASH ACCT

S 41672 – $100.00
S 64732 $100.00
S 34141 $100.00

	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)	_____	$
(New) TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$

		EXAM FEE		RECORD FEE
	WATER RIGHTS:			
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	$

427 OTHER (IDENTIFY) Ext. of time $300.00

0437 WELL CONST START FEE

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

_____ OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302	LOTTERY PROCEEDS	$

0467 HYDRO ACTIVITY LIC NUMBER

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

RECEIPT # 54815 DATED: 8/14/02 BY: Connie Vance

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

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SALEM, OREGON

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SALEM, OR

APPLICATION FOR EXTENSION OF TIME
TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
NAME

101 NW "A" Street	Grants Pass	Oregon	97526	541-474-6360
ADDRESS	CITY	STATE	ZIP	PHONE

owner of record, or duly authorized agent, of Application No. 34141 Permit No. 26901, 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, _____, be extended to October 1, _____,

and/or the time in which to:

[X] 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, 2020.

NOTE: The extension of time requested should be long enough to finish the project. Should this request be approved, it will be the Department's expectation that you will complete our project within the new time period allowed. Future extensions may not be granted.

Attached is an instruction sheet to assist you in completing the information on the permit extensions application form. Oregon Water Law and Administrative Rules require this information to be considered by the Water Resources Department when reviewing a permit extension. All items must be completed or the application will be returned. Please feel free to provide the Department with any additional information that would aid us in making our decision. Please use additional sheets of paper as needed to fully respond to the questions.

After reviewing the application form and the instruction sheet, if you have any questions, please contact the Department at 1-800-624-3199, or locally in the Salem vicinity at (503)378-3739, and request assistance from the Water Rights Division, permit extensions personnel.

1. **Did water system construction/well drilling begin within the time specified in the permit? YES/NO**

Yes, the City of Grants Pass began construction of its municipal water system in 1930 and has steadily expanded the system since then. The time limit to begin construction was July 21, 1982. Chapter 2 of the Grants Pass Water Management Plan provides a history of the system expansion. A copy of the Plan is attached as Exhibit A.

2. **Has construction of diversion/appropriation works, distribution system, and use of water, if any, been accomplished consistent with the limitations and conditions of this permit? YES/NO**

Pursuant to ORS 537.230(1), the permit does not contain time sensitive conditions.

a) **Please describe how you have complied with each applicable permit condition.**
NOTE: The instruction sheet for permit extension applications provides some direction as to what is an "applicable" condition at time of permit extension review.

The permit does not contain time sensitive conditions.

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b) **If you have not complied with all applicable conditions, please explain the reasons why and indicate a date certain, in the near future, by which time you will be in compliance with applicable conditions.**

Not applicable.

3. **I have accomplished the following described works, purchases and installation of equipment necessary to the use of water under said permit:**

a) **Within the past year or, if a prior extension was authorized, during the last permit extension period:**

The following work was performed since the last permit extensions on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the Laurel Ridge Pump Station – capacity 1,450 GPM
- Addition of the Meadow Wood Pump Station – capacity: 1400 GPM
- Addition of 21.94 miles of new water mains in varying sizes
- Addition of 639 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $975,000. The value of water main extensions and pumps stations constructed by developers are not included

b) **Prior to the past year or, if a prior extension was authorized, prior to the last extension period:**

The following work was performed during the prior permit extension periods of 10/1/1994 to 10/1/1999 on Grant's Pass Permit Nos. P26901, P45827, and P47346:

- Addition of the 4.5 million gallon Denton Trail Reservoir
- Addition of New Hope Pump Station – capacity 3500 GPM
- Addition of the Harbeck Heights Pump Station – capacity 1380 GPM
- Modification of the Hefty Pump Station – capacity increased from 1000 GPM to 3200 GPM
- Addition of 19.8 miles of new water mains in varying sizes
- Addition of 800 new service connections – commercial and residential
- Extensive filtration plant improvements/modifications

Grant's Pass total direct cost for this work was $4,709,600. The value of water main extensions and pumps stations added constructed by developers are not included.

c) **I have accomplished beneficial use of water under the permit to the extent of (amount of water used or acres irrigated):**

Average annual demand has increased from 3.73 to 4.5 mgd from 1995 to 2000. Chapter 3 of the Grants Pass Water Management Plan provides a summary of current and past water demand. The Water Management Plan is attached as Exhibit B.

4. **Cost of project to date**

Based on readily available information, the total capital investment from 1970 to date is greater than $24,603,859 for Permits Nos. P26901, P45827, and P47346.

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Estimated remaining cost to complete the project. Estimated future costs are presented in Grants Pass Water Distribution System Master Plan, Table 7-4.

5. **Please list the reasons why the project was not constructed, and/or water not beneficially used within permit time limits under the appropriate categories below. Please provide supporting information for each reason identified.**

a) **The project is of a size and scope that the original intent was to phase it in over a period longer than the timeframes allowed in the permit.**

The intent of the project is to increase system development as required by water demand. Chapter 3 of the Grants Pass Water Distribution Master Plan presents an analysis of past and future water demand.

b) **Financing and/or cash-flow needs to develop the project precluded completion of the project within authorized timeframes.**

c) **Good faith attempts to comply with permit conditions and/or to acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.**

d) **Acts of God or other unforeseen events delayed full development of the water system and use of water.**

6. **Please identify the economic market or markets to which beneficial use of water under the permit is responding.**

Domestic water supply for home occupancy. Commercial and municipal water supply for economic and city infrastructure development.

a) **Has there been any change in this market since the permit was issued?**

No. Grants Pass water use is primarily residential (64%). The industrial use has remained constant. Projected water demand and population growth is presented in Chapter 3 of the Grants Pass Water Management Plan.

b) **Have these changes, if any, affected the economic feasibility of your project?**

No.

7. **Are there other present competing demands for water in your community?**

No.

a) **Has there been any change in these demands for water since the permit was issued?**
No.

b) **Are you aware of alternative sources of water that may be able to satisfy the competing demands?**

No.

c) **Are you aware of any adverse affects on your source of water that may have been caused by recent changes in use of water in your community?**

No.

8. **Will the income or use from the water development project authorized by this permit provide reasonable returns against the investment in the project?**

Income is returned to the City through water use fees. Current water rates are shown in City Resolution 3356 and the rates are further explained in the attached brochure prepared by the city, "Important Information About Your Water Rates." The Resolution and brochure are attached as Exhibit C.

9. **If the extension request is denied, is the current level of water use economically feasible?**

No, the City of Grants Pass is dependant on surface water divisions to accommodate residential commercial and industrial growth. The community population is increasing as well as the capital demand. Loss of permitted water rights would curtail future growth in the community.

I am the permittee, or have authorization from the permittee, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for the Department to suspend processing of the request and/or reason to deny the extension.

William A Peterson Jr
Signature

28 Aug 2002
Date

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF $100 TO:

WATER RIGHT PERMIT EXTENSIONS
WATER RESOURCES
158 12TH STREET NE
SALEM, OR 97310

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SALEM, OR

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a) **The project is of a size and scope that the original intent was to phase it in over a period longer than the timeframes allowed in the permit.**

The intent of the project is to increase system development as required by water demand. Chapter 3 of the Grants Pass Water Distribution Master Plan presents an analysis of past and future water demand.

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6. **Please identify the economic market or markets to which beneficial use of water under the permit is responding.**

Domestic water supply for home occupancy. Commercial and municipal water supply for economic and city infrastructure development.

a) **Has there been any change in this market since the permit was issued?**

No. Grants Pass water use is primarily residential (64%). The industrial use has remained constant. Projected water demand and population growth is presented in Chapter 3 of the Grants Pass Water Management Plan.

b) **Have these changes, if any, affected the economic feasibility of your project?**

No.

7. **Are there other present competing demands for water in your community?**

No.

a) **Has there been any change in these demands for water since the permit was issued?**
No.

b) **Are you aware of alternative sources of water that may be able to satisfy the competing demands?**

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WATER USES, PROJECTED NEEDS

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1. POPULATION AND GROWTH:

	Current (year: 2000)	2020	2030	2040	2050	2060	2070
Population:	**23,170**	**45,000**					
Growth rate:	**2.8%**						

2. EXISTING WATER RIGHTS AND PERMITS:

Groundwater:

Permit/Application number	Description	Amount	Priority Date
		None	

Surface Water:

Permit/Application number	Description	Amount	Priority Date
		See attached Table	

Pending permits:

Permit/Application number	Description	Amount	Priority Date

3. EXISTING AND FUTURE WATER USE:

	Current (year: 2000)
Current peak demand:	**Maximum day = 10 mgd**
Current water use:	**Average annual = 4.5 mgd**

	Current (year: 2000)	2020
Peak day demand (gallons/capita/day):	420	400
Peak daily demand (MGD):	9.73 mgd	18 mgd
Average daily demand (gallons/capita/day):	191 gpcd	180
Average summer demand (gallons/capita/day)	275	260

4. EXPLANATION FOR PROJECTED GROWTH RATE:

See Chapter 3 Grants Pass Water Management Plan regarding population growth trends.

5. EXPLANATION FOR EXTENSION TIME PERIOD:

The time period coincides with the planning used in the City of Grants Pass Water Distribution System Master Plan and Water Management Plan.

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SALEM, OREGON

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RESOLUTION NO. 3356

A RESOLUTION OF THE COUNCIL OF THE CITY OF GRANTS PASS AMENDING RESOLUTION NO. 1587 AND RESOLUTION NO. 1618 TO ESTABLISH FEES, RATES AND CHARGES FOR UTILITY SERVICES, PURSUANT TO ORDINANCE NO. 4352.

WHEREAS:

1. The City desires to maintain or improve services to its customers; and

2. Repairs must be made to protect the community's investment by stabilizing the north bank of the Rogue River; and

3. Rates should be adjusted to reflect the cost of service.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Grants Pass that water rates be increased as authorized by Council, and Resolution No. 1587 be amended by deleting Section 12(A)(1), and Resolution No. 1618 be amended by deleting Section 12(A)(3) and adding new Sections 12((A)(1) and 12(A)(3). Those Sections to read as follows:

Section 12(A)(1) Class A-1 service (inside the City limits)

(Minimum Charge)

Meter Size Inches	Minimum Charge Per Month
3/4 or less	$ 12.30
1	32.25
1-1/2	72.25
2	128.00
3	288.60
4	504.60
6	1,135.40
8	2,018.50
10	3,153.90
12	4,541.60

(Commodity Charge)

Quantity in Cubic Feet	Commodity Charge Per 100 Cu. Ft. Above 500 Cu. Ft.
501 and up	$ 0.87 Single Family Res.
	0.55 Multi-Family Res.
	0.57 Commercial/Indust.
	0.71 Public

Service Level Charges
Service Level #1 - $0.00
Service Level #2 - $0.08
Service Level #3 - $0.16
Service Level #4 - $0.24
Service Level #5 - $0.32

Section 12(A)(3) Schedule of Minimum Charges per month for standby fire protection service.

Size of Service Charge (in inches)	Minimum Per Month
2	$ 5.00
3	11.45
4	20.15
6	45.35
8	80.60
10	126.00
12	181.40

This Resolution shall be effective as of the 4th day of March, 1993.

ADOPTED by the Council of the City of Grants Pass, Oregon, in regular session this 3rd day of March, 1993.

SUBMITTED to and approved by the Mayor of the City of Grants Pass, Oregon, this 5th day of March, 1993.

Gordon A. Anderson
Mayor

ATTEST:

Joanne M. Stumpf
Finance Director

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SALEM, OR

P.5
(541) 479-6765
Aug 08 02 01:48p Eric Wade

Water rates change

Last fall, the Grants Pass City Council began studying the Water Utility's rates to determine how to pay for rising costs. In December, the Council held a public hearing on three rate-increase proposals prepared by city staff. After listening to residents who testified at the hearing, the Council directed the staff to come up with other alternatives. In February, the Council held another hearing to consider the new proposals, including a bond issue. On March 3, the Council approved a 12 percent, across-the-board increase in water rates.

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Why the increase

Water rates have not changed since 1983. The Water Utility has controlled expenses by increasing automation, contracting services and postponing maintenance. But rising costs, more expensive water quality testing, and needed repairs were due to push expenses beyond income. To avoid a deficit or reduction in services, the City Council authorized a rate increase.

What your money buys

The new rates will allow your Water Utility to *continue* to provide:

- High quality water, meeting all state and federal water quality standards, at a low cost (1 cent buys 10 gallons of water).

- Adequate water flow for fire protection. The city's excellent fire-insurance rating lowers insurance premiums for homeowners and businesses.

- Exceptional customer service through service-line, small-main, and meter replacement programs.

- Investment in the system, including repairs to the riverbank at the Water Filtration Plant, which is eroding.

How to read your bill

Your water bill is a combination of up to four different charges:

- The **minimum monthly charge** is for the first 500 cubic feet (3,740 gal.) of water, based on the meter size (most residences have a 3/4-inch meter).
- For every 100 cubic feet (748 gal.) above the base amount, you pay a **commodity charge.**
- Service to customers at higher elevations is more costly because the water must be pumped uphill. Those customers pay an additional **service level charge** to offset pumping expenses.
- Businesses with a separate water line for their fire sprinkler systems pay a **standby fire protection** charge.

Bills prorated

The new rates began on March 4. The enclosed bill reflects both the old and new rates. The new rates apply only to that portion of the billing period after March 3.

The new rates

Minimum Monthly Charge
Includes first 500 cubic feet of water

Meter size	Amount
3/4 inch or less	$12.30
1 inch	32.25
1.5 inches	72.25
2 inch	128.00
3 inch	288.60
4 inch	504.60

Commodity Charge
Per 100 cubic feet over 500 cf

Customer class	Amount
Single family residence	$0.87
Multi-Family residence	0.55
Commercial/Industrial	0.57
Public	0.71

Service Level Charge
Monthly, based on elevation

Level	Amount
1	$0.00
2	0.08
3	0.16
4	0.24
5	0.32

Standby Fire Protection
Monthly, per size of line

Line size	Amount
2 inch	$ 5.00
3 inch	11.45
4 inch	20.15
6 inch	45.35
8 inch	80.60
10 inch	126.00
12 inch	181.40

Sample water bill at new rates

CITY OF
GRANTS PASS
101 N.W. "A" Street
Grants Pass, Oregon 97526
(503) 474-6305

4/26/93

METER NUMBER	SERVICE FROM	SERVICE TO	READINGS PREVIOUS	READINGS CURRENT	100 CU FT USED	DESCRIPTION	AMOUNT/CHARGE
W2717	03/18/93	04/18/93	677	683	6	WATER-RESIDENT	13.25

MINIMUM CHARGE (500 CU FT MAX) 12.30
COMMODITY RATE OVER 500 CU FT .87/100 CU FT
LEVEL 2 RATE OVER 500 CU FT .08/100 CU FT

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SALEM, OR

101 NW A ST
1026-001700 004314-01

BUDGET PLAN MONTHLY	ARREARS	TOTAL DUE	PAY THIS AMOUNT
			13.25

Aug 08 02 01:48p Eric Wade (541) 479-6765 p.4

For your convenience

The Equalizer Payment Plan lets you pay an average amount all year long, which is helpful for people who travel or are on a budget.

The program has three criteria: you must have had water service for at least 12 months, year-round service at the address and a good payment record. Owners and tenants, residential and commercial customers are eligible.

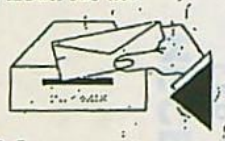
Here's how the program works: The city Finance Office calculates your annual cost of water, based on the previous year's usage. That amount is divided into 11 equal monthly payments.

Twelve months after you sign up, the city either owes you money because you used less water than your average, or you owe the city because you used more. Your budget payment amount may be adjusted at this time.

For more information, or an application, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

Save a stamp

When paying your water bill, you can save a stamp or gasoline by using one of the 11 utility pay stations located at businesses around town. Look for the boxes at:



- Fred Meyer
- Albertsons
- Pacific Power
- Evergreen Federal Savings & Loan
- Family Bank of Commerce
- Valley of the Rogue Bank
- Southern Oregon Federal Credit Union
- U.S. National Bank
- Western Bank
- First Interstate Bank, 1701 NE 6th St. and Williams Highway branches.

Conservation tips

1. Check every faucet and toilet for leaks.

2. Take shorter showers and shallow baths.
3. Turn off the water while scraping dishes, brushing teeth or washing hands.
4. Keep a jug of drinking water in the refrigerator.
5. Don't use the toilet as a trash can to flush away tissues, gum wrappers, etc.
6. Fill the dishwasher and clothes washer to capacity.
7. Use a broom, not a hose, to clean the driveway.
8. Use a bucket of water to wash the car and a hose to rinse it off.
9. Water the lawn, not the sidewalk or the street.
10. In summer, water lawns and gardens before 10 a.m. to lessen evaporation.

More information

If you would like more information about the new rates or your Water Utility, please call City Administration at 474-6360, or the Utility Department at 474-6355, between 8 a.m. and 5 p.m. Monday-Friday.

For billing questions, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

For after-hours water emergencies, call 474-6370.

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SALEM, OR

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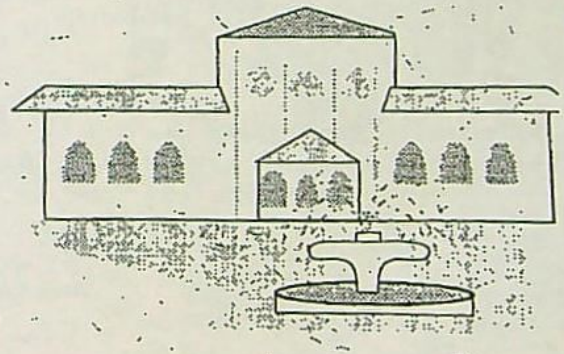
Important Information About Your Water Rates



City of
Grants Pass

City of
Grants Pass
"Where The Rogue River Runs"

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SALEM, OREGON

August 27, 2002

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WATER RESOURCES DEPT

Ms. Lisa Juul
Water Right Permit Extension
Water Resources
158 12th Street, NE
Salem, OR 97310

Re: City of Grants Pass Municipal Water Use Permits Applications for Extension of Time and Partial Perfection of Permit No. 26901

Dear Ms. Juul:

On behalf of the City of Grants Pass we are requesting certification of 16.13 cfs of the 25 cfs permitted under Application No. 34141, Permit 26901. A site report for partial perfection of this right and a survey plat are enclosed.

We are also submitting applications for time extensions for the following municipal water use permits:

- Permit No. 26901 for 8.88 cfs with a priority date of July 19, 1960. This is the remaining portion of the permit after partial perfection.
- Permit No. 45827 for 25 cfs with a priority date of December 2, 1965.
- Permit No. 47346 for 25 cfs with a priority date of January 13, 1983.

Applications for extensions of time for each permit, a projected needs statement, and a copy of the $300 check previously submitted are enclosed.

The City of Grants Pass also holds a certificated water right (No. 15839) for 12.5 cfs for municipal use. The City's municipal water rights total 87.5 cfs. Current peak instantaneous demand is 28.63 cfs. Thus, the City has completed construction on and put to beneficial use approximately one third of its total permitted and perfected municipal water rights.

The Grants Pass water supply system currently distributes water to developed properties covering an area of more than 3,500 acres and serves a population of 23,170 within the City limits. The system includes an intake on the Rogue River, a water treatment plant, eleven booster pumping stations, eight reservoirs and 153 miles of

101 Northwest "A" Street • Grants Pass, Oregon 97526 • (541) 474-6360 • Fax (541) 479-0812

pipelines. The City began construction of the current water delivery system in 1930 and has steadily expanded the system as the area has developed. Grants Pass population growth is expected to continue at approximately 2.8% per year.

The City has made a significant planning effort to conserve water, maintain water quality in the Rogue River and plan for future demands. The City of Grants Pass has recently completed the Water Distribution System Master Plan, January 2001, Surface Water Temperature Management Plan, February 2001, and Water Management Plan, June 2002. Copies of the Water Management Plan and Water Distribution System Master Plans are included. The requested time extensions to 2020 are consistent with the planning horizons used by Grants Pass in these plans.

If you have any questions regarding these applications please contact our attorneys, Nanci Klinger at (503) 778-5213 or Rick Glick (503) 778-5210.

Very truly yours,

William A Peterson Jr

William A. Peterson, Jr.
City Manager

Enclosures:

- Site Report for Partial Perfection of Permit 26901
- Survey in Support of Partial Perfection
- Application for Extension of Time for Permit 26901
- Application for Extension of Time for Permit 45827
- Application for Extension of Time for Permit 47346
- Water Uses, Projected Needs
- Grants Pass Water Management Plan
- Grants Pass Water Distribution System Master Plan
- Resolution 3356
- "Important Information About Your Water Rates"

cc: Rohel W. Amundson, Utilities Director
Jason M. Canady, Water Treatment Plant Supervisor
Richard Glick, Davis Wright Tremaine LLP
File

COPY

August 6, 2002

City of Grants Pass
"Where The Rogue River Runs"

Water Resources Division
Attn: Lisa Juul
Commerce Building
158 12th Street, NE
Salem, OR 97301-4172

RECEIVED
SEP - 3 2002
WATER RESOURCES DEPT
SALEM, OR

RE: WATER PERMIT EXTENSION APPLICATION

Dear Ms. Juul:

The City of Grants Pass is in the process of collecting all of the information needed to complete the forms necessary to submit our applications for the extension of the following water permits: Permit No. 26901 for 25 cfs with a priority date of July 19, 1960, Permit No. 45827 for 25 cfs with a priority date of December 2, 1965, and Permit No. 64732 for 25 cfs with a priority date of January 13, 1983.

Enclosed you will find our application fee for these permit extensions totaling $300.00 ($100.00 for each permit). If you need any further information at this time, you may contact the Water Treatment Plant Supervisor and myself at the numbers and addresses listed below. Applications will follow as soon as they are completed.

Rohel Amundson, City of Grants Pass Utilities Director

101 NW "A" St.
Grants Pass, OR 97526

541-474-6355 ext. 6328

ramundson@ci.grants-pass.or.us

Jason Canady, City of Grants Pass Water Treatment Plant Supervisor

101 NW "A" St.
Grants Pass, OR 97526

541-474-6353

jasonm11_68@charter.net

Thank you for your assistance in this matter.

RECEIVED
FEB 26 2003
WATER RESOURCES DEPT
SALEM, OREGON

Yours truly,

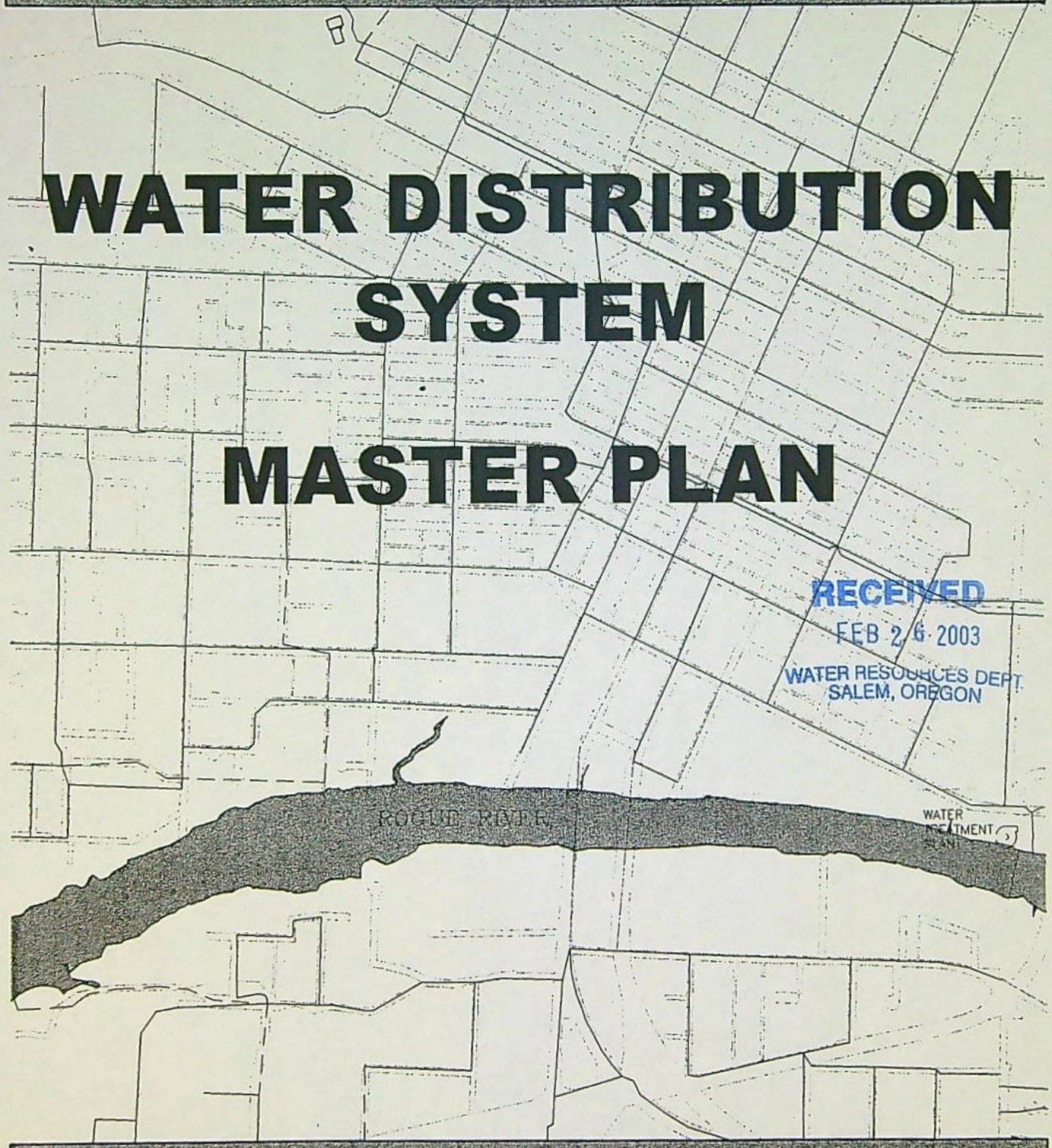
Rohel W. Amundson
Utilities Director

cc: Richard Glick, Davis Wright & Tremaine
Jason Canady, Water Treatment Plant Supervisor
William A. Peterson, Jr., City Manager
File

CITY OF GRANTS PASS

WATER DISTRIBUTION SYSTEM MASTER PLAN

RECEIVED
FEB 26 2003
WATER RESOURCES DEPT
SALEM, OREGON



WEST YOST & ASSOCIATES
JANUARY 2001

CITY OF GRANTS PASS

Water Management Plan

RECEIVED
FEB 26 2003
WATER RESOURCES DEPT.
SALEM, OREGON

WEST YOST & ASSOCIATES
Consulting Engineers

June 2002

RECEIVED
SEP - 3 2002
WATER RESOURCES DEPT
SALEM, OR

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

January 13, 2003

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS OR 97526

REFERENCE: Permit #S26901 (Application File #S34141) 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 Extension Applicant:

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 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 Department is preparing to implement the new Division 315 extension rules. As part of this process, we assessed pending permit extension applications and determined there is not sufficient information to meet the requirements of the new Division 315 standards. The Department, therefore, must receive the following:

1. **Please complete and return the enclosed new "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits."** ***Note that the Department has also enclosed a copy of your previously submitted Extension of Time application and related attachments for your use.***

   You may also 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

Please submit this information by **April 13, 2003**.

If you have an urgent need for the Department to process your extension request, please describe in a cover letter the circumstances that necessitate prompt review.

You may contact me by telephone at 503-378-8455, extension 272 if you have any questions concerning the new rules or our request for additional information.

Sincerely,

Lisa J. Juul
Water Rights Specialist
Water Rights Section

enclosures

cc: Application File #S34141 (Permit #S26901)

RECEIVED
JUL 18 2014
WATER RESOURCES DEPT
SALEM, OREGON

R6W R5W

T35S T36S T37S

Horris Creek · Soldier Creek · Morris Creek · Louse Creek · Lloyd Dr · Soldier Creek Rd · Donaldson Rd · Monument Dr · Fairgrounds Rd · Highland Ave

East Fork Shunk Creek · West Fork Jones Creek · Toney Canal · Demaray Canal · Blue Gilliam · Shunk Creek · Vannoy Creek · Lathrop Creek · Hillside Lateral · Riverside Lateral · East Fork Jones Creek · Jones Creek · Tokay Canal · Leigh Lateral · Main Canal · Sand Creek · South Canal · Highline Canal · Redwood Hwy · Redwood Ave · Granview Ave · Fruitdale Creek · South Highline Canal · Jewett Creek · Allen Creek · New Hope Rd · Delaney Dr · Old Ferguson Dr · Baum Slough · Jerome Prairie Rd · Brimmer Gap Rd

NW Savage St · NE Savage St · NW Bridge St · SW Bridge St · NE Bridge St · NW 6th St · NE 6th St · NW 7th St · NE 7th St · NW 8th St · NE 8th St · NW 9th St · NE 9th St · NW 10th St · NE 10th St · NW 11th St · NE 11th St · NW 12th St · NE 12th St · NW 13th St · NE 13th St · NW 14th St · NE 14th St · NW 15th St · NE 15th St · NW 16th St · NE 16th St · NW 17th St · NE 17th St · NW 18th St · NE 18th St · Redwood Hwy · Redwood Ave · Grants Pass Pkwy · Rogue River Hwy · Grandview Ave · New Hope Rd · Old Ferguson Dr

5 · 99 · 199 · 238

LEGEND

- Place of Use (POU)
- Water Service Area Boundaries
- City of Grants Pass City Limits
- Major Roads
- Railroads
- Watercourses
- Waterbodies

DISCLAIMER
This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

MAP NOTES:
Date: May 27, 2014
Data Sources: City of Grants Pass, OWRD, US BLM, ESRI

Certified Water Rights Examiner
#78185WRE
Theodore R. Ressler
June 29, 2007
STATE OF OREGON
EXPIRES: 12/31/2014

Partial Perfection Claim of Beneficial Use Place of Use Map

Permit S-26901 (Application S-34141)

Water Right in the Name of City of Grants Pass

N

0 2,000 4,000 6,000

1 inch = 4,000 feet

GSI Water Solutions, Inc.

Document Path: P:\Portland\536-Grants Pass\001-COBU Addendum\Project_GIS\Project_mxds\PP_COBU_Permit_S26901_POU_Map.mxd

Oregon Water Resources Department
Water Right Services Division

Application for Extension of Time

In the Matter of the Application for an Extension of Time for Permit S-26901, modified by Permit Amendment T-8032, Water Right Application S-34141, in the name of the City of Grants Pass	))))	PROPOSED FINAL ORDER

Permit Information

Application File S-34141/ Permit S-26901, modifed by Permit Amendment T-8032
Basin 15 – Rogue Basin / Watermaster District 14
Date of Priority: July 19, 1960

Authorized Use of Water

Source of Water:	The Rogue River, a tributary of Pacific Ocean
Purpose or Use:	Municipal Use
Maximum Rate:	25.0 Cubic Feet per Second (cfs), further limited to use when the flow of the Rogue River at the mouth is greater than 735 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 S-26901, water right Application S-34141.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to complete construction from October 1, 1999 to October 1, 2040.
- Grant an extension of time to apply water to full beneficial use from October 1, 1999 to October 1, 2040.
- Make the extension of time subject to certain conditions as set forth below.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
City – City of Grants Pass
ODFW – Oregon Department of Fish and Wildlife
PFO – Proposed Final Order
WMCP – Water Management and Conservation Plan

Units of Measure
cfs – cubic feet per second
gpm – gallons per minute
mgd – million gallons per day

AUTHORITY

Generally, see ORS 537.230 and OAR Chapter 690 Division 315.

ORS 537.230(2) provides in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order and allow an extension to complete construction or perfect a water right. 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 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. Under specific circumstances, the Department may condition extensions of time for municipal water

use permit holders to provide that use of the undeveloped portion of the permit maintains the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

OAR 690-315-0090(3) authorizes the Department, under specific 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 WMCP Plan under OAR Chapter 690, Division 86 which grants access to water under this extended permit.

FINDINGS OF FACT

Background

1. Permit S-26901 was granted by the Department on September 20, 1960. The permit authorizes the use of up to 25.0 cfs of water from the Rogue River, a tributary of the Pacific Ocean, for municipal use. It specified that construction of the water development project was to be completed by October 1, 1964, and that complete application of water was to be made on or before October 1, 1964.

2. On August 20, 1998, the Department approved Permit Amendment T-8032 (Special Order Volume52, Page 759) authorizing an additional point of diversion under Permit S-26901 located 2400 Feet South and 540 Feet West From the NE Corner of Section 24; Township 36 South, Range 6 West.

3. Seven prior permit extensions have been granted for Permit S-26901. The most recent extension request resulted in the completion dates for construction and full application of water being extended to October 1, 1999.

4. Due to an ongoing permit extension rulemaking, in 1998 the Department stopped processing pending Applications for Extension of Time for municipal and quasi-municipal permits, and did not require municipal and quasi-municipal water use permit holders to submit Applications for Extension of Time during the rulemaking process.

5. Municipal and quasi-municipal water use permit extension rules OAR 690-315-0070 through 690-315-0100 became effective on November 1, 2002. The rules were subsequently amended, and the amended rules became effective on November 22, 2005.

6. On September 3, 2002, City of Grants Pass (City) submitted an "Application for Extension of Time" to the Department requesting the time to complete construction and the time to apply water to full beneficial use under the terms and conditions of Permit S-26901, modified by Permit Amendment T-8032 (herein referred to as simply Permit S-26901) be extended from October 1, 1999 to October 1, 2020.

7. Notification of the City's Application for Extension of Time for Permit S-26901 was published in the Department's Public Notice dated March 4, 2003. No public comments were received regarding the extension application.

8. On February 26, 2003, and on December 23, 2005, the City submitted supplemental information and updates to their pending Application for Extension of Time.

9. On September 19, 2013, the permit holder submitted additional information to supplement and update their Application for Extension of Time. The amendment requested the extended time to complete construction be changed from October 1, 2020 to October 1, 2040, and the extended time to apply water to full beneficial use be changed from October 1, 2020 to October 1, 2040.

Review Criteria for Municipal and 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(1). This determination shall consider the applicable requirements of ORS 537.230[1], 537.630[2] and/or 539.010(5)[3]

Complete Extension of Time Application *[OAR 690-315-0080(1)(a)]*

10. On September 3, 2002, the Department received a completed application for extension of time and the fee specified in ORS 536.050.

Start of Construction *[OAR 690-315-0080(1)(b)]*

11. Permit S-26901 was issued prior to June 29, 2005; therefore, the permit holder is not required to provide evidence of actions taken to begin actual construction of the project.[4]

Duration of Extension *[OAR 690-315-0080(1)(c) and (1)(d)]*

Under OAR 690-315-0080(1)(c) and (1)(d), in order to approve an extension of time for municipal and quasi-municipal water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

12. The remaining work to be accomplished under Permit S-26901 consists of replacing the existing water treatment plant including intake facilities, the building, process equipment, and piping; expanding the treatment capacity to 46 cfs; and completing construction and applying water to full beneficial use.

13. As of December 23, 2005, the permit holder has diverted 17.2 cfs of the 25.0 cfs of water authorized under Permit S-26901 for municipal purposes. There is an undeveloped portion of 7.8 cfs of water under Permit S-26901 as per OAR 690-315-0010(6)(g).

14. In addition to the 25.0 cfs of water authorized under Permit S-26901 the City holds the following municipal use water right certificate and permits:

---

[1] ORS 537.230 applies to surface water permits only.

[2] ORS 537.630 applies to ground water permits only.

[3] ORS 537.010(5) applies to surface water and ground water permits.

[4] Section 5, Chapter 410, Oregon Laws 2005 and OAR 690-315-0070(1)(d).

- Permit S-45827 for 25.0 cfs of water from the Rogue River;
- Permit S-47346 for 25.0 cfs of water from the Rogue River; and
- Certificate 15839 for 12.5 cfs of water from the Rogue River.

15. The City has 87.5 cfs of water rights from the Rogue River. Permit S-26901 is limited to when flows at the mouth of the Rogue River exceed 735 cfs. Permits S-45827 and S-47346 are junior in priority date to instream Water Right Certificate 59847 which has a minimum flow of 735 cfs.

16. The City of Grants Pass relies on water from the Rogue River as its sole source of water. According to the City, groundwater supply development in the region is not likely feasible at the capacity required to serve their water system. The City also lacks emergency interconnections with neighboring water system providers as there are not major municipal water provides within a reasonable proximity to the City. Due to the long-term supply options, the City has obtained abundant water rights to accommodate long-term growth.

17. The City is currently utilizing 12.5 cfs under Certificate 15839, 17.2 cfs under Permit S-26901, and 1.3 cfs under Permit S-47346 to meet its current demand. The City anticipates full development of Permit S-26901 by the year 2040, Permit S-45827 by 2065, and Permit S-47346 by 2090.

18. According to the City, in 2010, the population within the service boundary of City of Grants Pass (which includes North Valley) was 34,639. The City estimates the population will increase at a growth rate of 1.96 percent per year, reaching an estimated population of 61,843 by the year 2040.

19. The City's peak water demand within its service area boundaries was 31 cfs in 2010.

20. According to the City, their peak instantaneous diversion rate is projected to be 46 cfs of water by the year 2040.

21. Full development of Permit S-26901 is needed to address the present and future water demand of City of Grants Pass.

22. The City's request for an extension of time until October 1, 2040, to complete construction and to apply water to full beneficial use under the terms of Permit S-26901 is both reasonable and necessary.

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), (3)(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.

23. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame.

24. During the last extension period, being October 1, 1994 to October 1, 1999, the City accomplished the following:

- Added a 4.5 MG reservoir and the New Hope Pump Station (3,500 gpm capacity);
- Added the Harbeck Heights Pump Station (1,380 gpm capacity);
- Modified the Hefly Pump Station to increase its capacity from 2,200 gpm to 3,200 gpm;
- Added 19.8 miles of new water mains; and
- Added 800 new service connections, residential and commercial.

25. Since October 1, 1999, the City has accomplished the following:

- Added the Laurel Ridge Pump Station (1,450 gpm capacity);
- Added the addition of the Meadow Wood Pump Station (1,400 gpm capacity);
- Added 55.7 miles of new water mains;
- Added 2839 new service connections, residential and commercial;
- Completed filtration plant improvements and modifications;
- Completed master planning documents, a vulnerability assessment and a rate study;
- Made improvements to equipment and plant processes, the intake structure, and reservoirs;
- Made miscellaneous structural repairs and improvements (mobile generator, bulk water station, hydrants);
- Completed improvements to the Hilltop Pump Station;
- Repaired and/or modified certain other pump stations; and
- Completed the construction of the Panoramic Loop Station and the William's Crossing Pump Station.

26. According to the City, as of September 19, 2013, they have invested approximately $186,130,600, which is about 79 percent of the total projected cost for complete

development of this project. The City estimates a $50,000,000 investment is needed for the completion of this project. The Department recognizes that while some of these investment costs are unique to construction and development solely under S-26901, other costs included in this accounting are not partitioned out for S-26901 because (1) they are incurred under the development of a water supply system jointly utilized under other rights held by the City, and/or (2) they are generated from individual activities counted towards reasonable diligence and good faith as listed in ORS 690-315-0080(4) which are not associated with just this permit, but with the development and exercise of all the City's water rights.

27. Since the issuance of Permit S-26901 on September 20, 1960, the City has diverted 17.2 cfs of the 25.0 cfs allowed for beneficial municipal purposes under the terms of this permit.

28. The Department has considered the City's compliance with conditions, and did not identify any concerns.

Financial Investment and Cost to Appropriate and Apply Water to a Beneficial Purpose *[OAR 690-315-0080(3)(b)]*

29. According to the City, as of September 19, 2013, they have invested approximately $186,130,600, which is about 79 percent of the total projected cost for complete development of this project. The City estimates a $50,000,000 investment is needed for the completion of this project.

The Market and Present Demands for Water *[OAR 690-315-0080(3)(d)]*

30. As described in Findings 13 through 21 above, the City has indicated, and the Department finds that the City must rely on full development of their Permit S-26901.

31. The City estimates an annual population growth rate of 1.96 percent per year over a 30 year period, being the years 2010 to 2040.

32. Given the current water supply situation of the City, including current and expected demands, there is a market and present demand for the water to be supplied under Permit S-26901.

33. OAR 690-315-0090(3) requires the Department to place a condition on this extension of time to provide that diversion of water beyond 17.2 cfs under Permit S-26901 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan(s) (WMCP) under OAR Chapter 690, Division 86 that grants access to a greater rate of diversion of water under the permit consistent with OAR 690-086-0130(7). A "Development Limitation" condition" is specified under Item 1 of the "Conditions" section of this PFO to meet this requirement.

Fair Return Upon Investment *[OAR 690-315-0080(3)(e)]*

34. Use and income from the permitted water development project would result in reasonable returns upon the investment made in the project to date.

Other Governmental Requirements *[OAR 690-315-0080(3)(f)]*

35. Delays caused by any other governmental requirements in the development of this project have not been identified.

Events which Delayed Development under the Permit *[OAR 690-315-0080(3)(g)]*

36. Delay of development under Permit S-26901 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.

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 stream flow 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 stream flow would be a limiting factor for the subject listed fish species.

37. The pending municipal Application for Extension of Time for Permit S-26901 was delivered to ODFW on November 9, 2011, for ODFW's review under OAR-690-315-0080.

38. Notification that the pending municipal Application for Extension of Time for Permit S-26901 was delivered to ODFW for review was sent to the City on November 10, 2011.

39. Notification that the pending municipal Application for Extension of Time for Permit S-26901 was delivered to ODFW for review was published in the Department's Public Notice dated November 22, 2011. No public comments were received regarding this notice.

40. On March 13, 2013, the Department received ODFW's Division 315 Fish Persistence Evaluation for Permit S-26901.

41. Summary and Excerpts of Advice from ODFW:

> Use of water under the portion of this permit that is undeveloped as of the date of the extension final order should be conditioned to maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit. ODFW has determined that the Rogue River will be affected by water use under this permit. ODFW's advice is based on the best available information and existing data.
>
> ODFW recognizes that long term climatic variations will affect the amount of water

in the system. In favorable water years, fish populations tend to increase and in unfavorable water years, fish populations contract. The long term objective for a listed species is to have the population increase to a sustainable level over time and to be able to maintain itself through natural fluctuations in the environment.

The target flows, in Table 1, below, are ODFW's recommended flows measured near Agness, Oregon, for maintaining the persistence of listed fish species in the Rogue River. ODFW advises the Water Resources Department to develop conditions that allow municipalities to meet their water needs while maintaining the persistence of listed fish species.

The severity of the measures to be taken by the water user should reflect the degree to which the recommended streamflows are being missed and the percentage of water that is withdrawn by the municipality as compared to the overall streamflow level, and may be adjusted by the ratio of water withdrawn to water being returned directly to the Rogue River through effluent discharges.

Table 1

ODFW'S RECOMMENDED FISH PERSISTENCE TARGET FLOWS IN THE ROGUE RIVER NEAR AGNESS, OREGON	
Month	Cubic Feet per Second
January 1 – April 30	935
May 1 – June 30	3800
July 1 – Sept 10	2000
September 11 – December 31	935

Streamflow Measurement Point

After analysis of flow records and how the USACE stores and releases water from its facilities to meet Rogue River target flows, ODFW has determined measuring flows on the Rogue River at the Agness gage is sufficient to ensure that target flows are met in order to maintain the persistence of listed fish species. Therefore, ODFW advises the Department to establish the Agness gage as the measurement point for determining whether target flows are being met for this municipal permit extension.

42. Department's Findings Based on Review of ODFW's Advice:

There is an undeveloped portion of 7.8 cfs of water under Permit S-26901 as per OAR 690-315-0010(6)(g). Authorization to incrementally expand use of water under this permit beyond 17.2 cfs up to the permitted quantity of 25.0 cfs can only be granted through the Department's review and approval of the municipal water user's future WMCPs (OAR 690-086). When ODFW's recommended target flows are not

met, the Department's proposed conditions may result in a reduction in the amount of the undeveloped portion of water under Permit S-26901 that can be diverted. The proposed conditions in this extension of time are based on the following findings:

a. The target flows needed to maintain the persistence of fish must be measured in the Rogue River near Agness, Oregon, USGS Gage No.14372300, or its equivalent.

b. When target flows are not met in the Rogue River, use of the undeveloped portion of the permit may need to be reduced in proportion to the degree to which the recommended streamflows are being missed. ODFW's formula for determining the percent shortfall, or missed target flows in the Rogue River is defined as:

$$1 - (Q / Q_T),$$

where Q is the flow at the point of interest, and Q_T is the target flow (from Table 1).

c. ODFW's advice recognized that the use of the undeveloped portion of the permit represents about 0.5 % of the existing stream flow.

d. ODFW's advice recognizes that municipalities may return a certain amount of flow to a river or stream through their effluent discharge. If the withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, then ODFW recommends that any reduction to use of the undeveloped portion of Permit S-26901 should be adjusted by the monthly estimated percentage of the difference between the total water withdrawals and their return flows. Therefore, consistent with ODFW's advice, when appropriate, the Department proposes to adjust any reduction by a "Consumptive Use Percentage," as generally determined by (1-[total municipal wide returned flows/ total municipal wide diverted flows]).

43. The Department finds, based on ODFW's advice, that in the absence of conditions, the use of the undeveloped portion of Permit S-26901 will not maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit, and as a result of the use of the undeveloped portion of the permit, stream flows would be a limiting factor for the listed fish species.

44. Based on ODFW's advice, the Department proposes to require conditions to maintain, in the portions of the waterways affected by water use under Permit S-26901, the persistence of fish species listed as sensitive, threatened or endangered under state or federal law. (See Item 2 of the "Conditions" section of this PFO.)[5]

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[5] The Department, based on advice from the ODFW, has determined that the conditions contained in this PFO are appropriate for this extension. In other municipal extensions that require conditions to maintain the persistence of listed species, different conditions may be warranted depending on the advice received from ODFW and communications with the particular extension applicant.

45. On November 14, 2013, ODFW notified the Department that the proposed "Conditions to Maintain the Persistence of Listed Fish" for Permit S-26901 are consistent with their advice.

46. On November 15, 2013, the Department notified the City as per OAR 690-315-0080(2)(f) of ODFW's written advice and the "Conditions to Maintain the Persistence of Listed Fish" proposed in this PFO for the pending municipal Application for Extension of Time for Permit S-26901.

CONCLUSIONS OF LAW

1. The City 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 537.230(2).

2. The City 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 otherwise required by OAR 690-315-0080(1)(b).

4. Pursuant to ORS 540.510(3)(a), water under Permit S-26901 may be applied to beneficial use on land to which the right is not appurtenant.

5. The time requested to complete construction and apply water to full beneficial use is reasonable, as required by OAR 690-315-0080(1)(c).

6. Completion of construction and full application of water to beneficial use can be completed by October 1, 2040[6], as required by OAR 690-315-0080(1)(d).

7. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and the fair return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the water right permit holder had no control, and the Department has determined that the City has shown good cause for an extension of time to complete construction and to apply the water to full beneficial use pursuant to OAR 690-315-0080(1)(e).

8. As required by OAR 690-315-0090(3) and as described in Finding 33, above, and specified under Item 1 of the "Conditions" section of this PFO, the diversion of water

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[6] 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 Department, for issuance of a water right certificate; or (2) continue to appropriate water under the water right permit until the Department conducts a survey and issues a water right certificate under ORS 537.625.

beyond 17.2 cfs under Permit S-26901 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that grants access to a greater rate of diversion of water under the permit consistent with OAR 690-086-0130(7).

9. In accordance with OAR 690-315-0080(1)(f), and as described in Findings 37 through 46, above, the persistence of listed fish species will not be maintained in the portions of the waterways affected by water use of the undeveloped portion under this municipal use permit, in the absence of special conditions. Therefore, the diversion of water beyond 17.2 cfs under Permit S-26901 will be subject to the conditions specified under Item 2 of the "Conditions" section of this PFO.

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

Extend the time to complete construction under Permit S-26901 from October 1, 1999 to October 1, 2040.

Extend the time to apply the water to beneficial use under Permit S-26901 from October 1, 1999 to October 1, 2040.

Subject to the following conditions:

CONDITIONS

1. **Development Limitations**
Diversion of any water beyond 17.2 cfs under Permit S-26901 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of diversion of water under the permit consistent with OAR 690-086-0130(7). The required WMCP shall be submitted to the Department within 3 years of this Final Order. The amount of water used under Permit S-26901 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, on file with the Department.

The deadline established in the Extension Final Order for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of the final order may also meet the WMCP submittal requirements of other Department orders.

2. Conditions to Maintain the Persistence of Listed Fish

A. Fish Persistence Target Flows

a. Fish persistence target flows in the Rogue River as recommended by ODFW are in Table 2, below; flows are to be measured in the Rogue River near Agness, Oregon (USGS Gage Number 14372300, or its equivalent).

Table 2

FISH PERSISTENCE TARGET FLOWS ON THE ROGUE RIVER MEASURED AT USGS GAGE 14372300 NEAR AGNESS, OREGON	
Month	Cubic Feet per Second
January 1 – April 30	935
May 1 – June 30	3800
July 1 – Sept 10	2000
September 11 – December 31	935

b. Alternate Streamflow Measurement Point
The location of a target flow measurement point as established in these Conditions to Maintain the Persistence of Listed Fish may be revised if the City provides evidence in writing that ODFW has determined that persistence flows may be measured at an alternate streamflow measurement point and provides an adequate description of the location of the alternate streamflow measurement point, and the Water Resources Director concurs in writing.

B. Determining Water Use Reductions – Generally
The maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition is determined in proportion to the amount by which the flows shown in Table 2 are missed based on a seven day rolling average of mean daily flows measured in the Rogue River at the specified gage location. The percent of missed target flows is defined as:

$$(1 - [Q_A / Q_T]) \times 100\%,$$

where Q_A is the actual flow measured at the designated location based on the seven day rolling average, and Q_T is the target flow (from Table 2).

The percent by which the target flow is missed applied to the undeveloped portion of the permit provides the maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition, and is defined as:

$$E - (E \times \% \text{ missed target flow}),$$

where E is the undeveloped portion of the permit as of this extension, being 7.8 cfs.

The maximum amount of undeveloped portion of the permit that can be diverted as a result of this fish persistence condition may be adjusted by a Consumptive Use Percentage, when applicable, as per Item 2.C., below.

When $Q_A \geq Q_T$, the amount of the undeveloped portion of the permit that can be diverted would not need to be reduced as a result of this fish persistence condition.

C. Consumptive Use Percentages for Utilization in Rogue River Calculations

a. Initial Consumptive Use Percentages
The City of Grants Pass has not identified any Consumptive Use Percentages based on the return of flows to the Rogue River through effluent discharge. Thus, at this time the City may not utilize Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

b. First Time Utilization of Consumptive Use Percentages
Utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition may begin after the issuance of the Final Order for this extension of time.

First time utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that withdrawal points and effluent discharges are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting monthly Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages. Utilization of Consumptive Use Percentages is subject to an approval period described in 2.C.f., below.

Consumptive Use Percentages submitted to the Department for review must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The proposed Consumptive Use Percentages should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Consumptive Use Percentages Updates
Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.C.f., below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.C.f., below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month of the year and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

d. Changes to Wastewater Technology and/or Wastewater Treatment Plant Practices

If there are changes to either wastewater technology or the practices at the City's wastewater treatment facility resulting in 25% or more reductions in average monthly return flows to the Rogue River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Rogue River as compared to the average monthly wastewater return flows from the 10 year period just prior to date of the first approval period described in 2.C.f., below.

If such changes to either wastewater technology or the practices at the City's wastewater treatment facility occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

e. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.C.c., above, and receiving the Water Resources Director's concurrence with the proposed Consumptive Use Percentages.

f. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that ends 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates

as evidenced by the record, unless sections 2.C.d., or 2.C.e. (above) are applicable.

Consumptive Use Percentages (first time utilization or updates) which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

D. Examples

Example 1: Target flow met.

On June 15, the last seven mean daily flows in the Rogue River at the Agness gage were 4100, 4000, 4100, 4000, 3900, 3800 and 3800 cfs. The seven day rolling average (Q_A) is 3957 cfs. The amount of the undeveloped portion of the permit that can be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 3800 cfs target flow (Q_T) for June 15. In this example, $Q_A \geq Q_T$.

Example 2: Target flow missed.

Step 1: If on June 15, the average of the last seven mean daily flows (Q_A) was 2600 cfs, and the target flow (Q_T) is 3800, then the target flow would be missed by 31.6 %.

$$(1 - (2600 / 3800)) \times 100\% = 31.6\%$$

Step 2: Assuming the Consumptive Use Percentage is 62.2%[7] during the month of June and the utilization of this percentage is authorized, and the target flow is missed by 31.6% (from Step 1), then the amount of the undeveloped portion of the permit that could be diverted would be reduced by 19.7%.

$$(62.2\% \times 31.6\%) / 100 = 19.7\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, then the undeveloped portion of the permit would be reduced only by the % by which the target flow is missed – 31.6% in this example).

Step 3: Given that the undeveloped portion of this permit as of this extension (E) is 7.8 cfs, and the undeveloped portion of the permit needs to be reduced by 19.7% (from Step 2), or 1.5 cfs, then the maximum amount

[7] Currently, the City of Grants Pass may not utilize Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit S-26901 that can be diverted as a result of this fish persistence condition. The utilization of the Consumptive Use Percentage 62.2% is only for illustrative purposes in this example.

of the undeveloped portion of Permit S-26901 that could be diverted as a result of this fish persistence condition would be 6.3 cfs. (This maximum amount may be limited as illustrated in Step 4, below.)

$$(7.8 \times 19.7\%) / 100) = 1.5$$

$$7.8 - 1.5 = 6.3$$

Step 4: The calculated maximum amount of water that could be diverted under the permit due to the fish persistence condition may not exceed the amount of water to which the City is legally entitled to divert. In this example, if the amount of water legally authorized for diversion under this permit is 20.0 cfs (for example, authorization provided through a WMCP), then 20.0 cfs would be the maximum amount of diversion allowed under this permit including the developed portion of the permit, being 17.2 cfs.

(Conversely, if the amount of water legally authorized for diversion under this permit is 24 cfs, then 23.5 cfs (6.3 from Step 3 + the 17.2 developed portion) would be the maximum amount of diversion allowed under this permit.)

DATED: December 3, 2013

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Dwight French
Water Right Services Division Administrator

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 submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **January 17, 2014,** being 45 days from the date of publication of the proposed final order in the Department's weekly notice.

2. A written protest shall include:
   a. The name, address and telephone number of the petitioner;
   b. A description of the petitioner's interest in the proposed 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 proposed final order would adversely affect or aggrieve the petitioner's interest;
d. A detailed description of how the proposed 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 protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
g. The applicant or non-applicant 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 protest 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 submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

If you have any questions about statements contained in this document, please contact Ann L. Reece at 503-986-0834.

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 Patricia McCarty 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 Right Services Division
725 Summer St NE, Suite A
Fax: 503-986-0901 Salem, OR 97301-1266

Mailing List for Extension PFO Copies

PFO Date: December 3, 2013

Application S-34141
Permit S-26901

Copies Mailed
By: BW
(SUPPORT STAFF)
On: 12/3/2013
(DATE)

Original mailed to:

City of Grants Pass
Attn: Jason Canady
101 NW "A" Street
GRANTS PASS, OR 97526

Copies sent to:

1. WRD - App. File S- 34141/ Permit S-26901
2. WRD - Watermaster District: 14 - Katherine Smith
3. Brian Ginter; Murray Smith and Associates; 121 SW Salmon, Suite 900, Portland, OR 97075

Fee paid as specified under ORS 536.050 to receive copy:

4. None

Receiving electronic copy of PFO via e-mail (10 AM Tuesday of signature date)

5. WRD – Lisa Jaramillo – Notify of WMCP needed
   Done by ALR *Date* 12-3-2013

CASEWORKER: ALR

Table 1. City of Grants Pass Existing Water Rights

App/Permit Number	Certificate Number	Source	Amount Authorized, cfs	Amount Used, cfs	Priority Date	Use
N/A	15839	Rogue River	12.5	12.5	1888	Used to meet current water demands within the City's service zone.
S-34141/ S-26901	N/A	Rogue River	25.0*	17.2	1960	Used to meet current water demands within the City's service zone.
S-41672/ S-45827	N/A	Rogue River	25.0	0.0	1965	Will be used for future growth.
S-64732/ S-47346	N/A	Rogue River	25.0	1.3	1983	Used to meet current water demands in the North Valley/Merlin area. Will be used for future growth within the City's service zone.
Total			87.5	31.0		

*A special condition of this permit states that the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.

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DEC 23 2005
WATER RESOURCES DEPT
SALEM, OREGON

Table 1. City of Grants Pass Existing Water Rights

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Total			87.5	31.0		

*A special condition of this permit states that the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cfs.

RECEIVED
DEC 23 2005
WATER RESOURCES DEPT
SALEM, OREGON

REECE Ann L

From: Jason Canady <jcanady@grantspassoregon.gov>
Sent: Monday, January 27, 2014 8:31 AM
To: 'Ann Reece'; Terry Haugen
Cc: Brian Ginter (Brian.Ginter@msa-ep.com); 'Michael McKillip' (Michael.McKillip@msa-ep.com)
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732
Attachments: July1999_FlowData.pdf

Ann, per our phone conversation the other day I am attaching documentation that demonstrates that Grants Pass was using water at a rate of ~30 CFS. The attached worksheet clearly shows that the City was not operating its treatment plant for 24 hours per day which requires it to withdraw water at a higher rate.

There are 4 pages to the attachment:
Page 1 is a summary of the month of July listing the Plants Raw Water Flow in MGD, the number of hours each of the plants raw water pumps ran, a "calculated flow in gpm as well as in CFS. The Calculated flow only occasionally reaches 30 CFS due to how pump hours are recorded and rounded and slight variations in flow meter readings.
Page 2 is the "raw" monthly report that we create every day showing plant flow rates as well as backwash flows.
Page 3 is from the same monthly report but shows plant pump run hours
Page 4 is an excerpt from our daily diary for July 28th supporting the assertion that the plant only worked for limited hours during that period.

For the City, this was a very regular occurrence during that period and the plant regularly ran at a raw water flow rate of 20 MGD but due to internal processes such as filter backwashing (which after treatment is returned to the Rogue River) chemical process water, etc it is only able to distribute about 18 MGD.

I am still working on pulling together data to demonstrate the the 1.3 CFS claim for the permit S-47346.

Please let me know what else I can provide you in the next few days to assist in this process.

Thanks!

From: Ann Reece [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, January 21, 2014 1:31 PM
To: Jason Canady
Cc: Patricia McCarty
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hi Jason,

I left you a voice message. One of the three PFO's was protested by WaterWatch (Appl S-34141). Patricia McCarty is our protest coordinator. It is my understanding that she will be sending a copy of the protest to Grants Pass in the next day or so.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Jason Canady [mailto:jcanady@grantspassoregon.gov]
Sent: Tuesday, January 21, 2014 10:11 AM
To: 'Ann Reece'; Michael McKillip
Cc: Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Good morning Ann! I left you a voice mail earlier today but thought I would follow up with a quick email. To see whether or not the City of Grants Pass' water rights extension applications received any protests as of the closing. We would appreciate any information that you could provide.

Thank you very much!
Jm

Water Treatment Plant Superintendent
(Office) 541-450-6119
(Cell) 541-660-6795
http://www.grantspassoregon.gov/water

City of Grants Pass
101 NW A Street
Grants Pass, OR 97526
Where the Rogue River Runs

From: Ann Reece [mailto:ann.l.reece@state.or.us]
Sent: Monday, November 25, 2013 10:29 AM
To: 'Ann Reece'; Michael McKillip

Cc: Jason Canady; Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Mike,

That is great news. The Proposed Final Orders are scheduled to go on out Dec. 3, 2013. There will be a 45 day protest period. If there are no protests, the Final Orders will be issued shortly after the 45 day period.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Michael McKillip [mailto:Michael.McKillip@msa-ep.com]
Sent: Friday, November 22, 2013 10:24 AM
To: 'Ann Reece'
Cc: 'Jason Canady'; Brian Ginter
Subject: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hello Ann,

We received your letter dated November 15, 2013, providing notification of the ODFW proposed fish persistence evaluations. We have reviewed with the City of Grants Pass and would like to proceed with processing the Extensions of Time for water rights applications S-34141, S-41672 & S-64732.

The City of Grants Pass Water Management and Conservation Plan is currently on administrative hold to potentially coordinate timing of the WMCP final order with the Extensions of Time. Please advise us of the anticipated Extensions processing schedule.

Thank you! -Mike

Michael L. McKillip, P.E., Ph.D. ▪ Civil Engineer
Murray, Smith & Associates, Inc. ▪ www.msa-ep.com
121 SW Salmon, Suite 900 ▪ Portland, Oregon 97204-2919
Tel: 503.225.9010 ▪ Fax: 503.225.9022 ▪ mlm@msa-ep.com

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Please consider the environment before printing this e-mail.

DISCLOSURE: Messages to and from this E-mail address may be subject to Oregon Public Records Law.

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MRDate	Influent Flow in MGD		Pump 1 Hours	Pump 2 Hours	Pump 3 Hours	Pump 4 Hours	Flow in GPM	Flow in CFS
Thursday, July 01, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Friday, July 02, 1999	8.06		9.5	10.25	10.25	10.25	13,108	29.21
Saturday, July 03, 1999	7.94		10.75	10.75	9	9	12,309	27.43
Sunday, July 04, 1999	7.41		9.25	9.25	9.25	9.25	13,343	29.73
Monday, July 05, 1999	8.25		10.25	10.25	10.25	10.25	13,422	29.91
Tuesday, July 06, 1999	8.26		10.25	10.25	10.25	10.25	13,434	29.93
Wednesday, July 07, 1999	8.69		10.75	10.75	10.75	10.75	13,467	30.01
Thursday, July 08, 1999	7.65		9.75	9.75	9.75	8.75	13,072	29.13
Friday, July 09, 1999	10.09		12.5	12.5	12.5	12.5	13,454	29.98
Saturday, July 10, 1999	8.79		11.25	11.25	11.25	11.25	13,019	29.01
Sunday, July 11, 1999	9.37		11.75	11.75	11.75	11.75	13,295	29.62
Monday, July 12, 1999	9.45		11.75	11.75	11.75	11.75	13,406	29.87
Tuesday, July 13, 1999	9.55		12	12	12	12	13,259	29.54
Wednesday, July 14, 1999	8.26		10.25	10.25	10.25	10.25	13,426	29.92
Thursday, July 15, 1999	8.69		10.5	10.5	10.5	10.5	13,800	30.75 ←
Friday, July 16, 1999	8.45		10.5	10.5	10.5	10.5	13,415	29.89
Saturday, July 17, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Sunday, July 18, 1999	8.30		10.25	10.25	10.25	10.25	13,500	30.08
Monday, July 19, 1999	9.87		12.25	12.25	12.25	12.25	13,433	29.93
Tuesday, July 20, 1999	9.05		11.25	11.25	11.25	11.25	13,401	29.86
Wednesday, July 21, 1999	8.86		11.75	11.75	11.75	11.75	12,566	28.00
Thursday, July 22, 1999	9.64		12	12	12	12	13,387	29.83
Friday, July 23, 1999	8.89		11.25	11.25	11.25	11.25	13,176	29.36
Saturday, July 24, 1999	8.34		10.5	10.5	10.5	10.5	13,237	29.49
Sunday, July 25, 1999	8.89		11.25	11.25	11.25	11.25	13,167	29.34
Monday, July 26, 1999	9.01		11.25	11.25	11.25	11.25	13,342	29.73
Tuesday, July 27, 1999	7.78		9.75	9.75	9.75	9.75	13,298	29.63
Wednesday, July 28, 1999	11.13		14	14	14	14	13,250	29.52
Thursday, July 29, 1999	9.31		11.75	11.75	11.75	11.75	13,206	29.42
Friday, July 30, 1999	9.00		11.25	11.25	11.25	11.25	13,337	29.72
Saturday, July 31, 1999	8.81		11	11	11	11	13,351	29.75
							Average Flow in GPM	Average Flow in CFS
							13,276	29.58

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CITY OF GRANTS PASS
WATER FILTRATION PLANT
MONTHLY OPERATION REPORT

DATE	TOTAL FLOW MGD INF.	TOTAL FLOW MGD EFF.	BACK WASH MGD	TEMPERATURE AMBIENT MAX	TEMPERATURE AMBIENT MIN	RAIN 24 HR INCHES	RIVER DATA O800 LEVEL	RIVER DATA O800 CFS	RIVER DATA O800 AVG CFS	RIVER DATA O800 TEMP	RIVER DATA O800 TURB	RIVER DATA O800 COND	WEATHER CONDITIONS CLEAR, CLDY FOG, P.CLDY
1	9.0022	8.1316	0.8706	83	48	0.00	3.67	3927	3960	62	3	S	CLEAR
2	8.0612	7.1205	0.9407	72	50	0.00	3.63	3860	3835	61	3	S	CLDY
3	7.9394	7.1005	0.8389	70	45	0.03	3.63	3860	3835	59	3	S	CLDY
4	7.4055	6.4889	0.9166	76	47	0.00	3.54	3710	3661	58	3	S	PCLDY
5	8.2543	7.2615	0.9928	90	40	0.00	3.45	3562	3513	59	3	S	CLEAR
6	8.2617	7.4048	0.8569	83	47	0.00	3.27	3272	3224	60	3	FS	CLEAR
7	8.6860	7.7018	0.9842	82	48	0.00	3.15	3082	3082	62	3	FS	CLEAR
8	7.6471	6.8619	0.7852	92	42	0.00	3.28	3288	3208	60	2	S	CLEAR
9	10.0907	9.1130	0.9777	99	46	0.00	3.32	3352	3304	60	2	S	CLEAR
10	8.7878	8.0088	0.7790	97	48	0.00	3.34	3384	3344	62	3	S	CLEAR
11	9.3731	8.1936	1.1795	93	53	0.00	3.40	3480	3424	63	3	S	CLEAR
12	9.4514	8.3900	1.0614	97	52	0.00	3.58	3776	3760	63	3	RS	CLEAR
13	9.5462	8.4962	1.0500	93	53	0.00	3.60	3810	3694	63	3	S	CLEAR
14	8.2570	7.3898	0.8672	84	57	0.00	3.49	3627	3529	62	3	S	CLEAR
15	8.6940	7.7238	0.9702	90	45	0.00	3.62	3843	3801	61	3	S	CLEAR
16	8.4515	7.4842	0.9673	86	45	0.00	3.60	3810	3785	61	3	S	CLEAR
17	9.0023	8.1431	0.8592	80	41	0.00	3.61	3826	3826	60	3	S	CLEAR
18	8.3026	7.2030	1.0996	92	41	0.00	3.53	3693	3685	59	3	S	CLEAR
19	9.8733	8.6734	1.1999	95	49	0.00	3.44	3545	3611	60	3	S	PCLDY
20	9.0456	7.8686	1.1770	89	50	0.00	3.40	3480	3440	61	3	FS	PCLDY
21	8.8589	7.8289	1.0300	89	47	0.00	3.15	3082	3233	60	3	S	CLEAR
22	9.6387	8.5308	1.1079	94	50	0.00	3.33	3368	3352	60	3	S	CLEAR
23	8.8940	7.9561	0.9379	93	51	0.02	3.21	3176	3152	59	3	S	CLEAR
24	8.3390	7.2943	1.0447	82	49	0.00	3.16	3098	3121	60	3	FS	CLEAR
25	8.8877	7.7053	1.1824	90	48	0.00	3.07	2958	2935	59	3	FS	CLEAR
26	9.0056	7.6786	1.3270	98	48	0.00	3.08	2973	2973	59	3	S	CLEAR
27	7.7792	6.3826	1.3966	97	53	0.00	3.10	3004	2973	60	3	S	CLEAR
28	11.1302	9.3536	1.7766	97	48	0.00	3.07	2958	2958	59	3	S	CLEAR
29	9.3100	7.8557	1.4543	96	47	0.00	3.15	3082	3027	60	3	S	CLEAR
30	9.0026	8.1036	0.8990	94	46	0.00	3.13	3051	2989	59	3	S	CLEAR
31	8.8115	7.9830	0.8285	95	47	0.00	3.14	3066	2958	59	3	S	CLEAR
TOT	273.7903	241.4315	32.3588	2768.0	1481.0	0.05	104.1						
MAX	11.1302	9.3536	1.7766	99.0	57.0	0.03	3.67	3927	3960	63.0	3		
MIN	7.4055	6.3826	0.7790	70.0	40.0	0.02	3.07	2958	2935	58.0	2		
AVG	8.8319	7.7881	1.0438	89.3	47.8	0.00	3.36	3419	3393	60.3	3		

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MONTHLY OPERATION REPORT

PUMP OPERATIONS --- HOURS

DATE	INFLUENT PUMPS				EFFLUENT PUMPS				
	#1	#2	#3	#4	#1	#2	#3	#4	#5
1	11.25	11.25	11.25	11.25	11.25	1.00	9.00	11.25	8.50
2	9.50	10.25	10.25	10.25		10.25	10.25	9.50	9.50
3	10.75	10.75	9.00	9.00	9.00		10.75	10.75	6.25
4	9.25	9.25	9.25	9.25	9.25		9.25	8.50	7.25
5	10.25	10.25	10.25	10.25		10.25	9.50	10.25	9.00
6	10.25	10.25	10.25	10.25	10.25		10.25	9.50	8.50
7	10.75	10.75	10.75	10.75	10.75	10.75		9.75	8.50
8	9.75	9.75	9.75	8.75	2.00	9.75	6.75	9.00	9.75
9	12.50	12.50	12.50	12.50	12.50		11.25	11.50	12.50
10	11.25	11.25	11.25	11.25	1.00	11.25	11.00	11.25	9.25
11	11.75	11.75	11.75	11.75	11.75		11.75	11.25	7.25
12	11.75	11.75	11.75	11.75		12.00	11.75	11.00	9.50
13	12.00	12.00	12.00	12.00	12.00	12.00		10.50	8.75
14	10.25	10.25	10.25	10.25		9.75	10.25	10.25	9.75
15	10.50	10.50	10.50	10.50	10.50	8.00	10.50	1.00	10.00
16	10.50	10.50	10.50	10.50		10.25	10.50	10.50	10.50
17	11.25	11.25	11.25	11.25	11.25		11.25	11.25	9.25
18	10.25	10.25	10.25	10.25		10.25	10.25	9.25	9.50
19	12.25	12.25	12.25	12.25	12.25		12.00	11.00	9.50
20	11.25	11.25	11.25	11.25		11.25	11.25	10.75	9.75
21	11.75	11.75	11.75	11.75	10.00	1.75	11.50	7.25	10.25
22	12.00	12.00	12.00	12.00	12.00	0.75	12.00	11.25	9.00
23	11.25	11.25	11.25	11.25	5.00	11.25	11.00	7.00	7.75
24	10.50	10.50	10.50	10.50		10.00	10.50	10.50	10.00
25	11.25	11.25	11.25	11.25	11.25		11.25	11.00	7.25
26	11.25	11.25	11.25	11.25		11.25	11.25	10.75	9.00
27	9.75	9.75	9.75	9.75	9.75	9.75	9.25	1.75	4.00
28	14.00	14.00	14.00	14.00	13.25	14.00		14.00	9.00
29	11.75	11.75	11.75	11.75	11.50	11.25		10.75	10.25
30	11.25	11.25	11.25	11.25	11.25	11.00		11.25	7.75
31	11.00	11.00	11.00	11.00	10.50	11.00		10.75	9.25
TOT	343.0	343.8	342.0	341.0	218.3	218.8	264.3	304.3	276.3
MAX	14.0	14.0	14.0	14.0	13.3	14.0	12.0	14.0	12.5
MIN	9.3	9.3	9.0	8.8	1.0	0.8	6.8	1.0	4.0
AVG	11.1	11.1	11.0	11.0	9.9	9.5	10.6	9.8	8.9

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57 days follow

1999 209th day – 156 days follow

WEDNESDAY 28 JULY

0645

1630

0400-1630 Ken / 0630-1630 Jeff / 0800-1630 Jason, Jon, Ryan

START 0400

STOP 1800

0615 #2-3 Lawnridge Manual

* Faulty Vacuum regulator - out of service. Only have one cylinder hooked up + ON LINE

listen to

1800 - #2+3 Lawnridge from Manual on to Auto!

√ - pump station = OK!

v Pump!

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Cl2 cylinder delivery Cylinder #

1200 lbs

AT-A-GLANCE®

Oregon Water Resources Department
Water Rights Division

In the Matter of Extension of Time for S-26901 in the Name of the City of Grants Pass	)))	PROTEST TO PROPOSED FINAL ORDER

I. Name, Address and Telephone Number of Protestant

WaterWatch of Oregon, Inc.
213 SW Ash Street, Suite 208
Portland, OR 97204
Phone: 503.295.4039
Fax: 503.295.2791
Contact: Lisa Brown

II. Interests of Protestant

Protestant WaterWatch of Oregon ("WaterWatch") has invested time and money protecting and restoring in-stream flows and surface waters in Oregon, including areas that would be affected by the Proposed Final Order ("PFO"). WaterWatch also has members who regularly use and enjoy the portion of the Rogue River that would be affected by the proposed diversion for boating, fishing, bird watching and other activities.

WaterWatch has committed extensive resources and time to maintaining and restoring streamflows and river habitat in the Rogue Basin.

WaterWatch and its members have invested time and money promoting sound water policy, including in securing the fish persistence standard in ORS 537.230(2)(c).

WaterWatch also has invested time and money in ensuring fair water policy in which a beneficial user of water does not lose priority to a later user simply on grounds that the later user applied for and obtained a permit that was not developed with reasonable diligence within the statutory time required by law.

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WaterWatch also represents the public's interest in protecting Oregon's waterways from exploitation and waste, investing its time and resources to ensure the highest beneficial use is realized from the public waterways. WaterWatch does this by participating in the water permitting process, including by reviewing and filing protests, as appropriate, to water permitting decisions; participating in the public review process for Water Management and Conservation Plans; and working in the Oregon legislature and on rules advisory committees, all with the goal of ensuring that the water laws are properly implemented so to achieve the sustainable and beneficial use of Oregon's waterways.

For all of these reasons, WaterWatch and its members will be affected, adversely affected and aggrieved, and practically affected by the PFO.

III. The PFO Would Impair And Be Detrimental To Protestant's Interests

1. Water use under the extended permit, as conditioned, would harm existing surface water uses and their ability to support fish and aquatic ecosystems. The members of WaterWatch use water downstream of the proposed use for boating, fishing and recreation.

2. Issuance of the permit consistent with the PFO would impair and be detrimental to WaterWatch's interest in protecting the public's use of the Rogue River for beneficial uses.

3. Issuance of the permit would impair and be detrimental to WaterWatch's interest and the public's interest in ensuring that the state not extend speculative water rights.

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4. Issuance of the permit would impair and be detrimental to WaterWatch's interest and the public's interest in ensuring that Oregon's water laws are properly implemented and that Oregon water resources are allocated fairly.

IV. How The PFO Is In Error And Deficient And How To Correct The Errors And Deficiencies

A. The PFO is in error and deficient for reasons including the following:

1. The PFO's findings that the undeveloped portion of the permit is 7.8 cfs (p. 4, FOF #13; p. 9, FOF #42; elsewhere) are contrary to statute and rule and not supported by the evidence for reasons including but not limited to the following:

a) The PFO does not comply with ORS 537.230(2)(c) or OAR 690-315-0010(6)(g) because WRD has measured the undeveloped portion of the permit as of December 23, 2005 (p. 4, FOF #13; p. 9, FOF #42; elsewhere) instead of on October 1, 1999 when the last extensions expired. *WaterWatch v. WRD,* 259 Or App 717 (2013). If OAR 690-315-0010(6)(g) allows measuring the undeveloped portion in 2005, the rule is invalid because it conflicts with the statute.

b) The PFO's finding that the permit holder had diverted 17.2 cfs under permit S-26901 and that the undeveloped portion is 7.8 cfs is not supported by the evidence for reasons including but not limited to the following:

In addition to the 17.2 cfs that the PFO finds has been developed, WRD found that 1.3 cfs of permit S-47346 had also been developed as of December 23, 2005. These amounts are in addition to 12.5 cfs that WRD finds the City is utilizing under Certificate 15839, for a total of 31 cfs. This amount could not have been diverted as of October 1, 1999 because as of 2002, the City's water treatment plant capacity was only 18 mgd (27.9 cfs). City of Grants Pass Water Distribution System Master Plan (2001) at p. 2-8.

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(Available here: http://www.grantspassoregon.gov/Index.aspx?page=1625 (last visited 1-16-2014). Further, in 2002, the "WTP Capacity Requirement, mgd" was only 11 (17.05 cfs), further indicating that the City was likely not diverting 31 cfs in 1999.

Additionally, from 1995 to 1999 "the highest peak daily demand was 9.47 mgd [14.67 cfs] in August of 1998." City of Grants Pass Water Distribution System Master Plan (2001) at 3-4. This is consistent with the Water Management and Conservation Plan (2002) and the Water Distribution System Master Plan (2001) that both identify a maximum day demand of 10 mgd (15.5 cfs). P. 2-8 and p. 3-9, respectively. (Available here: http://www.grantspassoregon.gov/Index.aspx?page=1625 (last visited 1-16-2014)). After fully using its 12.5 cfs Certificate 15839, this demand would require an additional 2.19 cfs. Yet, the PFOs for permits S-26901 and S-47436 find that a total of 18.5 cfs had been developed under these permits combined. While some increased diversion may be needed to meet peak hour demand, the City has extensive in-system storage that it utilizes for this purpose. The City had a population of 20, 935 people in 1999 (Water Distribution System Master Plan (2001) at p. 3-4), for which a demand of 31 cfs is excessive. The evidence does not support a finding that 17.2 cfs of permit S-26901 had been diverted when the last extensions expired.

In fact, 31 cfs is the amount the City projects it will need to meet max day demand at full build out of its UGB. *See* City of Grants Pass's Water Management and Conservation Plan (2002) at p. 2-8; City of Grants Pass Water Distribution System Master Plan (2001) at p. 3-9. (Both available here: http://www.grantspassoregon.gov/Index.aspx?page=1625 (visited 1-16-2014)).

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2. The PFO does not comply with OAR 690-315-0080(1)(d) or ORS 537.230(2), and findings that the City needs the permit by 2040; will divert 46 cfs by 2040; and has an 87 cfs demand by 2090 (FOF #21, #20, #17) are not supported by the evidence.

OAR 690-315-0080(1)(d) requires that WRD find that:

> "The applicant can complete the project within the time period requested for the extension; and, if the request is for more than 50 years that the estimated demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder;"

The PFO does not comply with these standards and FOF #21, #20 and #17 are not supported by the evidence for reasons including but not limited to the following.

Both the City of Grants Pass's Water Management and Conservation Plan (2002) and its Water Distribution System Master Plan (2001) calculate the maximum day demand for full UGB build out to be 20 mgd (31 cfs). (Page 2-8 and 3-9, respectively). Between this permit and Certificate 15839, the City would have 37.5 cfs (with 7.8 cfs subject to fish persistence conditions). Further, the City's Water Distribution System Master Plan (2001) identifies 19 million gallons of storage capacity that is used, in part, to meet peak hour demand.

The evidence does not support a finding of an 87 cfs demand at 2090. The PFO for permit S-47346 finds that at some unspecified time in the future "it is anticipated that approximately 1,200 acres will be added to the UGB." (PFO for Permit S-47346, p. 5, FOF #20). That PFO also finds that "[i]t is anticipated that long-term expansions will continue to maintain a similar land use blend of residential, commercial and industrial

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land uses." (*Id.*). Based on the City's projected use within the existing UGB, this UGB expansion would add 5.31 cfs to the projected full build out demand, totaling 36.31 cfs.

This is inconsistent with a determination that a diversion of 87 cfs will be needed by 2090. This number is not supported by existing evidence because it is nearly 51 cfs more than the City's own projected water demand at full build out of the UGB, adjusted for the claimed future 1,200 acre expansion.

B. The errors and deficiencies should be corrected as follows:

1. The errors and deficiencies should be corrected by withdrawing the PFO, addressing the issues above and reissuing consistent with *WaterWatch v. WRD* (259 Or App 717 (2013)).

V. Citation Of Legal Authority

Applicable legal authorities where known are cited above.

VI. Protest Fee

The required fee of $700.00 is included with this protest.

VII. Request For Hearing

If the PFO is not withdrawn and reissued, Protestant requests a contested case hearing.

Dated: December 17, 2014.

Respectfully submitted,

Lisa A. Brown

Lisa Brown
WaterWatch of Oregon
213 SW Ash St., STE 208
Portland, OR 97204
Ph: 503.295.4039 x4

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Certificate of Service

I certify that on this date, a copy of the foregoing protest was served on each of the following by the method indicated:

CITY OF GRANTS PASS
101 NW A ST
GRANTS PASS, OR 97526
By placing in the US Postal Mail, first class postage prepaid, from Portland, Oregon

Water Rights Services Division
Oregon Water Resources Department
725 Summer St. NE, STE A
Salem, OR 97301-1266
By hand delivery

Dated: December 17, 2014

Lisa A. Brown

_____

Lisa Brown
WaterWatch of Oregon
213 SW Ash St., STE 208
Portland, OR 97204
Ph: 503.295.4039 x2
Fax: 503.295.2791
lisa@waterwatch.org

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MCCARTY Patricia E

From: Glick, Rick <RichardGlick@dwt.com>
Sent: Tuesday, March 11, 2014 3:42 PM
To: Patricia McCarty
Cc: Brown, Lisa (lisa@waterwatch.org); Jason Canady (jcanady@grantspassoregon.gov); Adam Sussman (ASussman@gsiws.com)
Subject: City of Grants Pass Extension Protest (S-26901)

Hi, Patricia, this is to let you know that I represent the City of Grants Pass in this matter. Please direct correspondence and notices to me. Thanks, Rick

Richard M. Glick | Davis Wright Tremaine LLP
1300 SW Fifth Avenue, Suite 2400 | Portland, OR 97201
Tel: (503) 778-5210 | Fax: (503) 276-5710 | Mobile: (503) 329-0952
Email: rickglick@dwt.com | Website: www.dwt.com
Bio: www.dwt.com/people/RichardMGlick

Anchorage | Bellevue | Los Angeles | New York | Portland | San Francisco | Seattle | Shanghai | Washington, D.C.

Circular 230 - To comply with IRS rules, we must inform you that this message (including any attachment) if it contains advice relating to federal taxes, was not intended or written to be used, and it cannot be used, for the purpose of avoiding penalties that may be imposed under federal tax law. Under these rules, a taxpayer may rely on professional advice to avoid federal tax penalties only if that advice is reflected in a comprehensive tax opinion that conforms to stringent requirements under federal law.

EXTENSION CHECKLIST

FILE DOCUMENT - FOR OFFICE USE ONLY

APPLICATION NO: 34141 41672 ~~64732~~ PERMIT NO: 28901 45827 ~~47346~~

DATE: 1-9-95

1. What service area or base was anticipated by the applicant at the time the permit was granted?

2. What water right development steps has the permittee completed to date?

3. Is the permittee currently meeting all conditions of the permit?

4. What is the current use of water under the permit?

5. What percent of the total allowable use under the permit does the current use represent?

6. Have there been any unforseen events (over which the permittee has no control) which could reasonably have delayed development under the permit?

7. Has there been any change in the market for either water or power since the permit was granted which could have affected the development program under the permit?

8. Has there been any change in demand for water or power since the permit was granted?

9. If the extension request is denied, is the current level of water use under the permit economically feasible?

10. Is there an alternate source of water available at this time?

11. Has use of water under the permit caused an adverse impact on the surface/ground water resource in the area?

12. Have there been claims of injury to other water right holders or water users in the area?

REMARKS:

Oregon
John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

2-4-14

Talk to Canady about protest + issue of demand projection

WW protest based on 2005 plan, not recent 2012 WMCP #s

September 22, 2013

City of Grants Pass
Jason Canady
101 NW "A" Street
Grants Pass, OR 97526

file copy
mailed 1-22-14

RE: Water Permit S-26901 Extension Proposed Final Order; Protest received

Dear Mr. Canady,

A protest by WaterWatch of Oregon, Inc. on the Extension Proposed Final Order for Permit S-26901 was received on January 17, 2014. A copy is attached. After I review the protest I will contact you to advise you of the next steps.

Please call me at the number below if you have any questions in the meantime.

Sincerely,

Patricia McCarty

Patricia McCarty
Protest Program Coordinator
Water Right Services Division
503-986-0820

5M-

Permit No. 26901

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JUL 19 1960
STATE ENGINEER
SALEM, OREGON

*APPLICATION FOR PERMIT

To Appropriate the Public Waters of the State of Oregon

I, City of Grants Pass Water Department (Name of applicant)

of City Hall, 4th and "H" Streets, Grants Pass, Oregon (Mailing address),

State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation Municipal Corporation chartered by the legislative assembly of the State of Oregon on February 16, 1901

1. The source of the proposed appropriation is Rogue River (Name of stream), a tributary of

2. The amount of water which the applicant intends to apply to beneficial use is 25 cubic feet per second. (If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is domestic and all other (Irrigation, power, mining, manufacturing, domestic supplies, etc.) municipal purposes.

4. The point of diversion is located 1133 ft. South (N. or S.) and 2870 ft. West (E. or W.) from the NE corner of Section 20 (Section or subdivision)

(If preferable, give distance and bearing to section corner)

being within the NE¼ NW¼ Section 20, T.36 S., R.5 W.

(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the City of Grants Pass (Give smallest legal subdivision) of Sec. 7,8,17,18/19 & 20, Tp. 36 S (N. or S.), R. 5 W. (E. or W.), W. M., in the county of Josephine

5. The (Main ditch, canal or pipe line) to be (Miles or feet) in length, terminating in the City of Grants Pass (Smallest legal subdivision) of Sec. 7,8,17,18/19 & 20, Tp. 36 S (N. or S.), R. 5 West (E. or W.), W. M., the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam None feet, length on top feet, length at bottom feet; material to be used and character of construction (Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate None (Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Present(2160 gpm 2500 gpm 1250 gpm 850 head 42') Future(four pumps of 4,000 gpm) All Electric. (Size and type of pump) (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Amend 152 P759

17

26901

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, ... ft.; size at intake, ... in.; size at ..... ft. from intake ..... in.; size at place of use ..... in.; difference in elevation between intake and place of use, ... ft. Is grade uniform? ..... Estimated capacity, ... sec. ft.

8. Location of area to be irrigated, or place of use .....

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
36 S	5 W	7	S½ & E½ NE¼	Municipal
		8	All	
		9	W½	
		16	W½	
		17	All	
		18	All	
		19	All	
		20	All	
		21	NW¼ & N½ SW¼	

(If more space required, attach separate sheet)

(a) Character of soil .....

(b) Kind of crops raised .....

Power or Mining Purposes—

9. (a) Total amount of power to be developed ..... theoretical horsepower.

(b) Quantity of water to be used for power ..... sec. ft.

(c) Total fall to be utilized ..... (Head) feet.

(d) The nature of the works by means of which the power is to be developed .....

.....

(e) Such works to be located in ..... (Legal subdivision) of Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(f) Is water to be returned to any stream? ..... (Yes or No)

(g) If so, name stream and locate point of return .....

....., Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(h) The use to which power is to be applied is .....

(i) The nature of the mines to be served .....

Municipal or Domestic Supply—

26901

10. (a) To supply the city of Grants Pass, Josephine County,

(Name of) County, having a present population of 10,001

and an estimated population of 21,000 in 1980

(b) If for domestic use state number of families to be supplied 5,250

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $872,600 - This cost is for an expansion of the water treatment plant only. This will be done in 3 phases to be completed by 1980.

12. Construction work will begin on or before The construction work is contingent on a vote of the public. The above costs are from a water system investigation by Cornell, Howland, Hayes & Merryfield done in 1960.

13. Construction work will be completed on or before

14. The water will be completely applied to the proposed use on or before About 1980.

(Signature of applicant)

Water Superintendent

Remarks: This application was made on the direct recommendation by Cornell, Howland, Hayes and Merryfield in an Engineering Report on a Water System investigation for the City of Grants Pass, Oregon. If there are any questions on the proposed use, a copy of this investigation is available at your request.

STATE OF OREGON, }
County of Marion, } ss.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before October 11, 19.60

WITNESS my hand this 11th day of August, 19.60

LEWIS A. STANLEY
STATE ENGINEER

By Walter N. Perry
Walter N. Perry
ASSISTANT

BC Extended to Oct. 1 19[illegible]

PERMIT

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

The use to which this water is to be applied is municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 c.f.s.

If for irrigation, this appropriation shall be limited to - - of one cubic foot per second or its equivalent for each acre irrigated

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

The priority date of this permit is July 19, 1960

Actual construction work shall begin on or before September 20, 1964 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1964

Complete application of the water to the proposed use shall be made on or before October 1, 1964

WITNESS my hand this 20th day of September, 1960

Lewis A. Stanley
STATE ENGINEER

Application No. 34141

Permit No. 26901

PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 19th day of July, 1960, at 2:22 o'clock P.M.

Returned to applicant:

Approved:

September 20, 1960

Recorded in book No. 73 of Permits on page 26901

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. 15 page G.O.F.

Fees $ -

State Printing 98137

BC. Extended - 1989

Oregon
John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

September 22, 2013

City of Grants Pass
Jason Canady
101 NW "A" Street
Grants Pass, OR 97526

RE: Water Permit S-26901 Extension Proposed Final Order; Protest received

Dear Mr. Canady,

A protest by WaterWatch of Oregon, Inc. on the Extension Proposed Final Order for Permit S-26901 was received on January 17, 2014. A copy is enclosed. After I review the protest I will contact you to advise you of the next steps.

Please call me at the number below if you have any questions in the meantime.

Sincerely,

Patricia McCarty

Patricia McCarty
Protest Program Coordinator
Water Right Services Division
503-986-0820

Oregon
John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

January 22, 2014

Lisa Brown
WaterWatch of Oregon, Inc.
213 SW Ash St., Ste. 208
Portland, OR 97204

RE: Water Right Permit S-26901 City of Grants Pass; Permit Extension PFO protest

Dear Ms. Brown,

Water Resources received the protest and fee for the WaterWatch protest on the proposed final order for Permit S-26901 on January 17, 2014. Receipt number 110931 for check number 3443 in the amount of $700.00 is enclosed.

Sincerely,

Patricia McCarty

Patricia McCarty
Protest Program Coordinator
Water Right Services Division
503-986-0820

STATE OF OREGON

WATER RESOURCES DEPARTMENT

RECEIPT # 110931

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

INVOICE # _____

RECEIVED FROM: Waterwatch of Oregon, Inc.

BY:

APPLICATION	S-34174
PERMIT	
TRANSFER	

CASH: ☐ CHECK:# ☒ 3443 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 700.00

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	47235	$
0410	RESEARCH FEES		$
0408	MISC REVENUE: (IDENTIFY)	_____	$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$
0240	EXTENSION OF TIME		$

WATER RIGHTS:

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

WELL CONSTRUCTION

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

0223 OTHER (IDENTIFY) protest fee - 700.00

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	$

RECEIVED OVER THE COUNTER

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $

RECEIPT: 110931 DATED: 1-17-14 BY: MC

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

Ann Reece

From: Ann Reece <ann.l.reece@state.or.us>
Sent: Monday, November 25, 2013 10:29 AM
To: 'Ann Reece'; Michael McKillip
Cc: 'Jason Canady'; Brian Ginter
Subject: RE: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Mike,

That is great news. The Proposed Final Orders are scheduled to go on out Dec. 3, 2013. There will be a 45 day protest period. If there are no protests, the Final Orders will be issued shortly after the 45 day period.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Michael McKillip [mailto:Michael.McKillip@msa-ep.com]
Sent: Friday, November 22, 2013 10:24 AM
To: 'Ann Reece'
Cc: 'Jason Canady'; Brian Ginter
Subject: Grants Pass - Extensions of Time S-34141, S-41672, S-64732

Hello Ann,

We received your letter dated November 15, 2013, providing notification of the ODFW proposed fish persistence evaluations. We have reviewed with the City of Grants Pass and would like to proceed with processing the Extensions of Time for water rights applications S-34141, S-41672 & S-64732.

The City of Grants Pass Water Management and Conservation Plan is currently on administrative hold to potentially coordinate timing of the WMCP final order with the Extensions of Time. Please advise us of the anticipated Extensions processing schedule.

Thank you! -Mike

Michael L. McKillip, P.E., Ph.D. ▪ Civil Engineer
Murray, Smith & Associates, Inc. ▪ www.msa-ep.com
121 SW Salmon, Suite 900 ▪ Portland, Oregon 97204-2919
Tel: 503.225.9010 ▪ Fax: 503.225.9022 ▪ mlm@msa-ep.com

Notice: This e-mail and any attached files are the private confidential property of the sender, and the materials are privileged communications intended solely for the receipt, use, benefit and information of the intended recipient indicated above. If you are not the intended recipient, you are hereby notified that any review, disclosure, copying, distribution, or taking of any other action in reliance on the contents of this transmission is strictly prohibited, and may result in legal liability on your part. If you have received this e-mail in error, please notify us immediately at the above address.

Please consider the environment before printing this e-mail.

Court—1M—12-43

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

This Is to Certify, That Rogue River Water Company

of Grants Pass, State of Oregon, has a right to the use of the waters of Rogue River

for the purpose of municipal and domestic use, and irrigation

and that said right has been confirmed by decree of the Circuit Court of the State of Oregon for Jackson County, and the said decree entered of record at Salem, in the Order Record of the STATE ENGINEER, in Volume 4, at page 1; that the priority of the right thereby confirmed dates from 1888;

that the amount of water to which such right is entitled, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 12.5 cubic feet per second.

A description of the lands irrigated under such right, and to which the water is appurtenant (or, if for other purposes, the place where such water is put to beneficial use), is as follows:

Within the corporate limits of
the city of Grants Pass, Oregon

And said right shall be subject to all other conditions and limitations contained in said decree. The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed this 30 day of September, 1949.

CHAS. E. STRICKLIN
State Engineer

Recorded in State Record of Water Right Certificates, Volume 13, page 15839

5M–

Permit No. 26901

RECEIVED
JUL 19 1960
STATE ENGINEER
SALEM, OREGON

*APPLICATION FOR PERMIT

To Appropriate the Public Waters of the State of Oregon

I, City of Grants Pass Water Department
(Name of applicant)

of City Hall, 4th and "H" Streets, Grants Pass, Oregon,
(Mailing address)

State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation Municipal Corporation chartered by the legislative assembly of the State of Oregon on February 16, 1901

1. The source of the proposed appropriation is Rogue River
(Name of stream)
, a tributary of

2. The amount of water which the applicant intends to apply to beneficial use is 25 cubic feet per second.
(If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is domestic and all other municipal purposes.
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)

4. The point of diversion is located 1133 ft. South (N. or S.) and 2870 ft. West (E. or W.) from the NE corner of Section 20
(Section or subdivision)

(If preferable, give distance and bearing to section corner)

being within the NE¼ NW¼ Section 20, T.36 S., R.5 W.
(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the City of Grants Pass (Give smallest legal subdivision) of Sec. 7, 8, 17, 18/19 & 20, Tp. 36 S (N. or S.), R. 5 W. (E. or W.), W. M., in the county of Josephine

5. The
(Main ditch, canal or pipe line)
to be
(Miles or feet)
in length, terminating in the City of Grants Pass (Smallest legal subdivision) of Sec. 7, 8, 17, 18/19 & 20, Tp. 36 S (N. or S.), R. 5 West (E. or W.), W. M., the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam None feet, length on top feet, length at bottom feet; material to be used and character of construction
(Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate None
(Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Present (2160 gpm 2500 gpm 1250 gpm 850, head 42') Future (four pumps of 4,000 gpm) All Electric.
(Size and type of pump) (Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Amend V 52 P 769

17

26901

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, ... ft.; size at intake, ... in.; size at ..... ft. from intake ..... in.; size at place of use ..... in.; difference in elevation between intake and place of use, ... ft. Is grade uniform? ..... Estimated capacity, ... sec. ft.

8. Location of area to be irrigated, or place of use .....

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
36 S	5 W	7	S½ & E½ NE¼	Municipal
		8	All	
		9	W½	
		16	W½	
		17	All	
		18	All	
		19	All	
		20	All	
		21	NW¼ & N½ SW¼	

(If more space required, attach separate sheet)

(a) Character of soil .....

(b) Kind of crops raised .....

Power or Mining Purposes—

9. (a) Total amount of power to be developed ..... theoretical horsepower.

(b) Quantity of water to be used for power ..... sec. ft.

(c) Total fall to be utilized ..... (Head) feet.

(d) The nature of the works by means of which the power is to be developed .....

.....

(e) Such works to be located in ..... (Legal subdivision) of Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(f) Is water to be returned to any stream? ..... (Yes or No)

(g) If so, name stream and locate point of return .....

....., Sec. ....., Tp. ..... (No. N. or S.), R. ..... (No. E. or W.), W. M.

(h) The use to which power is to be applied is .....

(i) The nature of the mines to be served .....

Municipal or Domestic Supply—

26901

10. (a) To supply the city of Grants Pass, Josephine County.

(Name of) County, having a present population of 10,001

and an estimated population of 21,000 in 1990

(b) If for domestic use state number of families to be supplied 5,250

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, $872,600 - This cost is for an expansion of the Water treatment plant only. This will be done in 3 phases to be completed by 1980.

12. Construction work will begin on or before The construction work is contingent on a vote of the public. The above costs are from a water system investigation by Cornell, Howland, Hayes & Merryfield done in 1960.

13. Construction work will be completed on or before

14. The water will be completely applied to the proposed use on or before About 1980.

(Signature of applicant)

Water Superintendent

Remarks: This application was made on the direct recommendation by Cornell, Howland, Hayes and Merryfield in an Engineering Report on a Water System investigation for the City of Grants Pass, Oregon. If there are any questions on the proposed use, a copy of this investigation is available at your request.

STATE OF OREGON, }
County of Marion, } ss.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before October 11, 1960

WITNESS my hand this 11th day of August, 1960.

LEWIS A. STANLEY
STATE ENGINEER

By Walter M. Perry
Walter M. Perry
ASSISTANT

69-1-01

PERMIT

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Rogue River.

The use to which this water is to be applied is municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 c.f.s.

If for irrigation, this appropriation shall be limited to - - of one cubic foot per second or its equivalent for each acre irrigated

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

The priority date of this permit is July 19, 1960

Actual construction work shall begin on or before September 20, 1964 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1964

Complete application of the water to the proposed use shall be made on or before October 1, 1964

WITNESS my hand this 20th day of September, 1960

Lewis A. Stanley
STATE ENGINEER

Application No. 34142

Permit No. 26901

PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 19th day of July, 1960, at 8:00 o'clock A. M.

Returned to applicant:

Approved:

September 20, 1960

Recorded in book No. 73 of Permits on page 26901

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. 15 page 60F

Fees

State Printing 56137

BC. Extended 1989

BC Extended to Oct 1, 1974

Oregon
John A. Kitzhaber, MD, 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.wrd.state.or.us

November 15, 2013

WaterWatch of Oregon, Inc.
Attn: Lisa Brown
213 SW Ash, Suite 208
Portland, OR 97204

RE: Request for Notification of Proposed Municipal Extension Fishery Resource Protection Conditions for the following application for the City of Grants Pass:

Application S-34141 (Permit S-26901)
Application S-41672 (Permit S-45827)
Application S-64732 (Permit S-47346)

Dear Lisa,

The purpose of this letter is to provide you with notification as per your November 22, 2011 request pursuant to OAR 690-315-0080(2)(f) of Oregon Department of Fish and Wildlife's written advice on the above referenced municipal permit extension applications, and any fishery resource protection conditions that may be proposed in the proposed final orders under OAR 690-315-0050.

Sincerely,

Ann L. Reece
Water Rights Specialist

Enclosures

cc: Application File S-34141
Application File S-41672
Application File S-64732

S-34141

WATERWATCH

PROTECTING NATURAL FLOWS IN OREGON RIVERS

Lisa Brown
WaterWatch of Oregon
213 SW Ash Street, Suite 208
Portland, OR 97204

November 22, 2011

Dwight French
Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

RE: Request for Notification of Proposed Municipal Extension Fishery Resource Protection Conditions (November 22, 2011 Public Notice)

Dear Mr. French:

I am writing to request notification of any proposed fishery resource protection conditions for the seven municipal permit extension applications listed on the attached page from the November 22, 2011 OWRD Public Notice. This request is made pursuant to OAR 690-315-0080(2)(f) ("Upon receiving ODFW's written advice, the Department shall notify the applicant and any persons that requested notification of any fishery resource protection conditions that may be proposed in the proposed final order under OAR 690-315-0050").

Please do not hesitate to contact me at 503.295.4039 x4 or lisa@waterwatch.org if there are any questions regarding this request.

Sincerely,

LAB

Lisa Brown

Attachment: excerpt of Public Notice (2 pages)

cc: Ann Reece (by email only)

RECEIVED
NOV 23 2011
WATER RESOURCES DEPT
SALEM, OREGON

Pending Municipal Permit Extension Applications Sent to Oregon Department of Fish and Wildlife for Review

Consistent with OAR 690-315-0080 the Department must notify Oregon Department of Fish and Wildlife of certain pending municipal water use extension applications. If applicable under OAR 690-315-0080 any undeveloped portion of a municipal permit must be conditioned to maintain the persistence of listed fish species in the portions of waterways affected by water use under the permit. The following applications were referred to the Oregon Department of Fish and Wildlife on November 9, 2011.

Application File Number: S-8092
Permit Number: S-6703
Applicant: City of Medford
Water Source: Big Butte Springs, tributary to Big Butte Creek
Authorized Use of Water under Permit: Municipal

Application File Number: S-10120
Permit Number: S-6884
Applicant: City of Medford
Water Source: Big Butte Creek and Big Butte Springs, tributary to the Rogue River
Authorized Use of Water under Permit: Municipal

Application File Number: S-24211
Permit Number: S-20177
Applicant: City of Medford
Water Source: Big Butte Springs, tributary to Big Butte Creek; AND Willow Creek Reservoir, tributary to Will Creek
Authorized Use of Water under Permit: Municipal

Application File Number: S-29527
Permit Number: S-23210
Applicant: City of Medford
Water Source: The Rogue River, tributary to the Pacific Ocean
Authorized Use of Water under Permit: Municipal

Application File Number: S-64732
Permit Number: S-47346
Applicant: City of Grants Pass
Water Source: The Rogue River, tributary to the Pacific Ocean
Authorized Use of Water under Permit: Municipal

RECEIVED
NOV 23 2011
WATER RESOURCES DEPT
SALEM, OREGON

Application File Number: S-41672
Permit Number: S-45827
Applicant: City of Grants Pass
Water Source: The Rogue River, tributary to the Pacific Ocean
Authorized Use of Water under Permit: Municipal

Application File Number:S-34141
Permit Number: S-26901
Applicant: City of Grants Pass
Water Source: The Rogue River, tributary to the Pacific Ocean
Authorized Use of Water Under Permit: Municipal

RECEIVED
NOV 23 2011
WATER RESOURCES DEPT
SALEM, OREGON

34141

STATE OF OREGON

COUNTY OF JOSEPHINE

ORDER APPROVING AN ADDITIONAL POINT OF DIVERSION

Pursuant to ORS 537.211, after notice was given and no objections were filed, and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT 8032 submitted by

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS, OREGON 97526.

The permit to be modified is Permit 26901 with a date of priority of JULY 19, 1960. The permit allows the use of the ROGUE RIVER, a tributary of the PACIFIC OCEAN, for MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 25.0 cubic feet per second, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cubic feet per second, if available at the authorized point of diversion: NE¼ NW¼, SECTION 20, T 36 S, R 5 W, W.M.; 1133 FEET SOUTH AND 2870 FEET WEST FROM THE NE CORNER OF SECTION 20, or its equivalent in case of rotation, measured at the point of diversion from the source.

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

5. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Permit 26901, in the name of CITY OF GRANTS PASS WATER DEPARTMENT, is amended as described herein.

WITNESS the signature of the Water Resources Director, affixed AUG 20 1998.

For Martha O. Pagel, Director

34141

STATE OF OREGON

COUNTY OF JOSEPHINE

ORDER APPROVING AN ADDITIONAL POINT OF DIVERSION

Pursuant to ORS 537.211, after notice was given and no objections were filed, and finding that no injury to existing water rights would result, this order approves, as conditioned or limited herein, PERMIT AMENDMENT 8032 submitted by

CITY OF GRANTS PASS
101 NW "A" STREET
GRANTS PASS, OREGON 97526.

The permit to be modified is Permit 26901 with a date of priority of JULY 19, 1960. The permit allows the use of the ROGUE RIVER, a tributary of the PACIFIC OCEAN, for MUNICIPAL USE. The amount of water to which this permit is entitled is limited to an amount actually beneficially used and shall not exceed 25.0 cubic feet per second, provided further that the right to the use of water is limited to the period when the flow of the Rogue River at its mouth is more than 735 cubic feet per second, if available at the authorized point of diversion: NE¼ NW¼, SECTION 20, T 36 S, R 5 W, W.M.; 1133 FEET SOUTH AND 2870 FEET WEST FROM THE NE CORNER OF SECTION 20, or its equivalent in case of rotation, measured at the point of diversion from the source.

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

The authorized place of use is located as follows:

E½ NE¼ S½ SECTION 7	ALL SECTION 17
ALL SECTION 8	ALL SECTION 18
W½ SECTION 9	ALL SECTION 19
W½ SECTION 16	ALL SECTION 20
	NW¼ N½ SW¼ SECTION 21

TOWNSHIP 36 SOUTH, RANGE 5 WEST, W.M.

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

The applicant proposes an additional point of diversion at:

SE¼ NE¼, SECTION 24, T 36 S, R 6 W, W.M.; 2400 FEET SOUTH AND 540 FEET WEST FROM THE NE CORNER OF SECTION 24.

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

1. The quantity of water diverted at the new point of diversion, together with that diverted at the old point of diversion, shall not exceed the quantity of water lawfully available at the original point of diversion.

2. The water user shall install and maintain a headgate, an in-line flow meter, weir, or other suitable device for measuring and recording the quantity of water diverted. The type and plans of the headgate and measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

3. Water shall be acquired from the same surface water source as the original point of diversion.

4. All other terms and conditions of the permit remain the same.

5. The water user shall install and maintain a fish screen or fish by-pass device. The type and plans of the screen or by-pass device must be approved by the Oregon Department of Fish and Wildlife prior to beginning of construction and shall be installed under the supervision of the Department of Fish and Wildlife.

Permit 26901, in the name of CITY OF GRANTS PASS WATER DEPARTMENT, is amended as described herein.

WITNESS the signature of the Water Resources Director, affixed AUG 20 1998.

for Martha O. Pagel, Director

Abstract of Permit No. 26901

Application No. 31141 *Certificate No.*

Name City of Grants Pass Water Department

Address City Hall - 4th and "F" Streets
Grants Pass, Oregon

Source of water supply Rogue River

Use Municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue * 1133' S. and 2870' W. from the NE corner of Section 20, being within the NE¼ NW¼ of Section 20, T. 36 S., R. 5 W., W.M., in the county of Josephine.

Point of diversion

Number of acres

DESCRIPTION OF LAND TO BE IRRIGATED OR PLACE OF USE

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼
36 S	5 W	7	X			X					X	X	X	X	X	X	X	X
		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		9						X	X			X	X					
		16					X	X	X	X	X	X	X	X				
		17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		21					X	X	X	X	X	X						

~~* River at its mouth is more than 735 c.f.s.~~

Priority date July 19, 1960

Amount of water 25.0 c.f.s. measured at the point of diversion

Time limit to begin construction September 20, 1964

Time limit to complete construction 10/1/64 *extended to* 10-1-99 *extended to*

Time limit to completely apply water 10/1/64 *extended to* 10-1-99 *extended to*

Remarks:

mgh
Rogue River Misc.
Basin 15 Vol. 1

Water Rights Information Query Results

Name	Application	Permit	Certificate	Decree	Claim	Transfer	Status
CITY OF GRANTS PASS 101 NW A ST GRANTS PASS OR 97526 (details)	P74102	←	Pond for Livestock 21.52 AF	Use			NC
CITY OF GRANTS PASS 101 NW A ST GRANTS PASS OR 97526 (details)	S34141	S26901	25.0 cfs - MU - Rogue	River	priority = 7-	T8032	NC 19-60
CITY OF GRANTS PASS 101 NW 'A' STREET GRANTS PASS OR 97526 (details)	S41672	S45827	25.0 cfs - MU - Rogue	River	priority = 12-		NC 2-65
CITY OF GRANTS PASS 101 NW 'A' ST GRANTS PASS OR 97526 (details)	S64732	S47346	25.0 cfs - MU - Rogue	River	priority = 1-		NC 13-83

Page: **1**

Download Place of Use Data, Point of Diversion Data, or Owner Data

Definition of codes and abbreviations

Return to the Water Right Information search screen

Appl #S-34141
(permit S-26901)

STATE OF OREGON
WATER RESOURCES DEPARTMENT
INTEROFFICE MEMO

Date: September 4, 2002

TO: Lisa Juul

FROM: Bob Rice Bob

SUBJECT: City of Grants Pass Permit Extensions, S-26901, S-45827, S-47346

On August 30, 2002, I completed the formal review of the City of Grants Pass' Water Management and Conservation Plan (attached). I am waiting for the City's response to my comments to see if the Plan can be approved with a workplan.

Of possible importance to the permit extension process, is that it was unclear how future water demand was calculated. The City estimates that 18 mgd (28 cfs) will be needed in 2020. However, my calculations, using the City's 2 percent growth figure, would require a maximum daily quantity of 15 mgd (23 cfs) in 2020. Either number is considerably less than the 87.5 cfs of water rights that the City holds, of which 12 cfs is certificated.

I will keep you informed about development concerning the City's Water Management and Conservation, and would appreciate it if you would do the same regarding their permit extensions. If you have any questions, please let me know.

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

August 30, 2002

Rohel Amundson
Utilities Department Director
City of Grants Pass
101 NW "A" Street
Grants Pass, OR 97526

SUBJECT: Review of Water Management and Conservation Plan

Dear Mr. Amundson:

We have completed a review of the water management and conservation plan submitted by West Yost & Associates on behalf of the City of Grants Pass. We appreciate the work that you have done in developing the plan and the commitment to completing the planning process that you have shown.

Pursuant to OAR 690-86-910 (1), public notice of receipt of the draft plan was issued on June 18, 2002. The deadline for public comments was July 18, 2002. No comments were received. The Department reviewed the draft plan according to OAR 690-86-910 (3) and (4). The Department's detailed comments on the plan are found in Attachment 1.

An overview and summary of the comments is presented below:

1. The plan is well written and easy to understand, and does a good job of bringing together information that will provide the community with an understanding of its water management issues and options.

2. The evaluation of the conservation measures not currently being implemented should include a more rigorous quantitative analysis. Ideally, the Department's informal review of the plan would have been more explicit or the City would have called to clarify the type of information needed, which is a more detailed analysis of the costs and benefits associated with measures. This more detailed analysis could be included as a workplan item or as part of the plan update.

   The implementation status of several conservation measures is unclear. The adoption of inverted block water rates, additional bulk water dispensing stations, and a waste prohibition were scheduled for 2001; a low water use demonstration garden was scheduled for 2002; and, the distribution of plumbing kits scheduled for 2003. Additionally, a program to encourage low water use landscaping is indicated that it will be included in the next update of the City's code, but no schedule is listed.

3. The Department is pleased to see that the City has recently adopted a new water curtailment ordinance. Public work staff whom have been confronted by shortages have identified that as the last time to be planning for this emergency. With that in mind, the Department seeks greater clarity on both the triggers for the different alert levels and for the actions that the City will undertake during a water shortage.

4. It is unclear how future water demand was calculated.

You should be aware that the Department is in the process of amending the rules for water right extensions (OAR Chapter 690, Division 315) and the development of water management and conservation plans (OAR Chapter 690, Division 86). The proposed rules would more closely link these processes. The Department anticipates presenting amended rules for adoption by the Water Resources Commission on October 11, 2002. Depending on the standards in place when the City submits an updated plan or when the City needs to secure an extension of its water right permits, work may be needed to assess the feasibility and appropriateness of other conservation alternatives. Copies of the rulemaking notice and the draft rules can be found at http://www.wrd.state.or.us/cgi-bin/notices.pl?oar_notices.

The water management and conservation plan that you have submitted is generally consistent with the requirements of OAR 690-86-140. It addresses all requirements of the rules, but as discussed above, additional work is needed to more quantitatively analyze the conservation measures. Additional work is also needed to clarify the conservation measures implementation schedules, the triggers and actions the City will undertake during water shortages, and the City's future demand projections. Implementation of a work plan composed of the activities described in items 2 through 4 above would result in completion of the additional work necessary to satisfy the rule requirements.

Pursuant to OAR 690-86-910 (15) the Department will approve the plan submitted, if the City agrees to submit an updated plan by a prescribed date not exceeding 5 years from the date we approve the plan that includes the information described above and incorporates the results of the work plan activities. Please notify the Department in writing by October 1, 2002 if this approach is acceptable to the City.

At the present time, it is unclear what transition process, if any, will be in place for reviewing plans originally submitted under the existing rules. It is possible that plans would have to be reviewed under the proposed rules that are more rigorous. Consequently, I would appreciate a phone call from you once you have had a chance to review these comments, so that we can identify a course of action, and allow the Department to approve the plan under the existing rules prior to October 11, 2002, if that is your desire. My phone number is (503) 378-8455, extension 238.

I look forward to working with you.

Sincerely,

Bob Rice

Bob Rice
Field Services Division

Attachment 1: City of Grants Pass Water Management Worksheet

c: Lynne E. Chicoine, West Yost & Associates
Bruce Sund, Watermaster
Al Cook, SW Region Manager, w/o attachment

Attachment 1:

CITY OF GRANTS PASS
FORMAL REVIEW
WATER MANAGEMENT WORKSHEET
OAR 690-86

August 30, 2002

Plan Elements and Standards	*Notes*
690-86-140 A water management and conservation plan submitted by a municipal water supplier shall consist of the following elements:	
(1) A description of the water system that includes at least the following information:	
(a) Source(s) of water, water rights, storage and regulation facilities, transfers and exchange agreements, and intergovernmental cooperation agreements;	Complete.
(b) System capacity, limitations and opportunities for expansion under existing water rights;	Complete.
(c) Current average annual water use, peak seasonal demand, average and peak day demands, and quantities of water used from each source;	Complete.
(d) Description of customers served including the estimated numbers and general water use characteristics of residences, commercial and industrial facilities, and other uses;	Complete.
(e) Identification of interconnections with other municipal supply systems; and	Complete.
(f) A schematic of the system which shows the sources of water, storage facilities, treatment facilities, major transmission and distribution lines, pump stations, interconnections with other municipal supply systems, and the service area.	Complete.
(2) A water conservation element which includes at least the following:	
(a) A progress report on the conservation measures scheduled for	n/a

implementation in the water management and conservation plan previously approved by the Department, if any;	
(b) 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 690, Division 85, that a time extension or waiver has been granted, or that the standards are not applicable;	Complete.
(c) A description of other conservation measures, if any, currently implemented by the water supplier;	Complete.
(d) For each of the following conservation measures not currently being implemented, an evaluation of whether implementation of the measure is feasible and appropriate for ensuring the efficient use of water and the prevention of waste:	
	General Comments: A more rigorous quantitative feasibility analysis for most measures is desired. An example of this type of analysis can be found at: http://www.wrd.state.or.us/publication/pdfs/MuniConference-2001.pdf, slide #28.
(A) A system-wide leak repair program or line replacement to reduce system leakage to 15 percent, and if the reduction of system leakage to 15 percent is found to be feasible and appropriate, to reduce system leakage to 10 percent;	Complete. Electronic leak detection determined not to be feasible and appropriate.
(B) Programs to encourage low water use landscaping;	Incomplete. P. 4-4 indicates that conservation landscaping was not included in a recent update of the City's code, but that it will be included in a future update. Demonstration garden determined to be feasible and appropriate. Note: The City may want to consider addressing this element as a workplan item.
(C) Incentive programs that encourage conservation;	Incomplete. A more thorough evaluation is needed. Rebates for lawn replacement, efficient irrigation systems, and ultra low flow toilets determined not to be feasible and appropropriate. See http://www.wrd.state.or.us/publication/pdfs/MuniConference-2001.pdf, slide #28 for a sample feasibility analysis. Note: The City may want to consider addressing this element as a workplan item.

(D) Retrofitting or replacement of existing inefficient water using fixtures;	Incomplete. A more thorough evaluation is needed. Rebates for shower heads and faucets aerators determined to be too costly at $0.29/100 gallons saved. Production cost is listed at $0.04/100 gallons, but sewage treatment and avoided capital costs are not included. Rebates for ultra low flow toilets and retrofitting public facilities are also not feasible and appropriate. See http://www.wrd.state.or.us/publication/pdfs/MuniConference-2001.pdf, slide #28 for a sample feasibility analysis. Note: The City may want to consider addressing this element as a workplan item.
(E) Adoption of rate structures that support and encourage water conservation;	Complete. Determined to be feasible and appropriate.
(F) Water reuse opportunities; and	Complete. Determined to not be feasible.
(G) Any other conservation measures identified by the water supplier that would improve water use efficiency; and	Complete. Bulk water dispensing stations, although not strictly a conservation measure, is listed as it would reduce the unaccounted for water figures.
(e) A description and estimated schedule for implementation of each of the following conservation measures:	
(A) An annual audit of all water supplied;	Complete.
(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 plan;	Complete.
(C) A regularly scheduled program for leak detection for the transmission and distribution system;	Complete.
(D) A meter testing and maintenance program;	Complete.
(E) A public education program on efficient water use; and	Complete. A wastewater prohibition and the distribution of plumbing kits are identified as feasible and appropriate, and are scheduled for

	implementation in 2001, and 2003, respectively. What is the implementation status of these program elements?
(F) Any other conservation measures identified as feasible and appropriate under paragraph (d).	Complete. The plan identifies several measures that are feasible and appropriate that should be undertaken. These include: inverted block water rate rates (d)(E); low water use demonstration garden (d)(B); and bulk water dispensing stations (d)(G). The schedule for implementing these projects is 2001 and 2002. What is the implementation status of these program elements?
(3) A water curtailment element which includes at least the following:	
(a) A description of the 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;	Complete.
(b) 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;	Complete.
(c) A description of pre-determined levels of severity of shortage or water service difficulties which will trigger the curtailment actions under each stage of alert to provide the greatest assurance of maintaining potable supplies for human consumption; and	Incomplete/clarification needed. Table 5-2. Clearly identified, predetermined triggers help ensure that necessary actions are taken early in a crisis. The Stage One trigger needs to be described so that the 1-in-10 year flow level is clearly identified. According to USGS Report 90-118, the following is the 1-in-10 year flow level of the Rogue River at Grants Pass: January 1870 cfs February 2600 cfs March 2610 cfs April 2530 cfs May 2290 cfs June 1470 cfs July 975 cfs August 865 cfs September 875 cfs

	October 1070 cfs November 1340 cfs December 1580 cfs It is unclear under what circumstances the City's will declare a Stage One Water Shortage. Will it declare it if the Rogue drops below these flow levels for any month, or only for specific months? The Stage Two and Three triggers needs to be more objective. One way of doing this is to identify the number of days left that storage can be maintained, or the number of hours/days supply is interrupted, or defining what extended treatment plan operation would be required.
(d) A list of specific stand-by 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.	Incomplete/clarification needed. No specific actions are required — it is left to the discretion of the City Manager. The idea of triggers is that specific actions will occur. Each higher level of alert should incorporate all actions of prior alert levels. Stage 2: If current deliveries cannot be met, and voluntary restrictions have not adequately reduced demand, should any outdoor water uses be allowed? Stage 2 and 3:The limitations on the industrial and commercial users need to be stipulated. Some communities have done this by indicating that they will be limited to a percentage of the amount of water that they have usually used for a given time-period.
(4) A long-range water supply element which includes at least the following:	
(a) A description of the water supplier's expected future service area and an estimate of the water supplier's long-range water demand projections for 10 and 20 years which are supported by a methodology which demonstrates consistency with acknowledged comprehensive land use plans of affected local governments and any relevant urban service agreements	Complete. However, it is unclear what growth rate is being assumed. A 2 percent demand growth rate is assumed for the water treatment plant capacity (p. 2-7). If this value is used, and the peaking factor remains constant, then the year 2020 maximum water demand is approximately 15 mgd (23 cfs), which is lower than the 18 mgd estimate listed in Tables 1-5, and 6-2. The calculation for how future demands were determined should be included in the appendix.

(b) A comparison of the projected water needs and the system capacity and size and reliability of water rights, permits or other current water supply contracts held by the water supplier; and	Complete.
(c) If future demand projections indicate that additional water will be required within the next 20 years, the plan shall include:	n/a
(A) A comparison between the potential sources of additional water, including conservation, reuse and interconnection with other municipal supply systems, which considers costs, availability, reliability, and likely environmental impacts; and	n/a
(B) An estimated schedule for development of any new sources of water identified in paragraph (A) as needed to meet the demand projections and a description of the criteria used in the selection of the sources.	n/a
(5) (a) A proposed date for submittal of an updated water management and conservation 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	Complete. The Water Resources Commission is considering changes to the Municipal Extension Rules (OAR Chapter 690, Division 315) and the Water Management and Conservation Management Plan, OAR 690-086, rules at its October 11, 2002 meeting. If the proposed changes are adopted, the demand projections as well as other parts of this plan may need to be clarified or revised to receive a permit extension.
(b) An explanation of why submittal of an updated plan is unnecessary and should not be required by the Department.	Complete.

TRANSMITTAL COVER SHEET

RECEIVED
DEC 23 2005
WATER RESOURCES DEPT
SALEM, OREGON

WHERE THE ROGUE RIVER RUNS
GRANTS PASS
OREGON
© City of Grants Pass

DATE: DECEMBER 21, 2005

SUBJECT: *PENDING APPLICATION FOR EXTENSION OF TIME*
WATER RIGHT APPLICATION S-34141 (PERMIT S-26901)
WATER RIGHT APPLICATION S-41672 (PERMIT S-45827)
WATER RIGHT APPLICATION S-64732 (PERMIT S-47346)

TO: MS. LISA JARAMILLO
WATER RIGHTS SPECIALIST
WATER RESOURCES DEPARTMENT
725 SUMMER STREET NE, SUITE A
SALEM, OR 97301-1271

ATTN:

WE ARE SENDING YOU VIA:

X	USPS		FEDEX		UPS		OTHER

	DRAWINGS/PLANS		PHOTOGRAPHS		COPY OF LETTER		CD-R
	SPECIFICATIONS		MEETING MINUTES		CHANGE ORDER		OTHER

THESE ITEMS ARE TRANSMITTED AS CHECKED BELOW:

	FOR YOUR APPROVAL		AS REQUESTED
X	FOR YOUR FILES		FOR REVIEW AND COMMENT

COPIES	DATE	DESCRIPTION

COMMENTS:

SIGNED:

Janelle Schindler

JANELLE SCHINDLER
OFFICE ASSISTANT I
101 Northwest "A" Street • Grants Pass, Oregon 97526 • (541) 474-6355 • Fax (541) 479-6765

City of Grants Pass
"Where The Rogue River Runs"

August 6, 2002

Water Resources Division
Attn: Lisa Juul
Commerce Building
158 12th Street, NE
Salem, OR 97301-4172

RE: WATER PERMIT EXTENSION APPLICATION

Dear Ms. Juul:

The City of Grants Pass is in the process of collecting all of the information needed to complete the forms necessary to submit our applications for the extension of the following water permits: Permit No. 26901 for 25 cfs with a priority date of July 19, 1960, Permit No. 45827 for 25 cfs with a priority date of December 2, 1965, and Permit No. 64732 for 25 cfs with a priority date of January 13, 1983.

Appl# Permit is 47346

Enclosed you will find our application fee for these permit extensions totaling $300.00 ($100.00 for each permit). If you need any further information at this time, you may contact the Water Treatment Plant Supervisor and myself at the numbers and addresses listed below. Applications will follow as soon as they are completed.

Rohel Amundson, City of Grants Pass Utilities Director

101 NW "A" St.
Grants Pass, OR 97526

541-474-6355 ext. 6328

ramundson@ci.grants-pass.or.us

Jason Canady, City of Grants Pass Water Treatment Plant Supervisor

101 NW "A" St.
Grants Pass, OR 97526

541-474-6353

jasonm11_68@charter.net

Thank you for your assistance in this matter.

Yours truly,

Rohel W. Amundson

Rohel W. Amundson
Utilities Director

cc: Richard Glick, Davis Wright & Tremaine
Jason Canady, Water Treatment Plant Supervisor
William A. Peterson, Jr., City Manager
File

RECEIVED
AUG 14 2002
WATER RESOURCES DEPT.
SALEM, OREGON

(000)000-0000 CHECK NO. 58018

DATE	INVOICE	DESCRIPTION	DPDV EL OB	AMOUNT
08/06/2002	WTR PERMIT EXT	WTR PERMIT EXTENSION APPS 6901-39-04		300.00

RECEIVED
AUG 14 2002
WATER RESOURCES DEPT.
SALEM, OREGON

WATER RIGHT PERMIT EXTENSIONS 4582 TOTAL ********300.00

File #S-34141

MEMORANDUM

Date: September 3, 2002

To: Appl #S-34141 (Permit #S-26901)
Appl #S-41672 (Permit #S-45827)
Appl #S-64732 (Permit #S-47346)

From: Lisa Juul, Permit Extension Review

Subject: City of Grants Pass - Water Management Plan and Water Distribution System Master Plan

---

On September 3, 2002, the City of Grants Pass submitted a copy of their Water Management Plan (June 2002) and their Water Distribution System Master Plan (January 2001) to the Department along with Extension of Time applications for the above referenced permits.

The Water Management Plan and Water Distribution System Master Plan documents have been forwarded to Bob Rice, WRD Southwest Regional Liaison, for review and safe-keeping.

STATE OF OREGON
WATER RESOURCES DEPARTMENT

RECEIPT # 54815

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION	See below
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # ☒ 24-22 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 300.00

0417 WRD MISC CASH ACCT

S 41672 – $100.00
S 64732 $100.00
S 34141 $100.00

	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)	_____			$
(New) TC162	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		$

427 OTHER (IDENTIFY) Ext. of time $300.00

0437 WELL CONST. START FEE

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

_____ OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS $

0467 HYDRO ACTIVITY LIC NUMBER

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

RECEIPT # 54815 DATED: 8/14/02 BY: Connie Vance

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

T36S R6W W.M

JOSEPHINE COUNTY

1" = 200'

36 6 2

RECEIVED
MAR 6 1978
WM. DIST. 14
GRANTS PASS, ORE.

SEE MAP 36 6 13C

N.E. Cor. Lot 4

N 89°06'E

1/4 COR.

ROGUELEA LN.

DRIVE

ROGUELEA

LOWER RIVER ROAD HIGHWAY NO. 260

LANE

SUMMER LANE

RIVERSIDE LATERAL

WEBSTER

CANCELLED
1205
1206
490
1690
1201
1202
1203

700 .070Ac.
600 9.31Ac.
500 2.12Ac.
402 1.00 Ac.
400 26.07 Ac.
300 2.17 Ac.
100 0.34Ac.
201 2.53 Ac.
1400 3.25Ac.
401 1.01 Ac.
301 0.88 Ac.
200 0.60 Ac.
1500 3.92Ac.
1800 1.18 Ac.
1801 0.24Ac.
2000 1.05Ac.
1900 2.31 Ac.
1700 3.95 Ac.
1700 1600 28.79 Ac.

C.S. 166-66
C.S. 106-62
C.S. 134-62
C.S. 107-73

See W.D. OWEN SUB B 1-62
See W.D. OWEN SUB 10 3-62

RECEIVED
SEP 25 1980
WATER RESOURCES DEPT
SALEM, OREGON

SEE MAP 36 6 24A

CITY OF GRANTS PASS - GRANTS PASS, OREGON

Amount	Description	Date	Amount Payable
10.00	CAPITAL MAINS	AUG 17 60	10.00

	DEDUCTIONS							
Total Earned	State Witholding Tax	Federal Witholding Tax	Federal Social Security	Hospital	Miscellaneous	Advance	Period Ending	Net Earned

3M 4-20-58 PROCTOR, PROMPT PRINTER

Employee's Statement of earnings and deductions. Detach before cashing. Retain this stub as your record.

CITY OF GRANTS PASS - GRANTS PASS, OREGON

Amount	Description	Date	Amount Payable
58.00	WATER RIGHT APP.	JUL 13 60	58.00

	DEDUCTIONS							
Total Earned	State Witholding Tax	Federal Witholding Tax	Federal Social Security	Hospital	Miscellaneous	Advance	Period Ending	Net Earned

3M 4-20-58 PROCTOR, PROMPT PRINTER

Employee's Statement of earnings and deductions. Detach before cashing. Retain this stub as your record.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CITY OF GRANTS PASS
~~PO BOX 771~~
GRANTS PASS OR 97526
COURTHOUSE

34141

4a. Article Number
P56549

4b. Service Type
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
6-6-95

5. Signature (Addressee)

6. Signature (Agent)
[signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, December 1991 ☆U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Oregon

WATER
RESOURCES
DEPARTMENT

August 14, 1995

CITY OF GRANTS PASS
101 NW A STREET
GRANTS PASS OR 97526

RE: Files 34141, 41672, & 64732

Your applications for extension of time to complete work under Permits Number 26901, 45827, and 47346 along with your checks in the amount of $300 have been received.

Your requests are approved by Special Order Volume 49, Page 205. The time limits for completion of work are extended to October 1, 1999.

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

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

If you have questions concerning this extension or other water right matters, please call the Water Rights/Adjudication Division. All Divisions of the Department may be reached at the following telephone numbers:

1-(800) 624-3199 (toll-free within Oregon) or (503) 378-3739.

Sincerely,

Dallas Miller
Water Rights Specialist

DM:jh

Enclosure

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

STATE OF OREGON
WATER RESOURCES DEPARTMENT
158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

RECEIPT # 119179 INVOICE # _____

RECEIVED FROM: City of Grants Pass
BY: _____

APPLICATION	34141
PERMIT	36901
TRANSFER	

CASH: ☐ CHECK: # ☒ 24.22 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 300.00

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 FEES		$
880.109	MISC REVENUE: (IDENTIFY)	Extension	$ 100.00
520.000	OTHER (P-6) (IDENTIFY)	_____	$

WATER RIGHTS:		EXAM FEE		RECORD FEE
842.001	SURFACE WATER	$	842.002	$
842.003	GROUND WATER	$	842.004	$
842.005	TRANSFER	$	842-006	$

WELL CONSTRUCTION		EXAM FEE		LICENSE FEE
842.022	WELL DRILL CONSTRUCTOR	$	842.023	$
	LANDOWNER'S PERMIT		842.024	$

_____ OTHER (IDENTIFY) _____

06-00-0 WELL CONST. START FEE

842.013	WELL CONST START FEE	$	CARD #	
_____	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

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 # 119179 DATED: 11-25-94 BY: D. Bushnell

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

690-10-116

File No. _____

RECEIVED
JUN - 2 1995
WATER RESOURCES DEPT.
SALEM, OREGON

RECEIVED
NOV 25 1994
WATER RESOURCES DEPT.
SALEM, OREGON

Application for Extension of Time

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
Name

101 N.W. "A" Street
Mailing Address

Grants Pass, OR 97526
City, State, Zip

record owner of water permit No. 26901, do hereby request that the time in which to:

☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 19___, be extended to October 1, 19___; and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time, now expires on October 1, 19 94 be extended to October 1, 19 99

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

(1) within the past year 4.5 MILES OF MUNICIPAL WATERLINES

;

(2) prior to this past year 10 MILES OF MUNICIPAL WATERLINES

;

(3) and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) since Oct 1989 we have added 857 new connections for water service. We registered a peak water usage of 9,009,100.
(If additional space is required, attach separate sheet)

Wm J Stapleton City Attorney
(If signing for a corporation please identify your title)

Dated 5-31-95

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

WATER RESOURCES DEPARTMENT
158 12TH STREET NE
SALEM OR 97310

PEAK DAY FLOWS

RECEIVED
JUN - 2 1995
WATER RESOURCES DEPT.
SALEM, OREGON

YEAR	MONTH	FLOW	
1989	JUNE, 18th	7,432,500	= 11.1 CFS
1990	AUG, 6th	7,934,900	
1991	JULY, 3rd	9,009,100	
1992	JUNE,25th	8,526,100	
1993	JULY, 9th	8,735,100	
1994	AUG,1st	8,974,600	= 13.9 CF

Oregon

WATER
RESOURCES
DEPARTMENT

RECEIVED
JUN - 2 1995
WATER RESOURCES DEPT.
SALEM, OREGON

January 9, 1995

CITY OF GRANTS PASS
101 NW 'A' ST
GRANTS PASS, OR 97526

REFERENCE FILES: 34141, 41672, AND 64732

We have received $300 from you along with three requests to extend the time limits of your permits 26901, 45827, and 47346.

Each application will have to be signed and the signatory's title given. We also need more information. How many new services have been added to the system since October 1989? What was the maximum amount of water appropriated from the Rogue River during peak periods?

Each of the permits allows you to divert 25 cubic feet of water per second (CFS). An earlier certificate of water right describes a right to the use of 12.5 CFS, also from the Rogue River. As your demands for water usage increases, you will be able to make proof of use of water for the permits. When 12.5 CFS plus 25 CFS has be diverted beneficially, a final proof survey to verify use will be conducted for permit 26901 and a certificate issued. Similarly, another certificate will be issued for permit 45827 when 62.5 CFS has been diverted and eventually the final certificate will confirm use of 87.5 CFS when permit 47346 has been maximized. We really need information regarding your use each time you ask for an extension.

Further action will be withheld on your files for a reasonable length of time pending your reply.

Sincerely,

Thomas E. Shook
Water Right Specialist

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

RECEIVED
JUN - 2 1995
WATER RESOURCES DEPT.
SALEM, OREGON

May 31, 1995

Thomas E. Shook
Oregon Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97310-0210
PH 378-3739
FAX 378-8130

City of Grants Pass
101 Northwest A Street
Grants Pass, Oregon 97526
503-474-6360

RE: Reference Files 34141, 41672, and 64732;
Permits # 26901, 45827, and 47346.

Dear Mr. Shook,

The letter you sent requesting additional information regarding the City's use of their permits has been forwarded to me. I am enclosing the permit information forms with a copy of our peak loads during the past 6 years.

If I can provide you with any additional information, please do not hesitate to contact me. Thank you for your time and attention.

Sincerely,

Ulys Stapleton
City Attorney

Oregon

WATER
RESOURCES
DEPARTMENT

May 31, 1995

CITY OF GRANTS PASS
PO BOX 771
GRANTS PASS OR 97526

REFERENCE: Files 34141, 41672 & 64732

According to the terms of your Permits 26901, 45827, and 47346 complete application of water was to have been made by October 1, 1994.

Complete application of water means use of the water for the beneficial purpose described in the permit to the full extent intended. (In the case of irrigation, it means beneficial irrigation of the lands the permittee intends to cover.) This may be a smaller amount than the permit allowed. If the water has been used, you should promptly submit notice describing the extent of completion as set forth in the letter accompanying your permit and also in our postal card of October 18, 1994.

ORS 537.260 provides that: "Whenever the time within which any appropriation under a permit should have been perfected has expired and the owner of the permit fails or refuses within three months thereafter to submit to the Water Resources Director proof of completion of the appropriation as required by ORS 537.230 and 537.250, the Water Resources Director may, after 60 days notice by registered mail, order the cancellation of the permit."

You are hereby notified that, unless proof of beneficial use is received within 60 days from the date of this letter, the permit may be canceled without further notice.

If you are no longer interested in the project described by the permit, we would appreciate being advised. If the property involved has been sold and any part of the project was completed, you should assign the permit to the new owner. An assignment form will be furnished upon request.

If additional information is needed, please contact the Water Rights Section at 378-3739 or toll-free 1-800-624-3199.

Sincerely,

Dallas Miller
Water Rights Specialist

DM:jh

CERTIFIED - RETURN RECEIPT REQUESTED

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

Oregon

WATER
RESOURCES
DEPARTMENT

January 9, 1995

CITY OF GRANTS PASS
101 NW 'A' ST
GRANTS PASS, OR 97526

REFERENCE FILES: 34141, 41672, AND 64732

We have received $300 from you along with three requests to extend the time limits of your permits 26901, 45827, and 47346.

Each application will have to be signed and the signatory's title given. We also need more information. How many new services have been added to the system since October 1989? What was the maximum amount of water appropriated from the Rogue River during peak periods?

Each of the permits allows you to divert 25 cubic feet of water per second (CFS). An earlier certificate of water right describes a right to the use of 12.5 CFS, also from the Rogue River. As your demands for water usage increases, you will be able to make proof of use of water for the permits. When 12.5 CFS plus 25 CFS has be diverted beneficially, a final proof survey to verify use will be conducted for permit 26901 and a certificate issued. Similarly, another certificate will be issued for permit 45827 when 62.5 CFS has been diverted and eventually the final certificate will confirm use of 87.5 CFS when permit 47346 has been maximized. We really need information regarding your use each time you ask for an extension.

Further action will be withheld on your files for a reasonable length of time pending your reply.

Sincerely,

Thomas E. Shook
Water Right Specialist

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

NEIL GOLDSCHMIDT
GOVERNOR

Water Resources Department

3850 PORTLAND ROAD NE, SALEM, OREGON 97310 PHONE 378-3739

June 28, 1990

CITY OF GRANTS PASS
101 NW A STREET
GRANTS PASS OR 97526

Reference Files: 64732, 41672 and 34141

Your applications for extension of the time limits to complete construction and make complete application of water under the terms of your Permits 47346, 45827 and 26901 were received. We also have your check for $300.

The application indicates reasonable diligence toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are extended to October 1, 1994.

Sincerely,

STEVEN P. APPLEGATE
Manager, Application/Permit Section

0285W

receipts enclosed

690-10-116 File No. 34141

Application for Extension of Time

RECEIVED
JUN 20 1990
WATER RESOURCES DEPT.
SALEM, OREGON

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass (Name)

101 N.W. "A" Street (Mailing Address)

Grants Pass (City), Oregon (State) 97526 (Zip),

record owner of water permit No. 26901, do hereby request that the time in which to:

☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1989, be extended to October 1, 1994; and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1989, be extended to October 1, 1994

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

(1) within the past year as described in Exhibits A, E and F;

(2) prior to this past year as described in Exhibits A, B, C, D and F;

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

(If additional space is required, attach separate sheet)

City Attorney (If signing for a corporation please identify your title)

Dated June 15, 1990

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

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

City of G.P. - WR info
A-64732 25 cfs RR 4/13/83
A-41672 25 cfs RR 12/2/65
A-34141 25 cfs RR 7/19/60
Cert 15839 12.5 cfs RR 1888
Max use - 7.27 MGD (7/88) = 5049 GPM = 11.2 cfs

JUN 0 6 1990

MEMO

EXHIBIT A

TO: Ulys Stapleton

FROM: Joanne Stumpf

SUBJECT: New Water Services

DATE: June 5, 1990

RECEIVED
JUN 20 1990
WATER RESOURCES DEPT.
SALEM, OREGON

Information has been collected and summarized for new water services. Taken from the Water Application Service forms for the calendar years 1987, 1988, and 1989, respectively, the data details the number of new services by classification of use and also by size of meter. In addition, the number of upsizings is also provided.

	Calendar Year 1987	Calendar Year 1988	Calendar Year 1989
New Water Services			
Single Family Dwellings	131	95	91
Duplexes	7	7	4
Commercial	31	11	16
Multi-Family	21	14	18
(# of Units being served)	(57)	(41)	(195)
Public	0	0	2
Total Number of New Services	190	127	131
New Water Services By Size			
3/4"	180	122	118
1"	9	2	7
1-1/2"	1	2	3
2"	0	1	1
3"	0	0	2
Total Number of New Services	190	127	131
Upsizing Changes			
3/4" to 1"	0	1	1
3/4" to 1-1/2"	0	0	2

cc: J. Adams
G. Geer
C. Kincaid
D. Tryk
D. Wheaton

EXHIBIT B

February 3, 1987

RECEIVED
JUN 30 1990
WATER RESOURCES DEPT
SALEM, OREGON

Department of Human Resources
Health Division
1400 S.W. 5th Avenue
Portland, Oregon 97201
Attention: Mr. James Boydston

RE: 1986 Public Water Improvement Projects

The following is a list of Public Water Improvements approved by the City of Grants Pass and installed in 1986:

1. PROJECT NO. - FY 85-~~3~~9
   PROJECT NAME - 7TH Street Watermain Replacement
   DESIGN ENGINEER - David Wright, City Engineer
   LENGTH/SIZE/MATERIAL - 1140 Lineal Feet of 8 Inch Ductile Iron
   CONTRACTOR - Mace's Excavation and Construction
   DEVELOPER - N/A

2. PROJECT NO. - FY 86-43
   PROJECT NAME - Brentwood Village P.U.D.
   DESIGN ENGINEER - David Reece
   LENGTH/SIZE/MATERIAL - 310 Lineal Feet of 8 Inch Ductile Iron
   CONTRACTOR - Mace's Excavation and Construction
   DEVELOPER - Fazser Bros. and Sons

3. PROJECT NO. - FY 86-62
   PROJECT NAME - Country View Mobile Home Park
   DESIGN ENGINEER - David Reece
   LENGTH/SIZE/MATERIAL - 720 Lineal Feet of 8 Inch Ductile Iron
   CONTRACTOR - Mace's Excavation and Construction
   DEVELOPER - Mr. William Gresham

4. PROJECT NO. - FY 86-63
   PROJECT NAME - Rogue Terrace P.U.D.
   DESIGN ENGINEER - David Reece
   LENGTH/SIZE/MATERIAL - 385 Lineal Feet of 10 Inch Ductile Iron
   CONTRACTOR - Mace's Excavation and Construction
   DEVELOPER - Mr. John Magallon

5. PROJECT NO. - FY 86-64
   PROJECT NAME - Prospect Subdivision
   DESIGN ENGINEER - David Reece
   LENGTH/SIZE/MATERIAL - 95 Lineal Feet of 8 Inch Ductile Iron
   CONTRACTOR - Peterson Construction

DEVELOPER - Fazser Bros. and Sons

6. PROJECT NO. - FY 87-76
PROJECT NAME - Quail Crossing Road
DESIGN ENGINEER - Larry Rains
LENGTH/SIZE/MATERIAL - 270 Lineal Feet of 6 Inch Ductile Iron
CONTRACTOR - Peterson Construction
DEVELOPER - Richard Ward and Darwin Wolber

Sincerely,

David A. Poole
Engineering Technician II

cc: General File, Health Division
CF
ECF
Dave Wheaton, Utility Superintendent

EXHIBIT C

April 5, 1988

RECEIVED
JUN 20 1990

Department of Human Resources
Health Division
1400 S.W. 5th Street
Portland, Or. 97201

Attn: Mr. James Boydston

The following is a list of Public Water Improvements approved by the City of Grants Pass and installed in 1987.

1. PROJECT NUMBER - FY 86-59
   PROJECT NAME - Fruitdale Water Local Improvement District
   DESIGN ENGINEER - David Wright, City Engineer
   LENGTH, SIZE & MATERIAL - 1510 Lineal feet of 30 inch, 8430 Lineal feet of 8 inch, and 1290 Lineal feet of 6 inch Ductile Iron Pipe
   CONTRACTOR - Marv's Utility Specialists, Salem, Or.
   DEVELOPER - N/A

2. PROJECT NUMBER - FY 87-73
   PROJECT NAME - Meadow Glen Subdivision, 1st Addition
   DESIGN ENGINEER - David Reece, Albany, Or.
   LENGTH, SIZE & MATERIAL - 370 Lineal feet of 8 inch Ductile Iron Pipe
   CONTRACTOR - Gary Peterson Construction, G.P., Or.
   DEVELOPER - Timothy Cummings

3. PROJECT NUMBER - FY 87-84
   PROJECT NAME - Leisure Estates Condominiums
   DESIGN ENGINEER - David Reece, Albany, Or.
   LENGTH, SIZE & MATERIAL - 80 Lineal feet of 8 inch Ductile Iron Pipe
   CONTRACTOR - Mace's Excavation & Construction, G.P., Or.
   DEVELOPER - Don Lonas & Duane Swenston

4. PROJECT NUMBER - FY 87-85
   PROJECT NAME - Oregon Heights Subdivision
   DESIGN ENGINEER - T.J. Bossard and Associates, G.P., Or.
   LENGTH, SIZE & MATERIAL - 1185 Lineal feet of 8 inch Ductile Iron Pipe
   CONTRACTOR - Mace's Excavation & Construction, Grants Pass
   DEVELOPER - Eastwood & Jacoby Construction, G.P., Or.

5. PROJECT NUMBER - FY 88-87
PROJECT NAME - Parkdale Water Local Improvement District

DESIGN ENGINEER - David Wright, City Engineer
LENGTH, SIZE & MATERIAL - 515 Lineal feet of 30 inch and 40 Lineal feet of 24 inch Ductile Iron Pipe
CONTRACTOR - Marv's Utility Specialists, Salem, Or.
DEVELOPER - N/A

6. PROJECT NUMBER - FY 88-90
PROJECT NAME - Oakview Water Local Improvement District
DESIGN ENGINEER - David Wright, City Engineer
LENGTH, SIZE & MATERIAL - 230 Lineal feet of 6 inch Ductile Iron Pipe
CONTRACTOR - City of Grants Pass Water Crew
DEVELOPER - N/A

We apologize for the delay in submitting this report to you. If we can be of further assistance please call the office of the City Engineer at 474-6355. Thank You.

Sincerely,

David A. Poole
Engineering Technician II

cc: CF
ECF
Dave Wheaton, Utility Superintendent
GENERAL FILE, Health Division Annual Water Report

EXHIBIT D

September 25, 1989

RECEIVED
JUN 20 1990
WATER RESOURCES DEPT
SALEM, OREGON

Department of Human Resources
Health Division
1400 S.W. 5th Street
Portland, Or. 97201

Attn: Mr. James Boydston

The following is a list of Public Water Improvements approved by the City of Grants Pass and installed in 1988.

1. PROJECT NUMBER: FY 89-821
PROJECT NAME: Gilbert Creek Subdivision
DESIGN ENGINEER: David Reece, Albany, Or.
UTILITY IMPROVEMENTS: 555 feet of 8" Ductile Iron Water Pipe
CONTRACTOR: Mace's Excavation
DEVELOPER: Eastwood and Jacoby Construction

2. PROJECT NUMBER: FY 89-818
PROJECT NAME: Highland View Subdivision
DESIGN ENGINEER: David Reece, Albany, Or.
UTILITY IMPROVEMENTS: 400 feet of 8" Ductile Iron Water Pipe
CONTRACTOR: Mace's Excavation
DEVELOPER: Eastwood and Jacoby Construction

3. PROJECT NUMBER: FY 89-833
PROJECT NAME: Mesman Estates Subdivision, Phase I
DESIGN ENGINEER: Gary D. Wicks
UTILITY IMPROVEMENTS: 1686 feet of 8" Ductile Iron Water Pipe and 590 feet of 12" Ductile Iron Water Pipe
CONTRACTOR: Marv's Utility Specialist's, Salem Or.
DEVELOPER: Willard Deakins

4. PROJECT NUMBER: FY 88-992 (City Contract)
PROJECT NAME: Hilltop LID
DESIGN ENGINEER: City of Grants Pass
UTILITY IMPROVEMENTS: 1410 feet of 8" Ductile Iron Water Pipe and 980 feet of 4" Ductile Iron Water Pipe
CONTRACTOR: Marv's Utility Specialist's, Salem Or.
DEVELOPER: N/A

5. PROJECT NUMBER: FY 88-807 (City Contract)
PROJECT NAME: Marion Lane Water
DESIGN ENGINEER: City of Grants Pass
UTILITY IMPROVEMENTS: 800 feet of 8" Ductile Iron Water Pipe
CONTRACTOR: Mace's Excavation
DEVELOPER: N/A

We apologize for the delay in submitting this report to you. If we can be of further assistance please call the office of the City Engineer at 474-6355. Thank You.

Sincerely,

David A. Poole
Engineering Technician II

cc: CF
ECF
Dave Wheaton, Utility Superintendent
GENERAL FILE, Health Division Annual Water Report

EXHIBIT E

DATE: _____

RECEIVED
JUN 20 1990
WATER RESOURCES DEPT
SALEM, OREGON

Department of Human Resources
Health Division
1400 S.W. 5th Street
Portland, Or. 97201

Attn: Mr. James Boydston

The following is a list of Public Water Improvements approved by the City of Grants Pass and installed in 1989.

1. PROJECT NUMBER: FY 89-812
   PROJECT NAME: Heidi Estates Subdivision
   DESIGN ENGINEER: David Reece, Albany, Or.
   UTILITY IMPROVEMENTS: 595 feet of 8" Ductile Iron Water Pipe
   CONTRACTOR: Mace's Excavation
   DEVELOPER: Olen Nations

2. PROJECT NUMBER: FY 89-833
   PROJECT NAME: Mesman Estates Subdivision, Phase II
   DESIGN ENGINEER: Gary D. Wicks
   UTILITY IMPROVEMENTS: 1488 feet of 8" Ductile Iron Water Pipe
   CONTRACTOR: Marv's Utility Specialist's, Salem Or.
   DEVELOPER: Willard Deakins

3. PROJECT NUMBER: FY 89-824
   PROJECT NAME: Goff Way
   DESIGN ENGINEER: David Reece, Albany, Or.
   UTILITY IMPROVEMENTS: 520 feet of 8" Ductile Iron Water Pipe
   CONTRACTOR: Mace's Excavation
   DEVELOPER: Ken Bolch

4. PROJECT NUMBER: FY 89-874
   PROJECT NAME: Westbrook Commercial Subdivision
   DESIGN ENGINEER: David Reece, Albany, Or.
   UTILITY IMPROVEMENTS: 867 feet of 8" Ductile Iron Water Pipe
   CONTRACTOR: Mace's Excavation
   DEVELOPER: Reservation Ranch, Smith River, Ca.

5. PROJECT NUMBER: FY 89-822
   PROJECT NAME: Quail Run Subdivision
   DESIGN ENGINEER: David Reece, Albany, Or.
   UTILITY IMPROVEMENTS: 354 feet of 4" Ductile Iron Water Pipe
   CONTRACTOR: Charles Shipley
   DEVELOPER: Charles Shipley

6. PROJECT NUMBER: FY 89-829
PROJECT NAME: Gaffney Heights Subdivision
DESIGN ENGINEER: David Reece, Albany, Or.
UTILITY IMPROVEMENTS: 1070 feet of 8" Ductile Iron Water Pipe and 798 feet of 4" Ductile Iron Water Pipe
CONTRACTOR: Mace's Excavation
DEVELOPER: Walker, Cummings, Atkins, and Lovelace

7. PROJECT NUMBER: FY 89-823
PROJECT NAME: Gaffney Way Water (City Contract)
DESIGN ENGINEER: T.J. Bossard and Associates
UTILITY IMPROVEMENTS: 2030 feet of 20" Ductile Iron Water Pipe and 72 feet of 8" Ductile Iron Water Pipe
CONTRACTOR: Southern Oregon Underground, Medford, Or.
DEVELOPER: N/A

8. PROJECT NUMBER: FY 89-825
PROJECT NAME: "N" Street Multifamily Development
DESIGN ENGINEER: David Reece, Albany, Or.
UTILITY IMPROVEMENTS: 663 feet of 12" Ductile Iron Water Pipe and 440 feet of 8" Ductile Iron Water Pipe
CONTRACTOR: Mace's Excavation
DEVELOPER: Richard and Beverly Ruggiero

8. PROJECT NUMBER: FY 90-894
PROJECT NAME: NVIA/Met One Water Extension
DESIGN ENGINEER: David Bassett
UTILITY IMPROVEMENTS: 1700 feet of 10" Ductile Iron Water Pipe and 100' of 8" Ductile Iron Water Pipe
CONTRACTOR: Southern Oregon Underground
DEVELOPER: Josephine County

If we can be of further assistance please call the office of the City Engineer at 474-6355. Thank You.

Sincerely,

David A. Poole
Engineering Technician II

cc: CF
ECF
Dave Wheaton, Utility Superintendent
GENERAL FILE, Health Division Annual Water Report

EXHIBIT F

ANNUAL SUMMARY YEAR 1988

MONTH	EFF TOT	MGD MAX	MGD MIN	TOT RAIN	AIR TEMP MAX	AIR TEMP MIN	EFF PH MAX	EFF PH MIN	CL2	ALUM LBS	ALUM MG/L	KMNO4 LBS	LIME LBS	FILT AID LBS	CARBON LBS
JAN	73.09	4.30	1.38	6.08	60	24	7.3	6.9	.8	15240	22.7	158.2	7820	1.51	0
FEB	70.07	4.38	1.68	.18	72	24	7.4	6.9	.8	8219	12.5	112.9	5430	4.12	0
MAR	79.07	4.25	.52	1.00	78	23	7.2	7.0	1.3	7842	10.4	124.8	3210	6.16	0
APR	89.78	5.39	2.02	2.07	88	27	7.2	6.9	1.1	10229	11.9	148.1	4489	7.68	0
MAY	100.45	4.74	2.07	2.22	93	33	7.2	7.0	1.0	14446	15.6	218.2	4885	9.56	0
JUN	123.61	7.05	.90	1.21	96	36	7.5	6.9	1.0	17084	15.6	245.2	4620	9.85	0
JUL	185.60	7.27	4.27	0.00	109	42	7.3	7.0	.8	21281	12.2	67.9	4058	5.86	831
AUG	108.50	7.03	4.45	.06	104	45	7.4	7.1	1.0	19800	11.7	103.8	7086	0.00	746
SEP	142.50	6.38	2.67	.04	108	32	7.3	7.1	.9	17097	13.1	85.9	6822	1.07	635
OCT	107.90	4.61	2.59	.04	80	32	7.4	7.2	1.0	12474	12.6	217.4	8020	0.00	0
NOV	83.50	4.41	0.00	9.14	67	30	7.5	6.9	1.0	14136	20.2	182.9	9762	3.73	0
DEC	70.56	3.62	0.00	2.72	63	20	7.3	7.0	1.0	12971	17.9	118.7	8728	7.52	0
TOT	1234.63	63.43	22.55	24.76	1018	368	80.5	83.9	11.7	170819	176.4	1784.0	74930	57.06	2212

RECEIVED
JUN 20 1990
WATER RESOURCES DEPT.
SALEM, OREGON

ANNUAL SUMMARY YEAR 1989

MONTH	EFF TOT	MGD MAX	MGD MIN	TOT RAIN	AIR TEMP MAX	AIR TEMP MIN	EFF PH MAX	EFF PH MIN	CL2 LBS	ALUM LBS	ALUM MG/L	KMNO4 LBS	LIME LBS	FILT AID LBS	CARBON LBS
JAN	65.14	3.09	0.00	3.33	59	39	7.3	6.9	2240	18083	23.2	154.3	10158	14.04	0
FEB	66.99	3.18	0.00	1.63	63	12	7.4	7.1	1885	13800	20.3	108.6	5315	9.73	0
MAR	66.38	3.04	0.00	6.35	68	26	7.4	7.1	1985	18622	28.6	164.5	4975	12.78	0
APR	79.65	4.45	0.00	3.20	86	34	7.3	6.9	1940	12462	15.6	133.0	1568	10.45	0
MAY	101.23	4.61	1.65	.87	87	31	7.1	7.0	1715	13424	14.2	9.0	545	9.98	849
JUN	150.53	6.56	3.01	.02	96	41	7.1	6.9	2570	18065	12.6	.6	712	8.58	1829
JUL	163.77	6.60	3.47	0.00	97	42	7.1	6.9	2655	20139	13.1	0.0	2268	9.01	1971
AUG	159.21	6.34	3.03	.20	100	40	7.1	6.9	2730	20618	13.8	0.0	4290	7.79	2372
SEP	122.13	5.48	2.17	1.16	98	40	7.1	6.9	2685	8655	16.4	0.0	4778	8.22	2406
OCT	88.92	3.77	1.86	2.63	86	26	7.1	7.0	2220	4913	17.9	201.6	3380	6.15	38
NOV	70.17	4.44	0.00	1.18	66	27	7.1	6.9	1520	9001	12.6	158.1	1847	5.16	0
DEC	74.10	4.31	0.00	.92	65	22	7.1	7.0	1530	8985	11.6	131.2	2058	5.57	0
TOT	1208.22	55.87	15.19	21.49	971	380	86.2	83.5	25675	166767	199.9	1060.9	41894	107.46	9465

ANNUAL SUMMARY YEAR 1987

MONTH	EFF TOT	MGD MAX	MIN	TOT RAIN	AIR TEMP MAX	MIN	EFF PH MAX	MIN	CL2	ALUM LBS	MG/L	KMNO4 LBS	LIME LBS	FILT AID LBS	CARBON LBS
JAN	67.54	3.89	1.36	5.12	49	31	8.0	6.7	.9	21353	30.1	142.2	10437	21.55	0
FEB	63.89	4.27	.61	5.24	53	43	7.1	6.4	.9	18605	27.4	176.7	9809	15.33	0
MAR	73.86	3.01	.54	3.47	60	37	7.2	6.9	.9	16509	22.6	158.5	9489	13.34	0
APR	94.15	5.04	1.53	.31	73	40	7.2	6.8	.8	14403	16.8	158.0	8402	11.83	0
MAY	138.66	5.58	2.40	.22	76	46	7.2	6.9	.8	15889	12.8	222.7	8835	15.06	0
JUN	160.99	7.03	3.87	.06	89	52	7.2	7.0	.8	13060	11.8	252.8	7283	15.00	333
JUL	153.75	7.11	2.37	1.08	84	52	7.3	6.9	.8	17619	13.0	38.5	9382	0.00	1692
AUG	172.94	6.73	4.46	T	93	51	7.2	7.0	.8	16077	11.1	271.4	8137	0.00	144
SEP	124.05	5.70	3.10	0.00	84	45	7.3	7.0	.8	13601	11.6	175.5	5781	0.00	722
OCT	107.84	4.48	2.45	.06	79	40	7.1	6.9	.9	11358	11.2	7.0	5121	0.00	2342
NOV	75.78	4.73	1.92	2.65	55	38	7.4	5.9	.9	8256	11.7	23.0	3907	0.00	565
DEC	73.98	4.20	1.19	6.83	47	33	7.3	6.7	.9	17240	24.7	170.3	7757	13.12	0
TOT	1307.43	61.77	26.20	26.05	843	506	87.5	83.1	10.2	191931	204.8	1798.8	83355	105.48	6103

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

City of Grants Pass
Water Department
4th & H Streets, City Hall
Grants Pass, OR 97526

4. Article Number
56476

Type of Service:
- ☐ Registered
- ☐ Insured
- ☒ Certified
- ☐ COD
- ☐ Express Mail
- ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Stacy Phelps

7. Date of Delivery
4-23-90

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 * U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

~~6711-344~~ 34141 F100

NEIL GOLDSCHMIDT
GOVERNOR

Water Resources Department

3850 PORTLAND ROAD NE, SALEM, OREGON 97310 PHONE 378-3739

April 20, 1990

City of Grants Pass
Water Department
City Hall, 4th and H Streets
Grants Pass, OR 97526

Reference File: 34141

According to the terms of your Permit 26901 complete application of water was to have been made by October 1, 1989.

Complete application of water means use of the water for the beneficial purpose described in the permit to the full extent intended. (In the case of irrigation, it means beneficial irrigation of the lands the permittee intends to cover). This may be a smaller amount than the permit allowed. If the water has been used, you should promptly submit notice describing the extent of completion as set forth in the letter accompanying your permit and also in our postal card of October 18, 1989.

ORS 537.260 provides that: "Whenever the time within which any appropriation under a permit should have been perfected has expired and the owner of the permit fails or refuses within three months thereafter to submit to the Water Resources Director proof of completion of the appropriation as required by ORS 537.230 and 537.250, the Water Resources Director may, after 60 days notice by registered mail, order the cancellation of the permit."

As provided in ORS 537.260, you are hereby notified that, unless proof of beneficial use is received within 60 days from the date of this letter, the permit may be canceled without further notice.

If you are no longer interested in the project described by the permit, we would appreciate being advised. If the property involved has been sold and any part of the project was completed, you should assign the permit to the new owner. An assignment form will be furnished upon request.

If additional information is needed, please contact the Applications/Permits Section.

CERTIFIED - RETURN RECEIPT REQUESTED

Received by State Engineer, Dec. 8, 1928

Applications Nos. 5189 and 6155
Permits Nos.

BC 99 7-19-60

Application No. 34141

Permit No. 26901

Name City of Grants Pass Water Department

Address City Hall, 4th & "H" Streets, Grants Pass, Ore

Assigned

Beginning construction September 20, 1964

Completion of construction October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79 10-1-84 10-1-89 10-1-99

Complete application of water October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79 10-1-84, 10-1-89 10-1-99

For proof Proof mailed

For cert.

Form 111—2M—1-60 State Printing 25604

Name City of Grants Pass Water Department

By City Hall, 4th and "H" Streets

Address Grants Pass, Oregon 97526

Date filed July 19, 1960

Priority July 19, 1960

Action suspended until ... Agent

Returned to applicant

Date of approval September 20, 1960

CONSTRUCTION

Date for beginning September 20, 1964

Date for completion October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79
10-1-84 10-1-89 10-1-94

Date for application of water October 1, 1964

Extended to 10-1-69 10-1-74 10-1-79
10-1-84 10-1-89 10-1-94

PROSECUTION OF WORK

Form "A" filed October 4, 1961

Form "B" filed

Form "C" filed

FINAL PROOF

Blank mailed

Proof received

Date certificate issued

Application No. 34141

Permit No. 26901

Certificate No.

Stream Index, Page No. 15 – 60F

Date
7-19-60
8-23-60
6-20-90
Extension 11-25-94

FEE

Date

ASSIGNMENTS

Date	To Whom	Address
	Vested C-10933	

REMARKS

25.0 c.f.s. from Rogue River for municipal.

SEP 22 1981 CARD FOR A

OCT 16 1984 CARD FOR C

OCT 30 1969 CARD FOR B-C

OCT 15 1974 CARD FOR B-C

Card for BC OCT 23 1979

Card for BC OCT 19 1984

Card for BC OCT 18 1989

Form 100 sent APR 20 1990

C Card 10-18-94

W.R.I.S.

Assembled 7.19.85 by

Entered ____ by ____

Verified ____ by ____

VICTOR ATIYEH
GOVERNOR

Water Resources Department

MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8508

January 24, 1985

City of Grants Pass
101 NW "A" Street
Grants Pass, OR 97526

REFERENCE: Files 34141 and 64732

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your Permits 26901 and 47346 have been received. We also have your check in the amount of $200.00.

The applications indicate reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water under both permits are being extended to October 1, 1989.

Sincerely,

Bruce A. Estes, Supervisor
Survey/Certificate Section

BAE:jvm

Enclosures

690-10-116

File No. 34141

Application for Extension of Time

RECEIVED
JAN 21985
WATER RESOURCES DEPT
SALEM, OREGON

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
Name

101 N.W. "A" Street
Mailing Address

Grants Pass, Oregon 97526,
City State Zip

record owner of water right permit No. 26901, do hereby request that the time in which to:

☐ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 19....., be extended to October 1, 19.....; and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1984, be extended to October 1, 1989.

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

within the past year .....

.....

.....;

prior to this past year .....

.....

.....;

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

.....

.....

(If additional space is required, attach separate sheet)

J. Michael Casey, City Manager
(If signing for a corporation please identify your title)

Dated December 27, 1984

$100.00
1-2-85
#45160

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF [redacted] TO:

$100

Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

B-C
10-1-89
Bal

SP*35675-690

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

RECEIVED
OCT 15 1982
WATER RESOURCES DEPT.
SALEM, OREGON

October 13, 1982

James E. Sexson
Director, Water Resources Department
555 13th Street N.E.
Salem, Oregon 97310

Dear Mr. Sexson:

This letter is a request to yourself and your staff to come to Grants Pass and discuss the option of the City in amending our water rights. Mr. Ron Bergman has informed us that you are aware, to some degree, of our problem.

The City would like to furnish water to a proposed industrial park site. The property is owned by Josephine County and lies outside of the serviceable area granted in our water rights. We would need to modify one of our water documents for legal service.

Mr. Bergman has indicated that you would be willing to come down and discuss our options and explain the process. I would anticipate an informal meeting.

Very truly yours,

Peter M. Linden

Peter M. Linden
Grants Pass City Attorney

PML/dz

STATE OF OREGON

INTEROFFICE MEMO

TO: Mr. Larry Jebousek
Water Resources Department

DATE: September 4, 1980

FROM: Robert B. Steimer
Watermaster, District #14

SUBJECT: MAP

Enclosed is a copy of the map we talked about, showing the old city limit lines in 1887, the line at about 1901, the Irrigation District boundary in 1928, and present city limits, 1980.

I hope this might be of some help to you in your discussion with the city of Grants Pass.

RBS:br

Enclosure

81-125-1379

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

RECEIVED
OCT 0 1 1980
WATER RESOURCES DEPT
SALEM, OREGON

September 29, 1980

James E. Sexson
Director
Water Resources Department
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

Dear Jim,

This letter is to confirm our telephone conversation subsequent to your September 4, 1980 letter regarding the use of our 1888 Water Right. You will recall that we were concerned about making commitments for water service within the urban growth boundary that might not be able to be met, should your office in the future have a different "interpretation" than it does at the present time. The result of the conversation was that you would be scheduling a meeting directly with us on your next trip to southern Oregon which you thought might occur in the latter portion of September. Since we are now in this time frame, please let me know at your earliest convenience when a meeting can be scheduled.

Sincerely,

Ron S. Bergman
City Manager

RSB/dz
CF #170-80

VICTOR ATIYEH
GOVERNOR

Water Resources Department

714 N.W. "A" STREET, GRANTS PASS, OREGON 97526 PHONE 474-5385

September 24, 1980

Water Resources Department
555 13th Street N. E.
Salem, Oregon 97310

RECEIVED
SEP 25 1980
WATER RESOURCES DEPT
SALEM, OREGON

Attention: Larry Jebousek

Dear Larry:

I am sending you an aerial photo and copies of the Assessor's maps showing the location of the Rogue Lea Mobile Home Park. It is about one half mile outside the city limits. I am also enclosing a letter written by me to Chris Wheeler concerning this matter. So far as I know, I never received any written answer.

The aerial photo does not indicate the proper number of units as they have been added to and the park is also being enlarged, according to what I understand.

The other trade the City Manager made outside the city limits and outside the urban growth boundary is in Lot 7 in the SW 1/4 of the SW 1/4, Section 6, Township 36 South, Range 5 West, W. M. The property is recorded in the name of Doyle. It is my understanding a deal was made to furnish water to this parcel after it has been annexed to the city, and there has been a request filed for a zone change.

It seems to me if we allow these things to happen we are going to have trouble within the urban growth boundary; and, so far as the Watermaster enforcing the water law is concerned, it is going to be ridiculous.

Yours truly,

Robert B Steimer

Robert B. Steimer
Watermaster, District #14

RBS/sj

October 27, 1967

RECEIVED
SEP 25 1980
WATER RESOURCES DEPT
SALEM. OREGON

Chris L. Wheeler
State Engineer
Salem, Oregon

Dear Chris:

I was out yesterday working on a survey of the Means property located in Lot 3 in the SE¼NW¼ of Section 24, Township 36 South, Range 6 West, W.M.

Mr. Means is the owner of a new trailer park and is being furnished with water from the City of Grants Pass. I discussed this with Mr. Means and he maintains that he has a 10 page contract with the City of Grants Pass giving him the right to use city water. I have previously mentioned this to the City of Grants Pass, but have taken no action concerning it. Mr. Means' property is located approximately ½ mile to the west of the city limits.

So far as I can determine the City of Grants Pass water right is for use within the corporate limits of the city on the 1888 right. Their 1960 right does not cover the lands owned by Means.

Mr. Means maintains the city attorney, Mr. Balderee, the City Council, the County Court and the Planning Commission were all parties to this arrangement. I told Mr. Means I thought the whole bunch were wrong.

I would appreciate your thoughts and advice as to how you feel a situation of this nature should be handled.

Very truly yours,

Robert B. Steimer
Watermaster, District #14

RS:dc

378-2982 or
1-800-452-7813

September 4, 1980

Ron S. Bergman
City Manager
101 NW "A" Street
Grants Pass, OR 97526

Dear Ron:

I'm sorry our explanations have not been clear.

The City's 1888 water right was vested at the time of 1919 Rogue River decree and as such cannot be enlarged or extended in any manner. The decree established the place of use as being "within the corporate limits of the City of Grants Pass."

This particular place of use was not mapped in the proceeding as were most other claims. The only reason the Grants Pass Irrigation District map was even referred to is that it is the only map in our records that indicates the City of Grants Pass boundaries in that time period.

If the City or any concerned water user would produce an official plat of the city limits dated 1919, that would have to be the limit of the place of use for the 1888 water right, whether it be smaller or larger than the area shown on the irrigation district map. I don't know why the City would want to do this because I personally believe the area designated by the District is probably very generous in favor of the City.

The 1960 permit can be expanded under the terms of the permit to fulfill its intent. As indicated earlier, the pending 1965 application could be approved to supply the entire urban growth boundary plus future expansion if so described.

The Watermaster is not normally called upon to check the use of water within the city limits of any municipality if the quantities of water allowed by the various rights are not being exceeded and no other water users are being shut off.

The Rogue River Basin Program Statement has set minimum instream flows at 1200 cubic feet per second at Savage Rapids Dam and 935 cubic feet per second at the mouth of the river. This allows for the consumptive use of 265 cubic feet per second between these points without affecting the established minimum flows. Realistically, I do not believe either the 1960 permit or 1965 pending application would be curtailed by minimum flows.

Sincerely,

JIM SEXSON
Director

JES/LWJ:wpc
2157A

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

RECEIVED
AUG 26 1980
WATER RESOURCES DEPT
SALEM, OREGON

August 21, 1980

Jim Sexson
Director of Water Resources Department
555 13th Street N.E.
Salem, Oregon 97310

Dear Jim:

We received a letter from Larry Jebousek in response to my August 7, 1980 letter confirming my understandings of the use of our water rights. In his August 19, 1980 letter he makes reference to our 1880 Right and its limitations imposed by the Irrigation District's 1916 maps. Quite frankly, I do not understand the significance of these maps as they relate to our water rights; particularly in light of our earlier telephone conversation.

I would appreciate your clarifying the situation with particular reference to the citation in the 1880 Right referencing the "city limits" as a place of use for the water.

Thank you very much for your help and assistance in this matter. Don't forget, next time when you are in the area I'll be glad to give you a trip on the world famous Rogue River.

Sincerely,

Ron S. Bergman
City Manager

RSB/jp
CF #136-80

VICTOR ATIYEH
GOVERNOR

Water Resources Department
MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8453

August 19, 1980

Ron S. Bergman
City Manager
101 NW "A" Street
Grants Pass, Oregon 97526

Dear Ron:

In the Director's absence, I will reply to your letter of August 7, 1980. Your understanding of our earlier conversation is generally correct, with one exception.

The 1888 water right was vested at the time of the decree and neither the quantity of water nor the area of use can be enlarged. The service area at that time appears to be larger than many had anticipated, as shown on the Grants Pass Irrigation District's 1916 maps. That would be the extent of this right.

Sincerely,

Larry W. Jebousek
Administrator
Water Rights Division

LWJ:lcj
cc: Robert B. Steimer, Watermaster

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

RECEIVED
AUG 08 1980
WATER RESOURCES DEPT
SALEM, OREGON

August 7, 1980

Jim Sexson
Director of Water Resources Department
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

Dear Jim:

Thank you for your letter of August 5, 1980 which cited the history of our water rights. However, I was still a bit confused in light of our telephone conversation of August 4, so I thought a clarifying letter would be in order. Therefore this letter will set forth my understanding of the requirements of our water rights.

Both the city's water rights, i.e. the 1880 certificate and the 1960 permit, can be utilized to serve the entire urban growth boundary area, provided the city does not do so through the wholesale delivery of water to some other water agency or district. Furthermore, service extensions outside the city limits must be made in a logical fashion radiating out from the city itself. This is not to say that each and every parcel must be receiving service, as the system radiates out, but that unserved parcels should have the ability to be served as they develop to urban standards. However we must be careful not to "skip over" or leapfrog whole areas to provide service to outlying tracts.

But should this leapfrogging be desirable, it would be your suggestion that we consummate our arrangements with the Corps of Engineers and activate our pending 1965 Application No. 41672.

Thank you for your help and assistance in this matter of mutual concern; and please let me know if I'm mistaken in my interpretation of your letter and our conversation.

Sincerely,

Ron S. Bergman
City Manager

RSB/jf
CF #127-80

VICTOR ATIYEH
GOVERNOR

Water Resources Department
MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-2982

August 5, 1980

Honorable Richard M. Smith
Mayor of Grants Pass
101 Northwest A Street
Grants Pass, Oregon 97526

Ronald S. Bergman
City Manager of Grants Pass
101 Northwest A Street
Grants Pass, Oregon 97526

Gentlemen:

As discussed at out meeting July 19, 1980, my staff has carefully reviewed the status of all water rights for the City of Grants Pass.

The Rogue River Water Company submitted a claim in Rogue River Adjudication proceeding for the use of 10 million gallons of water per day (15.5 cubic feet per second) for domestic, irrigation and power uses for the City of Grants Pass and its inhabitants. The stated place of use was "throughout the city". Unlike most claims, this use was not mapped as part of the proceeding.

In 1919, the decree of the court allowed the Rogue River Water Company 12.5 cfs (8 million gallons per day) for municipal and domestic uses, and irrigation, with a date of priority of 1888, "within the corporate limits of the City of Grants Pass".

The Grants Pass Irrigation District application map submitted in 1916 shows the location of the City of Grants Pass as the S½ of Sections 7 and 8, all of Sections 17 and 18, and that part of Sections 19 and 20 north of the Rogue River (copy enclosed). Barring strong evidence to the contrary, this would be considered the place of use for the 12.5 cfs evidenced by certificate 15839.

Permit No. 26901 authorized the use of an additional 25 cfs for municipal use with a priority date of July 19, 1960. Even though the application and map showed the proposed place of use as the, then, city limits, all supporting data indicated the intent of the project was to serve the needs of the city, well into the 1980's, and estimated that a total of 37.5 cfs would be required to satisfy the maximum daily demands.

CH_2M's 1960 report estimated the maximum daily demand in 1980 of 24.75 cfs, based on a population of 21,000.

Trevor Jones' letter to Robert C. Hahmann, Assistant City Engineer, dated December 13, 1967, answers a similar request, stating: "At the time of proof, we generally do not restrict municipal rights specifically to those fractional parts of a Section described in the original application. If the use area was expanded as a result of selling water to a separate water district, I don't think this would apply, but if the expansion is a result of the change in city limits or servicing from areas immediately adjacent to the city, I think this could be done."

As indicated by Mr. Jones, and again by Larry Jebousek in his letter of December 11, 1979 to Allen Coon, the formation of and selling of water to a separate water district, in this case the area within urban growth boundary, would not be within the intent of permit No. 26901. In fact, the water users/tax payers of the city might have a basis for objecting if "their" 1960 permit was "used up" by non-tax-paying suburbanites.

The correct procedure would be to issue the permit approving your pending 1965 application, No. 41672, to serve the larger area when this project materializes. If costs were greater for the expanded service, it could be more easily documented so proper charges could be made.

I believe the city is proceeding in a proper manner to protect and serve the water needs of its inhabitants well into the future.

Sincerely,

James E. Sexson
Director

JES/LWJ:lcj
cc: Robert B. Steimer, Watermaster

Enclosures

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

RECEIVED
JUL 23 1980
WATER RESOURCES DEPT
SALEM, OREGON

July 21, 1980

Jim Sexson
Director of Water Resources Department
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

Dear Mr. Sexson:

This letter will confirm that since our letter of July 1, 1980 we have had the opportunity to discuss with you and representatives of the Corps of Engineers the water allocation from Lost Creek Reservoir. From these discussions we have confirmed that the 45,000 acre feet reserved for irrigation and municipal purposes is in accordance with the original congressional authorization. The only question is whether or not this amount will be reserved in accordance with the proposed segregation of 10,000 acre feet for municipal purposes and 35,000 acre feet for irrigation purposes or consolidated into a combined pool.

Both interpretations have advantages and disadvantages for the City of Grants Pass. On the one hand, the aggregation of the storage provides a larger "pie" out of which we may get our requested 6700 acre feet; yet at the same time, the irrigation users may have a more immediate need for the water. And should the allocation be made on a first come first serve basis, we could be edged out of a water appropriation lest we contract for water long before our actual needs. This strategy would be a considerable unnecessary expense for the water users of the Grants Pass Municipal System.

On the other hand, a segregation of the allocation into separate municipal and irrigation allotments would guarantee a level of municipal water. But because the municipal allocation is already severely over-subscribed, the same sort of advance "competition" might be necessary with the added expense.

As we discussed, our primary concern is the ability to meet our responsibilities for water service to the urban growth boundary outside the existing city limits. As you know, the city

has an 1888 certificate for 12.5 cfs. We also hold a 1960 permit for 25 cfs. The combination of these rights will serve the projected urban growth boundary population to around 1990 to 1995, if we could utilize these for that purpose. Thus in this instance, the need for Lost Creek water could be deferred for some time. However, if we are not permitted to utilize these rights for this purpose, our need for Lost Creek storage water would become much more immediate; probably within the next two years.

If the 1888 and/or 1960 right could be utilized for serving the urban growth boundary, our immediate concern could be resolved. It is our understanding that you have agreed to research this question and advise us in the near future. Thus if the water needs for the urban growth boundary around the City of Grants Pass can be accommodated, we would have no objection to your allocation plan. We look forward to building a better working relationship and we trust that we will be able to work together in resolving the water issues of the Rogue Valley.

Sincerely,

Richard M. Smith
Mayor

Ron S. Bergman
City Manager

RMS/RSB/dz
CF #124-80

cc: Governor Atiyeh
Water Policy Review Board
Pat Amedeo
Oregon Congressional Delegation
Jack Donaldson
Bob Barbo
Dale Evans
Dave Henrix
Bob Steimer
E. D. "Debbs" Potts
Cecil Johnson
Mayor & Council
Colonel Terrence J. Connell

ROBERT W. STRAUB
GOVERNOR

Water Resources Department
MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8508

December 13, 1979 34141

City of Grants Pass Water Department
City Hall
4th and "H" Streets
Grants Pass, Oregon 97526

Dear Sirs:

Your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your permit numbered 26901 was received. We also have your check in the amount of $10.00.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1984.

Sincerely,

Bruce A. Estes, Supervisor
Survey/Certificate Section

BAE:kas

Enc.

COPY

VICTOR ATIYEH
GOVERNOR

Water Resources Department

MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8453

December 11, 1979

Allan H. Coon
Grants Pass City Attorney
101 NW "A" St.
Grants Pass, OR 97526

RE: Files No. 34141, R-41671 and 41672

Dear Mr. Coon:

A permit sets the limits to which a water right can be perfected. The Water Resources Director has limited discretionary powers to allow minor changes in the making proof of beneficial use under a permit. The changes that may be allowed must fall within the initial intent of the permit.

The Urban Service Policy Agreement now being developed is obviously new and of sufficient size so it can not be considered within the intent of the 1960 permit.

An application can be amended and enlarged at any time up to the time of issuance of the permit. The City's pending application numbered 41672 has been amended to designate the urban growth boundary as the place of use. Copies of these applications require a fee of $2.75 be submitted.

Action on applications numbered R-41671 and 41672 is being withheld pending the contract with the Army Corps of Engineers for storage and release of municipal water from the Lost and Elk Creek project.

I appreciate the magnitude of your problem and will be happy to work with you and the City of Grants Pass to search out possible alternatives.

One possible alternative now exists. The Grants Pass Irrigation District is now in the process of making proof under its permit. Once the certificate is issued, this right would be subject to a change in character of use transfer. The rapid growth within the Irrigation District boundaires has also caused them considerable problems. As growth continues, lands are no longer irrigated. Water used for these lands could be transferred to municipal use benefiting all the people within the urban growth boundaries.

I have been working with the Grants Pass Irrigation District and expect to be in Grants Pass within the next 4 to 6 weeks.

I will notify you of my next trip and perhaps we could discuss this problem in greater detail.

Sincerely,

LARRY W. JEBOUSEK
Administrator
Water Rights Division

LWJ:tld

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

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DEC - 3 1979
WATER RESOURCES DEPT
SALEM, OREGON

November 30, 1979

Bruce A. Estes, Supervisor
Water Resources Department
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

3141

RE: City of Grants Pass, File No. 3141, Permit No. 26901

Dear Mr. Estes:

We have received a copy of your letter of November 28, 1979. The city wishes to request reconsideration of your department's decision to deny our request to include the Grants Pass Urban Growth Boundary Area within Permit No. 26901.

We are requesting reconsideration because we feel that we may have been remiss in not supplying your department with sufficient information with our initial request. We requested expansion of Permit No. 26901 due to legal and social developments during the last four years. As is common in many Oregon cities, the City of Grants Pass has experienced rapid urban level growth just outside the city limits. This urbanizing area in the unincorporated county has been designated as our urban growth boundary area. The State of Oregon, through the Land Conservation and Development Commission (LCDC), now requires, under color of law, that cities and counties develop a plan and cooperate their efforts to provide municipal level services to their respective urban growth boundary areas. Municipal level services include a domestic water supply. The City of Grants Pass and Josephine County, in developing the LCDC required plan, have determined that the City of Grants Pass shall provide the water source with the jurisdictions sharing the costs and responsibilities of the treatment and distribution systems. This is the only feasible plan the city and county can arrive at because:

1. the City of Grants Pass holds the only existing water permit capable of serving the urban growth boundary area;

2. even if Josephine County had a usable permit or certificate, and they don't, they do not have a treatment facility necessary for the provision of domestic water; and

3. even if Josephine County had the raw water supply and a treatment facility, it would not be wise for them to provide the domestic water for the urban growth boundary area as it would engender a "twin city" development pattern which is neither a physically nor economically sound system of development.

As you can see, there are some very sound reasons for our request to expand Permit No. 26901 to include the urban growth boundary area. We are therefore requesting reconsideration of our request and would like the opportunity to present our case to your department. Representatives of the City of Grants Pass would like the opportunity to discuss our proposal with your staff, answer questions and provide the necessary information which you may require.

Finally, by separate letter, the City of Grants Pass will request that the urban growth area be included under permits R-41671 and 41672 if and when such permits are granted. Since the timing of the new permits is unknown and since the water needs of the urban growth area need attention now, we are pursuing the request for reconsideration above stated.

Best personal regards.

Very truly yours,

Allan H. Coon
Grants Pass City Attorney

AHC/dz

ROBERT W. STRAUB
GOVERNOR

Water Resources Department

MILL CREEK OFFICE PARK
555 13th STREET N.E., SALEM, OREGON 97310 PHONE 378-8508

34141
R-41671
41672

November 28, 1979

Allan H. Coon
Grants Pass City Attorney
101 NW "A" Street
Grants Pass OR 97526

Dear Mr. Coon:

We've received your letter of November 1, 1979, regarding the City of Grants Pass permit 26901 along with the monies involved for an extension of time. The extension is being addressed in another letter.

You requested information regarding the availability of including the urban growth boundary within the permit 26901. This was discussed at staff level and the determination was that it is a major change from that which was filed on. We normally allow a water right for a municipality to include new lands that have been annexed after the time; however, this is not the case here. Therefore, we feel that this large expansion should not be included within the permit.

The City of Grants Pass has two other filings not yet issued permits, which are for the use of the storage water from several reservoirs on the Rogue River Water Shed. Since the contract has not been awarded by the Corps of Engineers to the City of Grants Pass, and therefore the permits are not able to be issued, it could well be that you may wish to identify a portion of that storage onto this urban growth boundary area along with a filing for direct flow from the Rogue River. Please notify this office if you wish to have that urban growth area included under the permits when issued for R-41671 and 41672 applications. A copy of your November 1 letter along with this one will be places in those files.

Please let us know if we can be of any help in this matter.

Sincerely,

Bruce A. Estes, Supervisor
Survey/Certificate Section

BAE:cjw

COPY

690-10-116

File No. 34141

Application for Extension of Time

RECEIVED
NOV - 2 1979
WATER RESOURCES DEPT
SALEM, OREGON

TO THE WATER RESOURCES DIRECTOR OF OREGON

I, City of Grants Pass
Name
101 N.W. "A" Street
Mailing Address
Grants Pass, City, Oregon, State 97526, Zip,

record owner of water right permit No. 26901, do hereby request that the time in which to:

☒ complete the construction of works and/or purchase and installation of the equipment necessary to the use of water, which time now expires on October 1, 1979, be extended to October 1, 1984; and/or the time in which to

☒ accomplish beneficial use of water to the full extent now intended under the terms of said permit, which time now expires on October 1, 1979 be extended to October 1, 1984

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

within the past year June 26, 1979, $11,265,000 bond issue passed for construction of water reservoirs, pumping stations, water transmission lines, and related improvements.;

prior to this past year continual expansion of water system as development occurs.;

and have accomplished beneficial use of water to the extent of (IF FOR IRRIGATION, STATE HOW MANY ACRES HAVE BEEN IRRIGATED) domestic uses within the city limits.

SEE ATTACHED LETTER.

(If additional space is required, attach separate sheet)

(If signing for a corporation please identify your title)
Ron S. Bergman, City Manager

Dated November 1, 1979

receipt # 14836
$10.00
11-2-79

MAIL COMPLETED APPLICATION AND STATUTORY FEE OF $10.00 FOR EACH PERMIT TO:

Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

B-C
10-1-84
BAE

SP*35675-690

city of grants pass
101 n.w. "a" street
grants pass, oregon 97526
(503) 476-8801

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NOV - 5 1979
WATER RESOURCES DEPT
SALEM, OREGON

R-41671
41672

November 1, 1979

Bruce A. Estes
Water Resources Department
Mill Creek Office Park
555 13th Street, N.E.
Salem, Oregon 97310

Re: City of Grants Pass,
File No. 34141, Permit No. 26901

Dear Mr. Estes:

Pursuant to our telephone conversation of Monday, October 29, 1979, I enclose an application for extension of time pertaining to the above referenced permit along with our check for $10.00. As we discussed, the City of Grants Pass will apply for certification upon population of our water service area attaining sufficient size to fully utilize the permitted 25 cfs.

As I explained to you in our telephone conversation, the City of Grants Pass and Josephine County are in the process of formulating what we call an Urban Service Policy Agreement. Basically, this agreement is a coordination agreement, as required by LCDC, between the city and the county, pertaining to the providing of urban services outside of the present city limits of Grants Pass but within the designated urban growth boundary area. Although all of the aspects of this agreement have not been agreed upon, it is clear that the City of Grants Pass will be providing the raw water supply for the urban growth boundary area.

As we discussed, the "place of use" pertaining to Permit No. 26901 is an area roughly equivalent to the existing Grants Pass city limits. Therefore, in order for us to meet our urban growth responsibilities we would like to amend our permit "place of use" to include all areas within the Urban Growth Boundary. To that end I enclose a map showing the existing city limits, the existing urban growth boundary area and the section numbers pertaining to the urban growth boundary area.

I understand that you will submit our request to the Water Resources Director and we will receive written confirmation if and

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NOV - 2 1979
WATER RESOURCES DEPT
SALEM, OREGON

when our request is authorized.

Please contact me if you need any further information.

Very truly yours,

Allan H. Coon
Grants Pass City Attorney

AHC/so
Enc. - 3

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NOV - 2 1979
WATER RESOURCES DEPT
SALEM, OREGON

	City Limits	Urban Growth Boundary
Township 36 South, Range 5 West:		
Sec. 5 a) Sec. 6 b)	SW¼ of Sec. 5	Westerly ½ of SE¼ of Sec. 5 SE¼, and the NW¼ of the SW¼, and the SE¼ of the NW¼ of Sec. 6
Sec. 7 c)	All Sec. 7	
Sec. 8 d)	All Sec. 8 except NE¼	NE¼ of Sec. 8
Sec. 9 e)	SW¼ of the NW¼, and the easterly ½ of the SW¼ of Sec. 9	NW¼ of the NW¼ of Sec. 9
Sec. 17 f)	All Sec. 17	
Sec. 18 g)	All Sec. 18	
Sec. 16 h)	NW¼ of the SW¼, and the SW¼ of the NW¼	Most of the NE¼ of the NW¼, and the southerly ½ of the SW¼, and the NE¼ of the SW¼, and the entire SE¼ of Sec. 16
Sec. 15		A very narrow strip along the westerly ½ of the SW¼
Sec. 22		A very narrow strip along the westerly ½ of the NW¼
Sec. 21	SE¼ of the NW¼, and the westerly ½ and southerly ½ of the NW¼, and the northerly ½ of the SW¼	The southerly ½ of the SW¼, and the westerly ½ of the SE¼, and the NE¼, and the Nly ½ of the NW¼ & NE¼ of the SW¼ of NW¼, & the Nly ½ of SE¼ of the NW¼
Sec. 20	The northerly ½ and easterly ½ of NW¼ and NE¼	The SW¼ & SE¼, and the southerly ½ of the NW¼
Sec. 19	Most of the Northerly ½ of the NW¼ and NE¼, and the northerly ½ of SE¼, and the NE¼ of the SW¼	NW¼ of the SW¼, the southerly ½ of SW¼ & SE¼, and the SE¼ of the NW¼, and the SE¼ of the NE¼
Sec. 30		The Westerly ½ of the SW¼, the NW¼, the northerly ½ of the NE¼
Sec. 31		The NW¼ of the NW¼, and the Westerly ½ of the SW¼ of the NW¼, and the SW¼
Sec. 29		The Northerly ½ of the NW¼, and the SE¼ of the NW¼, and the NE¼, and the northerly ½ of the SE¼
Sec. 28		The NW¼, and the NW¼ of the SW¼

Township 36 South, Range 6 West:

City Limits	Urban Growth Boundary
Sec. 13	The SE¼, and the Easterly ½ of the NE¼
Sec. 14	The SW¼, and the SW¼ of the SE¼
Sec. 15	The Easterly ½ of the SE¼
Sec. 22	The NE¼ of the NE¼, and the Southerly ½ of the NE¼, and the Easterly ½ of the NE¼ of the SE¼
Sec. 23	All of Sec. 23 except the most NE¼ of the NE¼
Sec. 24	All of Sec. 24 except the NW¼ of the NW¼, and the SE¼ of the NW¼
Sec. 25	The Northerly ½ of the NW¼ & NE¼, and the Easterly ½ of the SE¼ of the NE¼, and the NE¼ of the SE¼, and the SE¼ of the SE¼
Sec. 26	The northerly ½ of the NW¼ and NE¼
Sec. 27	The SW¼ of the NE¼, and the NE¼ of the NE¼
Sec. 36	The easterly ½ of the NE¼

Township 37 South, Range 5 West:

Sec. 6	The Northerly ½ of the NE¼ of the NW¼

PHONE 378-8508

October 29, 1979

File No. 34141

City of Grants Pass Water District
City Hall
4th and "H" Streets
Grants Pass OR 97526

I am enclosing a form for use in making application for an extension of time limits under permit number 26901.

The Water Resources Director is permitted by law to extend the time for completion of a project only upon a showing of reasonable diligence by the permittee. Therefore, you should fill out this application carefully and completely describing what has been accomplished.

The application must be executed before a notary public and submitted to this office with the statutory filing fee in the amount of $10.00 for each permit.

Sincerely,

Bruce A. Estes

Bruce A. Estes, Supervisor
Certificate-Survey Section

Form 115

3414

378-2982

February 22, 1978

Office of the City Attorney
P.O. Box 578
130 NW D Street
Grants Pass, OR 97526

ATTENTION: Philip L. Nelson, City Attorney

Dear Mr. Nelson:

Most of the Western United States operates under the Appropriation Doctrine. While Colorado and Oregon are among these, there are significant differences in both statute and administration.

Certificate 15839 was issued to confirm the right established by decree of the court entered April 26, 1919 in the Rogue River Adjudication allowing the diversion of 12.5 cubic feet of water per second from the Rogue River for municipal, domestic, and irrigation within the corporate city limits of Grants Pass.

The decree provided that water be diverted "... not to exceed the quantity herein allowed if continuously used, ...".

Permit No. 26901 clearly limits the diversion to 25.0 cubic feet of water per second measured at the point of diversion.

The case of Dry Gulch Ditch Co. vs. Hutton 170 OR 656 involves an upstream junior appropriator diverting water from one source and replacing downstream from another source for the senior appropriator. This was an exchange of water and did not allow a diversion of water in excess of that provided by their water rights.

The Attorney General Opinion No. 6964 on January 7, 1973 further clarifies the matter of sewage treatment plant effluence being a part of the waters of that stream subject to appropriation by others.

In summation, the two rights in question allow the City of Grants Pass to divert not to exceed 37.5 cubic feet of water per second from the Rogue River and makes no provision for credit of return flow.

Sincerely,

James E. Sexson
Water Resources Director

JS:db

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FEB 1 1978
WATER RESOURCES DEPT.
SALEM, OREGON

OFFICE OF THE CITY ATTORNEY
GRANTS PASS, OREGON

CITY ATTORNEY
PHILIP L. NELSON
DEPUTY CITY ATTORNEY
MICHAEL S. KILLORAN

P. O. BOX 578
130 N.W. D STREET
GRANTS PASS, OREGON 97526
TELEPHONE (503) 476-6677

January 31, 1978

Mr. James E. Sexson, Director
Water Resources Department
1178 Chemeketa Street, N.E.
Salem, OR 97310

Re: City of Grants Pass Water Permits

Dear Mr. Sexson:

Initially let me express my thanks to you for the services rendered by Larry Jebousek on January 30 when he so readily and thoroughly answered questions I had concerning City of Grants Pass water rights on the Rogue River. A couple of questions have come up since that conversation, however, which I would like to discuss with you.

The City has Certificates Number 15839 for 12.5 CFS and Number 26901 for 25 CFS. I understand from Larry that the 12.5 CFS permit is perfected, but that on the other hand the latter permit, Number 26901, has not been.

Apparently, until the permit is perfected, it must be periodically extended and in this case there is an extension until October 1, 1979. During a period of extension, no part of the 25 CFS could be lost to any other legal entity or person. Again, when the City actually is using the entire CFS, then a completion notice is to be filed and final proof made regarding the water usage.

Let me explain that a few days ago we did receive a legal opinion from a law firm in Portland concerning the City's water rights and other matters. In regard to our Permit Number 15839, the opinion states that that permit includes the following language: "...the amount of water to which such right is entitled...is limited to an amount actually beneficially used...". The conclusion is drawn in the opinion "...that the 12.5 CFS is the net amount allowed to be taken after the City receives credit for water returned to the river from its sewage treatment plant and drainage system." (Emphasis supplied.)

To the contrary, I understood from Larry that there would be no credit given for the return of water through the sewage treatment plant of the City or otherwise to the river, and that the only computation made is of water taken at the point of diversion or appropriation.

This matter of computing water return to the river is discussed further in the opinion received from the Portland law firm. The opinion quotes from the 25 CFS permit that the City of Grants Pass has: "The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25 cubic feet per second measured at the point of diversion from the stream..."

The opinion then goes on to discuss certain Colorado cases and an Oregon case as follows:

> "Colorado, to which Oregon law is similar, holds that sewage out-flow and other return of water to the appropriation source by a city is taken into account when measuring the amount of water 'consumed' by the city. Green v. Chafee Ditch Co., 150 Col. 91, 371 P2d 775 (1962) and Ackerman v. City of Walsenburg, (no citation given in opinion for Colorado reference) 467 P2d 267 (1970). Oregon has recognized the theory that substituting water of equal quality for that flowing naturally down a stream does not harm the other appropriators, and they have no right to complain. Dry Gulch Ditch Co. v. Hutton, 170 OR 656, 133 P2d 601 (1943). The City of Grants Pass should be entitled to credit for water restored to the river after it has been diverted and applied to a consumptive use."

Due to the apparent conflict between what Larry told me and what appears in the legal opinion, I am asking for further clarification from your office since of course the matter is of considerable import to the City.

Again, unless hearing otherwise from you, I am going to indicate to the City, by copy of this letter, that our 25 CFS permit is of a nature and subject to the extensions, and protection from loss to other entities, as set forth above in this letter.

Thank you very much in advance for the assistance you can provide the City of Grants Pass in this regard.

Very sincerely,

Philip L. Nelson
City Attorney

PLN:lp

cc: Ron S. Bergman, City Manager
City of Grants Pass

378-3066

34141
6155
6189

October 24, 1977

Stoddard D. Jones
1600 Benj. Franklin Plaza
One SW Columbia St.
Portland, OR. 97258

Dear Mr. Jones:

Enclosed is your receipt and copies as you requested:

City of Grants Pass
Certificate number 15839
Permit number 34141 (application #26901)

Grants Pass Irrigation District
Permit number 8853 (application #5189)
Permit number 8854 (application #6155)

The enclosed rights are valid to the extent that use has been made under the terms of the permits and continued to be used.

Sincerely,

LARRY TOLL
Water Rights Engineer

LMT:td

RANKIN, McMURRY, OSBURN & GALLAGHER

LAWYERS

1600 BENJ. FRANKLIN PLAZA
ONE S.W. COLUMBIA STREET
PORTLAND, OREGON 97258

TELEPHONE 226-6400
AREA CODE 503

HOWARD A. RANKIN
GARRY P. McMURRY
JOHN W. OSBURN
STEPHEN L. GALLAGHER, JR.
DENNIS R. VAVROSKY
PATRIC J. DOHERTY
RICHARD C. BUSSE
VICTOR D. STIBOLT
HARVEY W. ROGERS
MICHAEL J. BRAGG
KAREN BERRY
STODDARD D. JONES

BRUCE BISCHOF
OF COUNSEL

JOHN W. SHULER (1892-1971)

October 20, 1977

Water Resource Department
State of Oregon
Mill Creek Office Park
555 13th Street N.E.
Salem, Oregon 97310

Attention: Larry Toll

Dear Mr. Toll:

Referring to our telephone conversation this date, we are requesting copies of certain water permits and certificates for the Grants Pass Irrigation District and the City of Grants Pass.

The permit numbers for the Grants Pass Irrigation District are No. 8853 and 8854. The permit or certificate numbers for the City of Grants Pass are 15839, 26901 and 34141. Included is our check for $3.00 to cover the cost of reproducing and handling. Please forward these at your earliest convenience.

Thank you for your cooperation.

Very truly yours,

RANKIN, McMURRY, OSBURN & GALLAGHER

Stoddard D. Jones

Stoddard D. Jones

SDJ/ab

Enclosure

RECEIVED
OCT 21 1977
WATER RESOURCES DEPT
SALEM, OREGON

XXXXXXXXXX
XXXXXXXXX
James E. Sexson,
Director

July 14, 1975

Mr. Roy W. Norton
Public Works Director
City of Grants Pass
City Hall, Fourth and H Streets
Grants Pass, Oregon 97526

Dear Mr. Norton:

Enclosed is a copy of certificate recorded at page 15839, State Record of Water Right Certificates, and a true copy we have typed of permit no. 26901. During this period permits were photostated, and our xerox will not copy from black so it is necessary to retype copies. The person who signed the permit is not indicated because we were unable to read the signature.

Also enclosed is an application form for surface water, a copy of the Rules & Regulations and a revised fee schedule.

Very truly yours,

Trevor Jones
Assistant

TJ:whh

TELEPHONE: 476-6641

214 S.W. 4TH ST

CITY OF GRANTS PASS

CITY HALL + FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

July 8, 1975

RECEIVED
JUL 10 1975
WATER RESOURCES DEPT.
SALEM, OREGON

Oregon State Engineer
1178 Chemeketa N. E.
Salem, Oregon

Dear Sir:

Will you be so kind as to furnish us with the necessary forms to make application for additional water rights to the Rogue River for the City of Grants Pass?

Also, would you please send us copies of the existing rights, i.e. the 1888 perfected right for diversion recorded on page 15839 of the state records, and application number 34141 granted under Permit number 26901.

Thanking you in advance, I remain

Very truly yours,

Roy W. Norton

Roy W. Norton
Public Works Director

RWN/dkl

34141

November 12, 1974

City of Grants Pass Water Department
City Hall, 4th and H Streets
Grants Pass, Oregon 97526

Gentlemen:

This will acknowledge your application for an extension of the time limits in which to complete constructionand make complete application of water under the terms of your permit No. 26901 and your check in the amount of $5.00 for which our receipt No. 43655 is enclosed.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1979.

Very truly yours,

Trevor Jones
Assistant

TJ:whh

STATE OF OREGON

INTEROFFICE MEMO

RECEIVED
FEB 8 1978
WATER RESOURCES DEPT.
SALEM, OREGON

TO: Larry Jebousek

DATE: February 2, 1978

FROM: Robert B. Steimer
Watermaster, District #14

SUBJECT: "Water Rights Report"

Enclosed is the water rights report we talked about on the phone yesterday.

I found several things in the report which I figured were incorrect. I would appreciate your going over it and let me know what you think about it.

We are evidently going to have a meeting with a county attorney, one of the administrative officials, and myself some time in the future.

RBS/sj

RECEIVED
FEB 8 1978
WATER RESOURCES DEPT.
SALEM, OREGON

WATER RIGHTS REPORT

City of Grants Pass, County of Josephine and Grants Pass Irrigation District

INTRODUCTION

This report is a survey of the legal status of the rights of certain public bodies to appropriate water from the Rogue River in the vicinity of Grants Pass, Oregon. The report is prepared for the City of Grants Pass, the County of Josephine and the Grants Pass Irrigation District, and responds to questions jointly propounded by those agencies.

Before we respond to the questions directly, it may be helpful if we describe generally the system of allocating water rights in Oregon by reference to the governing statutes.

APPROPRIATION OF SURFACE WATER

As is true in other western states, Oregon law relating to the appropriation of water is primarily statutory law. All water in Oregon belongs initially to the public. ORS 537.110. Waters are classified as "surface water" (lakes, rivers and streams) and "underground water." The appropriation of surface water in Oregon is governed by the "1909 Act," ORS 537.110 to 537.450, and the appropriation of

underground water is regulated by the "Ground Water Act of 1955," ORS 537.505 to 537.795. We are here concerned specifically with the appropriation of surface water under the 1909 Act, which comprises part of what is called the Water Rights Act.

Unless otherwise provided, all surface water may be appropriated for beneficial use. ORS 537.120. Persons intending to acquire the right to make beneficial use of water, before either taking the water or performing any work such as constructing storage, pumping or distribution facilities or the like, must make application to the Water Resources Director for an appropriation permit, and may not use, store or divert water until an appropriation permit is obtained. ORS 537.130.

The 1909 Act then goes on to describe the procedure by which a person may apply for and receive an appropriation permit. ORS 537.140 to 537.210. When the permit is issued, the permitee is given a specified time in which to complete the required work incident to the appropriation. ORS 537.230. The permittee may then proceed with the necessary work and "take all steps required to apply the water to a beneficial use and to perfect the proposed appropriation." ORS 537.210. When those steps have been taken to perfect the proposed appropriation, the Water Resources Director may issue a water right certificate. ORS 537.250. After a three month

period from the issuance of the certificate, if the certificate has not been contested or canceled, the certificate becomes "conclusive evidence of the priority and extent of the appropriation therein described," subject only to loss by abandonment and nonuse. ORS 537.250 and 537.270. Permits to appropriate water may be assigned, subject to certain conditions. ORS 537.220. The owner of water rights may apply to the Water Resources Director for authority to change the use and place of use, the point of diversion or the use therefore made of the water without losing priority of his water right, otherwise the water shall remain appurtenant to the premises on which it is used and no change in use or place of use may be made. ORS 540.510.

The foregoing is an overview of the statutory scheme under which persons are permitted to acquire water rights in Oregon. As is often true, the statutes are drafted so as to show the step-by-step progression of the "typical" case. In water law, the usual case involves a private property owner seeking to appropriate water for use on his own property. The amount of water to be appropriated depends on the amount of land owned and the nature of the use contemplated. When the property is sold, the water rights will go with the land.

SPECIAL PROBLEMS IN STATUTORY CONSTRUCTION

In the present case, the City of Grants Pass and the Grants Pass Irrigation District hold certain water rights

not as individuals, but as public bodies for the benefit of their citizens. The property to which those rights are appurtenant changes as the boundaries of the entity changes. Thus, much of the statutory language dealing with the transfer of water rights does not neatly fit a governmental fact situation. Neither is there any substantial body of case law dealing with the transfer of water rights between governmental bodies. Where water rights are not clearly transferable by statute without the approval of the Water Resources Director, it seems likely that a court would hold that the most nearly pertinent statutes are the most general statutes. The generality of the Water Rights Act is that broad powers are granted to the Water Resources Director. Where authority to transfer water rights or apply water to specific beneficial uses is uncertain, that authority must be sought from the Director.

The problem of applying the statutory appropriation scheme to a governmental context is compounded by the fact that both water rights held by the Grants Pass Irrigation District are not perfected water rights evidenced by certificates, but are merely permit rights. The same is true of the city's 1960 right to 25 cfs. As we shall see, municipal corporations are not subject to the loss of water rights in precisely the same way as private persons. However, the

permit status of these water rights gives the Water Resources Director considerable discretion in determining the extent of the water rights which will be deemed perfected.

With that frame of reference, we turn to the specific questions presented.

LOSS OF WATER RIGHTS

The questions relating to the loss of water rights ask whether water rights of the City or the District may be administratively or judicially "confiscated" because of lack of use or misuse.

The term "confiscation," of course, is not a statutory term. We assume that the question refers to the loss of water rights.

Water rights may be lost in one of two ways. The first is by the failure to perfect rights for which one has applied. The second is by abandonment or nonuse of water rights after a certificate has been received. There is no specific statutory provision for forfeiture of a water right because of misuse.

We mentioned earlier that a permit issued by the Director provides a period of time within which the applicant ~~may~~ shall complete the work to be performed. If the owner fails or refuses to submit proof of completion of the appropriation within three months after the time within which the appropriation was to be completed, the Director may, after 60

days' notice by registered mail, order the cancellation of the permit. ORS 537.260.

Permits issued "to irrigation districts for reclamation purposes under the irrigation district laws of this state, Wrong or to municipal corporations for municipal uses or purposes" are not subject to cancellation because of failure to complete construction. ORS 537.230 and 537.410. However, there remains the question of the extent to which the appropriation has been perfected by applying the water to beneficial use. ORS 537.260(2) provides that the Director may determine the extent to which an appropriation has been perfected; and that the Director:

> "... shall limit the certificate . . . to a description of such appropriation as has been actually perfected to the extent that the water applied for has been actually applied to the beneficial use contemplated in the permit."

Either the City or the District could suffer a "reduction" or "loss" of water right by receiving a perfected right to less than the permit provided.

The second basis for "loss" of a water right is through abandonment or nonuse. Abandonment is regarded as the intentional relinquishment of a known right, not merely the failure to perform some act required by statute. Tudor v. Jaca, 178 Or 126, 164 P2d 680 (1946). Loss of rights through

nonuse results when the owner of a perfected and developed water right ceases or fails to use the water appropriated for a period of five successive years. ORS 540.610(1). However, that provision is expressly made inapplicable to the use of water by cities and towns for all reasonable and usual municipal purposes. Thus, the City could not through nonuse lose its perfected water rights under its 1888 priority certificate. Since the statute applies only to perfected water rights, it does not apply to the District's permit rights or the City's 1960 priority permit.

As we have indicated, there is no specific provision for cancellation of water rights because of "misuse." Use of water for an unauthorized purpose is considered an unauthorized appropriation, which the Director normally seeks to stop by injunction proceedings in court. There are also criminal penalties provided for using without authorization water to which another person is entitled. ORS 540.770 and 540.990(2). Misuse in and of itself has never been regarded as a basis for forfeiture of an established water right. Misuse on wrong land can work forfeiture Continued appropriation of water in a place or manner ~~of~~ for a use not authorized by a water certificate might be construed as an abandonment of the certificate rights. That danger technically does not exist in our case, since the District

has no certificated water rights. However, water which is not utilized as contemplated by the permit may not be counted as appropriated when the Director determines what rights have been perfected.

TRANSFERABILITY OF WATER RIGHTS

The underlying question as to the transferability of water rights is whether water rights may be transferred or sold by agreement of the parties, independently of the area or use for which they were acquired, under circumstances in which it is unlikely that the transferee would be unable to obtain an additional appropriation of water merely by applying for it. The answer is that all transfers of water rights which could affect the rights of other appropriators or lessen the amount of water available for appropriation, are subject to the approval of the Director in one form or another.

All©

The water rights which are being considered for transfer are the water rights of GPID. On January 15, 1929, the District was issued Permit Number 8854 (application number 6155). The Permit authorized the appropriation of 800 cubic feet per second of water, to be used for "Power for Irrigation, Pumping and Commercial use, and a supply for operation of Fish Ladders". The priority date of the Permit is June 17, 1918, the date the application for the Permit was first received by the then State Engineer. The Permit recited

that construction work had begun, and was to be completed and the complete application of the water to the proposed use made by October 1, 1933. That time was extended six times up to October 1, 1953.

In our opinion, this Permit was granted for a non-consumptive use. Except to the extent that there may be some water loss incident to the operation of the turbiness and the fish ladder, the Permit contemplated the return of substantially all of the appropriated water to the river. The statutes do not specifically refer to consumptive and non-consumptive uses, but Oregon does recognize a distinction between consumptive and non-consumptive water rights. California-Oregon Power Co. v. Beaver Portland Cement Co., 295 U.S. 142, 79 L Ed. 1356 (1935).

The statutes do not specifically provide that water rights granted for non-consumptive uses may not be transferred to consumptive uses such as irrigation, domestic or municipal purposes, but it is clear that Permit No. 8854 could not be used as a basis for a consumptive water right. While it is our opinion that none of the governmental bodies in Josephine County could apply successfully for a transfer of this water right for a consumptive use, it is also our opinion that the Permit does not represent consumptive water rights which could be made available to someone else.

yes, injury

?

The other Permit held by the District is number 8853, dated January 15, 1929, with a priority date of September 29, 1916 for diversion from the Rogue River and February 27, 1922 for diversion from tributary streams. The Permit authorizes appropriation of 230 CFS for irrigation purposes. By its terms, the appropriation is limited to 1/80th of one cubic foot per second or its equivalent for each acre irrigated and is subject to such reasonable rotation systems as may be ordered by the proper state officer. Construction work in complete application of the water to the proposed use was to made on or before October 1, 1933. That time was thereafter extended seven times to October 1, 1955. The acreage to be irrigated, which was specified in the application, total 18,392.6 acres. As we indicated above, the water rights under this Permit have never been perfected, and the physical survey of the lands actually under irrigation may result in the issuance to the District of a certificate for substantially less than 230 CFS.

ORS 537.220 provides that permit rights may be assigned. The assignment is subject to the conditions of the permit, and the assignment is binding only on the parties, unless it is filed for record in the office of the Director. The conditions of the permit as to the premises benefited, the point of diversion and the purpose of the appropriation all

remain unchanged by the assignment. Moreover, the rights granted by the permit remain subject to the final order of the Director.

ORS 540.510 provides that all water shall remain appurtenant to the premises upon which it is used, and no change in use or place of use may be made without complying with the statutes dealing with the transfer of water rights. Thus, an assignment of the District's permit rights would not be effective to authorize a change in use or a change in the premises benefited.

The usual procedure for obtaining a change in the place of use, point of diversion or use of water is the filing of an application for a transfer of water rights under ORS 540.520 and 540.530. Under that procedure, the Director published notice of a hearing in the appropriate county for a period of three weeks, with the hearing scheduled for not less than thirty days after the last publication. If objections are filed, a hearing is conducted. If the Director finds that the purposed change may be effected without injury to existing water rights, he enters an order approving the change and specifying the time within which the water may be applied to the new use.

As may be seen from the foregoing statutes, there is no procedure by which the parties may by contract transfer

water rights in such a manner that the transfer will be impervious to the requirement of approval by the Director.

ORS 540.450 provides that when the county acquires title to land within an irrigation district, the county may, at the request of the District, apply under ORS 540.510 to 540.530 to have the water rights transferred to other land within the district. By its terms, that statute applies only where the county actually acquires title to the land, such as by tax foreclosure or purchase, and the statute permits the transfer of water rights to other land, but does not contemplate a change in the use of water on the subject property.

The statutory procedure which appears to be the most promising is that prescribed in ORS 545.144, dealing with the powers of irrigation districts. In Butler and Thompson Co. v. Ashland, 109 Or 683, 222 P2d 346 (1924), the court upheld a contract between a irrigation district and a city for the sale of surplus water for purposes other than irrigation. The statute provides that if the board of directors of an irrigation district deem it in the best interest of the district to sell property owned by the district and not required for district purposes, "including excess storage or carrying capacity, surplus water or water rights . . ." it shall adopt a resolution specifying the amount of surplus water proposed to be sold, and reciting that the sale may be

made without impairing the security of outstanding bonds. The board thereafter files with the Director a petition requesting an investigation as to the amount of surplus water which the district may selle. Within sixty days after the receipt of the petition or as soon thereafter as practical, the Director is to file a report in writing with the secretary of the board, and the board may thereupon sell surplus water "to an amount not exceeding the amount found available for sale by the Water Resources Director". ORS 545.146 and 545.148 provide for obtaining a release of the lien of outstanding bonds, and ORS 545.154 provides for confirmation of the sale proceedings by the court.

These statutes thus could provide a means for water which has been appropriated for irrigation being made available for domestic and municipal purposes. If the Water Resources Director is called upon to determine the existence of water rights solely under the water rights act, the determination that there is surplus water available to the district may result in the Director's concluding that the rights to the surplus water have never been perfected. ORS 545.144 allows the Director to recognize the existence of surplus water without requiring him to deprive the district of the surplus.

We now turn to the further specific questions presented.

Does "new owner" need existing rights as a prerequisite to acquistion of additional rights? Our answer is no.

Can the county acquire either city or GPID rights? The county in its corporate capacity would not be authorized to acquire city water rights, without going through a city-county consolidation under ORS 199.705 et seq. While it would be possible for the county to acquire GPID rights, most counties have found it advantageous to maintain water distribution systems as separate entities, and to provide for the creation of a water supply authority under ORS 450.675 or a county-wide service district under ORS 451.010 et seq. GPID could sell surplus water to the district under the provisions of ORS 545.144, or application for a transfer of water rights could be made under ORS 540.520 and 540.530.

Can an area outside Josephine County acquire our rights? Water rights lost by GPID as a result of the issuance of a water certificate for less than 230 CFS could not be directly acquired by an area outside Josephine County. However, the granting of a water certificate for a lesser amount of water would mean that the opportunity to take the full 230 CFS would be lost. While it is unlikely that the Water Resources Department will grant additional water rights in the Rogue, to the extent that water is "saved" by not allocating it to GPID, other appropriators with later dates of priority would have their rights enhanced by a limitation on the GPID

What?

appropriation.

May water rights be transfered contractually? As we indicated, GPID's water permit rights are somewhat tenuous. They may be transferred contractually, but a contractual transfer of water rights will not effectively permit the use of the water on other premises and for other purposes without the approval of the Water Resources Director. Can't give

Can the city be the delivery agent for property served by the city utility system, and within the GPID district, but physically separated from the GPID delivery point? If so, does this take GPID approval, property owner approval, either or both?

Yes.

So long as other appropriators of water are not affected, and there is no change in use or point of diversion, this would be acceptable. Smyth v. Jenkins, 280 Or 92, 299 P2d 819 (1956) and Clark, Waters and Water Rights, Vol. 5, §412.4 (1967). Also, so long as other appropriators are not affected adversely, the Grants Pass Irrigation District could even change its point of diversion for the water it needs processed to that of the City of Grants Pass by filing an application with the Water Resources Director. ORS 540.410.

Distribution of water within the Grants Pass Irrigation

District is governed solely by the directors of the District. ORS 540.270. They, then, could authorize the construction of a pipeline from their point of diversion to the city filtration plant without interference by the Water Resources Director. Once the water gets to the distribution system of the City, however, then the Water Resources Director may enter into the distribution scheme in the area of regulation. ORS 540.040.

The method of distribution by Grants Pass Irrigation District has been through a series of ditches and canals. By utilizing a pipeline to transport water, this may be some kind of a change of use. However, the trend is to prevent waste of water and thus pipelines are favored over ditches. Clark, Waters and Water Rights, Vol. 5, §412.4 (1967), and Salt River Valley Water Users Ass'n. v. Kovacovich, Ariz., 411 P2d 201 (1966). So long as the pipeline can be constructed with no material change in the character of the servitude, it will be upheld. Smith v. Rock Creek Water Corporation, Calif. 208 P2d 705 (1949) and White Bros. and Crum Co. v. Watson, Wash., 117 P 497 (1911).

Can the city contractually substitute water by putting affluent from its sewage treatment plant into GPID canals and taking additional river water at the cities intake? No. By certificate number 15839, the city may withdraw from the Rouge River 12.5 CFS and apply it to municipal, domestic and

irrigation uses. By Permit Number 26901, the city may withdraw 25 CFS and apply that to municipal use, so long as river flow at its mouth exceeds 735 CFS.

The first mentioned certificate is silent as to where the amount of water is to be measured. The certificate provides only:

> "... that the amount of water to which such right is entitled, for the purposes of aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 12.5 cubic feet per second."

This wording should permit the conclusion that the 12.5 CFS is the net amount allowed to be taken after the city receives credit for water returned to the river from its sewage treatment plant and drainage system.

A more difficult question is raised by the 25 CFS permit, which states:

> "The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25 cubic feet per second measured at the point of diversion from the stream..."

Colorado, to which Oregon law is similar, holds that sewage out-flow and other return of water to the appropriation source by a city is taken into account when measuring the amount of water "consumed" by the city. Green v. Chaffee Ditch Co., 150 Col. 91, 371 P2d 775 (1962) and Ackerman v. City of Walsenburg, 467 P2d 267 (1970). Oregon has

recognized the theory that substituting water of equal quality for that flowing naturally down a stream does not harm the other appropriators, and they have no right to complain. Dry Gulch Ditch Co. v. Hutton, 170 Or 656, 133 P2d 601 (1943). The City of Grants Pass should be entitled to credit for water restored to the river after it has been diverted and applied to a consumptive use. However, the taking of water from the sewage treatment plant would represent a change in the point of diversion of water appurtenant to GPID land, which would require a transfer proceeding as provided in ORS 540.510 to 540.530.

Can the city, county or new water agency, acquire use of water rights in a contractual manner? A public agency may contract with the holder of existing water rights for the purchase of surplus water, or for the transfer of water rights subject to conditions of existing permits. However, any such sale or a change in the conditions of a permit must be approved by the Water Resources Director. To the extent that the question asks whether there are procedures available to transfer water rights independent of the approval of the Water Resources Director, the answer is no.

MITIGATION

You ask what measures may be taken locally to prevent the loss of water rights. As we indicated, the existing water rights of Grants Pass Irrigation District under its

...rely tenuous, and subject to
...source" ... The local
...th study ... water for
...to preserve" these rights
...of the water rights under ORS
...for the purchase of surplus water
...reservation of the Water

RECEIVED
NOV 1 1974
STATE ENGINEER
SALEM, OREGON

Application No. 34141

Application for Extension of Time

To the State Engineer of Oregon:

I, the City of Grants Pass Water Department, of Josephine County, state of Oregon, am the owner and holder of Permit No. 26901, to appropriate the public waters of the state of Oregon.

Under the terms and conditions of said permit, construction work is required to be completed on or before 10/1/, 19 74, and complete application of water is required to be made on or before 10/1/, 19 74.

I have heretofore done the following work described under said permit during the past year:

and did the following work prior to last year:

costing $....., and I estimate the cost of completion to be $.....

I have heretofore used water under said permit to the following extent:

I am unable to { complete construction work / make complete application of water } within the required time, for the following

(Strike out phrase not applicable)

reasons, to wit: Construction of proposed intake structure on Rogue River is scheduled after 1975. This is part of the long range plans for system expansion of the City of Grants Pass

(If additional space is required, attach separate sheet)

(A fee of $5.00 for each permit involved must accompany this application.)

(OVER)

$5.00 FEE PAID
REC. NO. 43655
DATE 11-1-74

9881
BC
10-1-79

WHEREFORE, I ask that the State Engineer extend the time for the

~~completion of construction work~~ / complete application of water (Strike out phrase not applicable) under said permit to October 1, 19 79.

AFFIDAVIT OF APPLICANT

STATE OF Oregon }
County of Josephine } ss.

I, Robert Mack, being first duly sworn, depose and say that I have read the above and foregoing application for extension of time; that I know the contents thereof, and the facts stated therein are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of October, 19 74

Robert Mack

Subscribed and sworn to before me this 30th day of October, 19 74.

[Notarial Seal]

Shirley E. O'Hare
Notary Public for Oregon

My commission expires November 7, 1977

STATE ENGINEER

WATER RESOURCES DEPARTMENT

1178 CHEMEKETA STREET N.E. • SALEM, OREGON • 97310 • Phone 378-3739

File No. 34141

City of Grants Pass
Attn: Roy W. Norton, Public Works Director
City Hall
Grants Pass, Oregon 97526

October 29, 1974

Gentlemen:

Pursuant to your request I am enclosing a form for use in making application for an extension of time limits under permit No. 26901.

Please be advised that the State Engineer is permitted by law to extend the time for completion of a project only upon a showing of due diligence by the permittee. Therefore, you should execute the application carefully and completely so that this office may determine from your sworn statement whether due diligence has been shown.

The application must be executed before a notary public and submitted to this office with the statutory filing fee in the amount of $5.00 for each permit.

Upon receipt of the application, the matter of extending the time under the appropriation will be given further consideration and you will be advised of our action.

Very truly yours,

Chris L. Wheeler

CHRIS L. WHEELER
State Engineer

Enclosure
Form 115

TELEPHONE: 476-6641

214 S.W. 4TH ST.

CITY OF GRANTS PASS
CITY HALL + FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

October 18, 1974

RECEIVED
OCT 22 1974
STATE ENGINEER
SALEM, OREGON

34141

State of Oregon
Office of the State Engineer
Salem, Oregon 97310

Gentlemen:

Regarding permit #26901, we wish to request an application form for an extension of time. Will you please forward the appropriate forms to us?

Thanking you in advance, I remain,

Very truly yours,

Roy W. Norton by

Roy W. Norton
Public Works Director

RWN/dkl

34141

November 17, 1969

City of Grants Pass Water Department
City Hall
4th and H Streets
Grants Pass, Oregon 97526

Gentlemen:

This will acknowledge your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your permit No. 26901 and your check in the amount of $5.00 for which our receipt No. 16906 is enclosed.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore, the time limits to complete construction and make complete application of water are being extended to October 1, 1974.

Very truly yours,

Trevor Jones
Assistant

slh

Enclosure

-8-64

RECEIVED
NOV 12 1969
STATE ENGINEER
SALEM, OREGON

Application No. 34141

Application for Extension of Time

To the State Engineer of Oregon:

I, We, the city of Grants Pass Water Department, of Josephine County

state of Oregon, am the owner and holder of Permit No. 26901, to appropriate the public waters of the state of Oregon.

Under the terms and conditions of said permit, construction work is required to be completed on or before October 1, 1969, and complete application of water is required to be made on or before October 1, 1969.

I have heretofore done the following work described under said permit during the past year:

and did the following work prior to last year:

costing $....., and I estimate the cost of completion to be $.....

I have heretofore used water under said permit to the following extent:

I am unable to { complete construction work / make complete application of water } within the required time, for the following

(Strike out phrase not applicable)

reasons, to wit: Construction of proposed intake structure on Rogue River is scheduled after 1972. This is a part of the long-range plan for system expansion for the city of Grants Pass.

(If additional space is required, attach separate sheet)

(A fee of ~~$2.00~~ for each permit involved must accompany this application.)

$5.00 FEE PAID

REC. NO. 16906

DATE 11-12-69

(OVER)

BE 10-1-74

272

WHEREFORE, I ask that the State Engineer extend the time for the

{~~completion of construction work~~ / complete application of water} under said permit to October 1, 1974.

(Strike out phrase not applicable)

AFFIDAVIT OF APPLICANT

STATE OF Oregon }
County of Josephine } ss.

I, Roy W. Norton, being first duly sworn, depose and say that I have read the above and foregoing application for extension of time; that I know the contents thereof, and the facts stated therein are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 10th day of November, 19 69

Roy W Norton

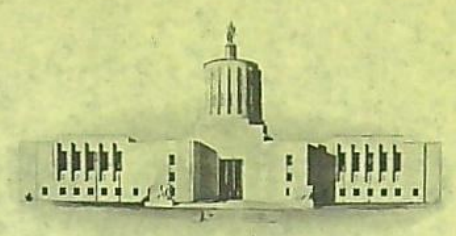
Subscribed and sworn to before me this 10th day of November, 19 69.

[Notarial Seal]

Shirley E. O'Hare
Notary Public for Oregon

My commission expires November 7, 1973

SP•12927-119



STATE OF OREGON
STATE ENGINEER
WATER RESOURCES DEPARTMENT
516 PUBLIC SERVICE BUILDING
SALEM 97310

REFER TO FILE NO. 34141

November 5, 1969

City of Grants Pass
City Hall - 4th & 'H' Streets
Grants Pass, Oregon 97526

Gentlemen:

Pursuant to your request I am enclosing a form for use in making application for an extension of time limits under permit No. 26901.

Please be advised that the State Engineer is permitted by law to extend the time for completion of a project only upon a showing of due diligence by the permittee. Therefore, you should execute the application carefully and completely so that this office may determine from your sworn statement whether due diligence has been shown.

The application must be executed before a notary public and submitted to this office with the statutory filing fee in the amount of $5 for each permit.

Upon receipt of the application, the matter of extending the time under the appropriation will be given further consideration and you will be advised of our action.

Very truly yours,

Chris L. Wheeler

CHRIS L. WHEELER
State Engineer

Form 115
Enclosure
cdc

ZPHONE 476-6641

POST OFFICE BOX 771

CITY OF GRANTS PASS

CITY HALL ◆ FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

November 4, 1969

RECEIVED
NOV 5 1969
STATE ENGINEER
SALEM, OREGON

Chris L. Wheeler
State Engineer
State of Oregon
Salem, Oregon 97310

Dear Mr. Wheeler:

34141

Please send the necessary form for an extension of time on Surface Water Application for the city of Grants Pass.

Very truly yours,

Roy W. Norton

Roy W. Norton
Acting City Manager

RWN/so

34141

April 3, 1968

City of Grants Pass
City Hall, Fourth and H Streets
Grants Pass, Oregon 97526

ATTENTION: Roy W. Norton, Public Works Director

Dear Sir:

I thought that I had answered the question regarding the City of Grants Pass serving an additional area for water use in my letter dated December 13, 1967. Perhaps you did not see this, so I am enclosing a copy.

A permit cannot be amended, but I do not think this makes any real difference if we generally pick up the correct area of use the time proof of use of water is made.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Trevor Jones
Assistant

TJ:slh

Enclosure

TELEPHONE 476-6641

POST OFFICE BOX 771

CITY OF GRANTS PASS

CITY HALL ◆ FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

February 27, 1968

RECEIVED
FEB 28 1968
STATE ENGINEER
SALEM, OREGON

Mr. Chris L. Wheeler
State Engineer
Water Resources Department
516 Public Service Building
Salem, Oregon 97310

Attention: Mr. Trevor Jones & Mr. Walter N. Perry

Gentlemen:

The City of Grants Pass is receipt of a letter under date of November 6, 1967 stating that the city is delivering water to a trailer park in Lot 3 of Section 24, Township 36 South, Range 6 West of the Willamette Meridian. The letter requested that the city amend its permit to appropriate water File No. 672 to include this additional area. After some discussion with the local Watermaster an application was sent by the city on December 7, 1967 to include this area and additional anticipated areas of service. We have since then received a letter stating that the permit could not be amended. In light of this statement the question I have to ask is, "What do we do now?" I wish to conform with your letter of November 6, 1967 and thought we were doing so with our reply of December 7, 1967. It appears that the amendments to the permit are not proper and that something else must be done. The letter which informed me of this did not indicate what should be done. The City of Grants Pass is anxious to complete this action and would appreciate the information necessary to comply with your regulations.

Very truly yours,

Roy W. Norton

Roy W. Norton
Public Works Director

RWN/so
cc: Bob Steimer, Watermaster

34141

December 13, 1967

City of Grants Pass
City Hall
Fourth and H Streets
Grants Pass, Oregon 97526

Attention: Robert C. Hohmann
Assistant Engineer

Gentlemen:

After a permit has been issued it cannot be amended, but I don't think that the additional service area, since it is contiguous to the originally described service area, will present any particular problem.

At the time of proof, we generally do not restrict municipal rights specifically to those fractional parts of a Section described in the original application. If the use area was expanded as a result of selling water to a separate water district, I don't think this would apply, but if the expansion is a result of the change in city limits or servicing from areas immediately adjacent to the city, I think this could be done.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Trevor Jones
Assistant

TJ:py

TELEPHONE 476-6641

POST OFFICE BOX 771

CITY OF GRANTS PASS

CITY HALL ◆ FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

December 7, 1967

RECEIVED
DEC 8 1967
STATE ENGINEER
SALEM, OREGON

State of Oregon
Office of State Engineer
Salem, Oregon 97310

Subject: Amendment of Water Rights
Ref.: Application No. 34141, Priority Date July 19, 1960
Abstract of Permit No. 26901

Gentlemen:

The City of Grants Pass wishes to request that the above referenced 1960 Water Rights be amended to include the following additional service areas, all of which are in Township 36 South, Range 5 West of the Willamette Meridian:

Sec. 4	NW 1/4, SW 1/4 of NW 1/4 NW 1/4, SW 1/4 of SW 1/4	160 Acres
Sec. 5	All	640 Acres
Sec. 6	All	640 Acres
Sec. 7	NW 1/4, SW 1/4 of NE 1/4 NW 1/4	80 Acres 160 Acres
Sec. 12	All	640 Acres
Sec. 13	All	640 Acres
Sec. 21	SE 1/4, SW 1/4 of SW 1/4	80 Acres
Sec. 24	All	640 Acres
Sec. 25	All	640 Acres
Sec. 28	NW 1/4 SW 1/4	160 Acres 160 Acres
Sec. 29	All	640 Acres
Sec. 30	All	640 Acres

As suggested by your office to the Josephine County Watermaster, Mr. Robert Steimer, the above described areas represent the present and future anticipated service areas which will be

needed over the next five to ten years by the City of Grants Pass.

Thank you for your cooperation.

Very truly yours,

Robert C. Hohmann

Robert C. Hohmann
Assistant Engineer

RCH/so
Enc. Area Map

34141

December 28, 1964

City of Grants Pass
City Hall
Fourth and H Streets
Grants Pass, Oregon 97526

Attention: Mr. Roy Eames, City Manager

Gentlemen:

This will acknowledge your application for an extension of the time limits in which to complete construction and make complete application of water under the terms of your permit numbered 26901, and your check in the amount of $2 for which our receipt numbered 3458 is enclosed.

The application indicates reasonable diligence has been exercised toward completion of the proposed project; therefore the time limits are being extended to October 1, 1969.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Trevor Jones, Assistant

ek

Enclosure

2-7-61

RECEIVED
DEC 21 1964
STATE ENGINEER
SALEM, OREGON

Application No. .....

Application for Extension of Time

To the State Engineer of Oregon:

I, City of Grants Pass, of a municipal corporation

state of Oregon, am the owner and holder of Permit No. 26901, to appropriate the public waters of the state of Oregon.

Under the terms and conditions of said permit, construction work is required to be completed on or before October 1, 1964, 19....., and complete application of water is required to be made on or before October 1, 1964.

I have heretofore done the following work described under said permit during the past year:

None

and did the following work prior to last year: expanded pumping capacity and treatment facilities. Rated capacity of installed river pumps: 1 @ 4000 g.p.m. 75 HP - 1 @ 3,300 g.p.m. 50HP - 1 @ 2,600 g.p.m. 40HP - 1 @ 750 g.p.m. 15 HP.

costing $ 331,000, and I estimate the cost of completion to be $ not determined

I have heretofore used water under said permit to the following extent:

7,000,000 gallons per day

I am unable to { complete construction work / make complete application of water } within the required time, for the following

(Strike out phrase not applicable)

reasons, to wit: additional financing required

(If additional space is required, attach separate sheet)

(A fee of $2.00 for each permit involved must accompany this application.)

(OVER)

4715 $2.00 FEE PAID B-C 10-1-69

WHEREFORE, I ask that the State Engineer extend the time for the

{~~completion of construction work~~ / complete application of water} under said permit to October 1, 19 69

(Strike out phrase not applicable)

AFFIDAVIT OF APPLICANT

STATE OF Oregon }
County of Josephine } ss.

I, Roy Eames, being first duly sworn, depose and say that I have read the above and foregoing application for extension of time; that I know the contents thereof, and the facts stated therein are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 21st day of December, 19 64

Roy Eames, City Manager
City of Grants Pass, Oregon

Subscribed and sworn to before me this 21st day of December, 19 64

[Notarial Seal]

Notary Public for Oregon

My commission expires July 24, 1967

State Printing 36920

TELEPHONE 476-6641 POST OFFICE BOX 771

34141

CITY OF GRANTS PASS

CITY HALL • FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

December 22, 1964

Mr. Chris Wheeler,
State Engineer
Water Resources
516 Public Service Building
Salem, Oregon 97310

RECEIVED
DEC 24 1964
STATE ENGINEER
SALEM, OREGON

Dear Sir:

Enclosed please find executed application for extension of time under City of Grants Pass permit no. 26901. City of Grants Pass Warrant No. 41899 in the amount of $2.00 is also enclosed.

Thank you for your cooperation in this matter.

Very truly yours,

Roy Eames

Roy Eames
City Manager

RE/so
Enc. - 2

34141

December 15, 1964

City of Grants Pass
P. O. Box 771
Grants Pass, Oregon

Attention Mr. Roy Eames

Gentlemen:

We cannot extend the time limits for an indefinite period of time but you may make application for an extension of time under permit No. 26901 for a specific period.

Since this is a municipal right I suggest that you make application for a five year extension of time. I am enclosing the proper form for your use.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Trevor Jones, Assistant

TJ:eh

enclosure

TELEPHONE 476-6641

POST OFFICE BOX 771

CITY OF GRANTS PASS

CITY HALL • FOURTH AND H STREETS
GRANTS PASS, OREGON 97526

December 9, 1964

Chris L. Wheeler
State Engineer
Water Resources Department
516 Public Service Building
Salem, Oregon 97310

RECEIVED
DEC 10 1964
STATE ENGINEER
SALEM, OREGON

Dear Sir:

The City of Grants Pass hereby requests an extention for an indefinite period of time to complete the application of water to beneficial use under the terms of permit No. 26901.

Please confirm.

Very truly yours,

Roy Eames

Roy Eames
City Manager

RE/ns

34141

November 27, 1964

City of Grants Pass Water Department
City Hall, 4th and "H" Streets
Grants Pass, Oregon

ATTENTION: Roy Eames, City Manager

Gentlemen:

Please refer to my letter of October 26, 1964 to you concerning permit 26901. I suggested in that letter that unless the city has developed the water under this permit to the fullest extent, an application for extension of time should be filed. No application for an extension of time has been received as of this date. Would you please advise this office if you intend to file for an extension of time or if you wish the final proof survey to be made now.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
C. O. Bartels
Assistant

COB:caw

30 days

usually suggest to a
city ext be obtained
for "C" until limit Q
under per use & hpl
indicates long range plan
to 1980 — ~~should get~~
Must get extensions to
maintain permit

3h141

October 26, 1964

City of Grants Pass Water Department
City Hall, 4th and "H" Streets
Grants Pass, Oregon

Attention: Roy Eames, City Manager

Gentlemen:

This will acknowledge receipt of your notice of completion of construction.

The city will have to submit form C - notice of complete application of water to beneficial use, when water has been used to the fullest extent under the terms of the permit.

The time limit for complete application of water is October 1, 1964, however, I would recommend that the city make application to the State Engineer for an extension of that date.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
C. O. Bartels
Assistant

COB:caw

TELEPHONE GR 6-6641

POST OFFICE BOX 771

CITY OF GRANTS PASS

CITY HALL ♦ FOURTH AND H STREETS

GRANTS PASS, OREGON

October 20, 1964

RECEIVED
OCT 21 1964
STATE ENGINEER
SALEM, OREGON

State of Oregon
Office of the State Engineer
Salem 10, Oregon

Dear Sir:

We are enclosing herewith "Form B - Notice of Completion of Construction" as required in connection with the recently completed improvements constructed at the City's water pumping and treatment plant. You are advised that the complete appropriation of water for municipal purposes indicated in our permit no. 26901 is not necessary at the present time.

It is our understanding that we are not required to file "Form C - Notice of complete application of water to a beneficial use". Please advise if we have misinterpreted the required procedures in this matter.

Very truly yours,

Roy Eames

Roy Eames
City Manager

RE/so
Enc.

251 FINANCE BUILDING
170 12TH STREET S.E.

STATE OF OREGON
STATE ENGINEER
WATER RESOURCES DEPARTMENT
SALEM

REFER TO FILE NO. 34747

October 4, 1961

City of Grants Pass Water Dept.
City Hall
4th and "H" Streets
Grants Pass, Oregon

Gentlemen:

This acknowledges receipt of Form A, being notice of the beginning of construction under Permit No. 26901.

The report has been filed with other matter pertaining to the permit, which is in good standing until October 1, 1964, when, under its terms, construction should be completed.

Very truly yours,

Lewis A. Stanley

LEWIS A. STANLEY
State Engineer

Form 118
jh

Explore Oregon...Centennial Exposition June 10-September 17...1959

27105
34141

May 23, 1961

City of Grants Pass
City Hall
Fourth and H Streets
Grants Pass, Oregon

Attention Mr. Robert Casey

Gentlemen:

I have your letter of May 16 in reference to the cancelation of permit No. 20952 in the name of the City of Grants Pass.

The permit which granted the right to appropriate 10 cubic feet per second of water from the Rogue River within the SW¼ NE¼ of Section 23, Township 36 South, Range 5 West, W.M. was canceled pursuant to an action of the common council of the City of Grants Pass in the meeting of December 18, 1957. There is no way this permit could be reinstated.

The City's later application No. 34141 was approved on September 20, 1960 by issuance of the permit No. 26901 which granted the right to appropriate 25 cubic feet per second from the Rogue River at the City of Grants Pass's filteration plant within the NE¼ NW¼ of Section 20, Township 36 South, Range 5 West, W.M. with the tentative priority date of July 19, 1960, for municipal purposes.

The time limit for beginning of construction under this permit will expire on September 20, 1964. The time limits for completion of construction and for completion of the appropriation will expire on October 1, 1964. These time limits would be subject to extension upon a showing to the State Engineer that reasonable diligence is being exercised by the city toward the completion of the appropriation.

Very truly yours,

LEWIS A. STANLEY, State Engineer

By
James W. Carver, Jr., Assistant

JWC:eh

34141

October 6, 1960

City of Grants Pass Water Department
City Hall, 4th. and "H" Streets
Grants Pass, Oregon

Gentlemen:

34141, Permit No. 26901 with blueprint.

34141

August 25, 1960

City of Grants Pass Water Dept.
City Hall
4th and "H" Streets
Grants Pass, Oregon

Gentlemen:

This will acknowledge receipt of your returned application number 34141, supplemental data and fees in the sum of $10.00 for which our receipt numbered 26704 is enclosed.

The application has been re-examined and now appears to be in satisfactory form to be considered for approval by issuance of a permit with the next group.

Very truly yours,

LEWIS A. STANLEY
State Engineer

By
Walter N. Perry, Assistant

mgb
Enc: 1

34141

August 11, 1960

City of Grants Pass Water Dept.
City Hall
4th and "H" Streets
Grants Pass, Oregon

Attention: City Water Superintendant

Gentlemen:

This will acknowledge receipt of your application for a permit to appropriate 25 cubic feet of water per second from the Rogue River for domestic and all other municipal purposes within the City of Grants Pass, three prints of a map of the City of Grants Pass Water Distribution System and fees in the sum of $58.00 for which our receipt numbered 26350 is enclosed.

The application has been examined and filed as provided by law under file numbered 34141. Before the application may be considered for approval, it will be necessary that you complete item 8 of the application form to show the location where the water will be used. Pencil notations have been made from the information contained on the submitted map. If the pencil notations are correct, please complete them with a typewriter or in ink. If you do not agree with the entries, please make such corrections as are necessary.

It is requested that you submit any data used to determine the amount of water which will be required under this application. It appears that 25 cubic feet of water per second might be in excess of the amount which will actually be used.

Additional recording fees in the sum of $10.00 will be required to accompany the application. The fees required are a $10.00 examination fee, a $10.00 recording fee for the first one cubic foot of water per second and $2.00 for each additional cubic foot of water per second.

Application number 34141 is returned for completion being endorsed so that in order to retain its date of priority it must be returned to this office on or before October 11, 1960.

Very truly yours,

LEWIS A. STANLEY
State Engineer

By
Walter N. Perry, Assistant

WNP:mgb
Enc: 2

WATER RIGHTS

At present, the only water right the City of Grants Pass holds is one acquired from the Rogue River Water Company at the time the City purchased the water system. This right has been issued Certificate No. 15839 and has the priority date of 1880. The amount of the water right is 12.5 cfs or approximately 8 mgd. Since the supply facilities, at the present time, are producing 6 mgd, it is recommended immediate steps be taken to submit to the Oregon State Engineer an application for at least an additional 25 cfs. An additional 25 cfs would provide a total water right of approximately 24 mgd which would be slightly more than the estimated 1980 demand.

FUTURE DEMAND

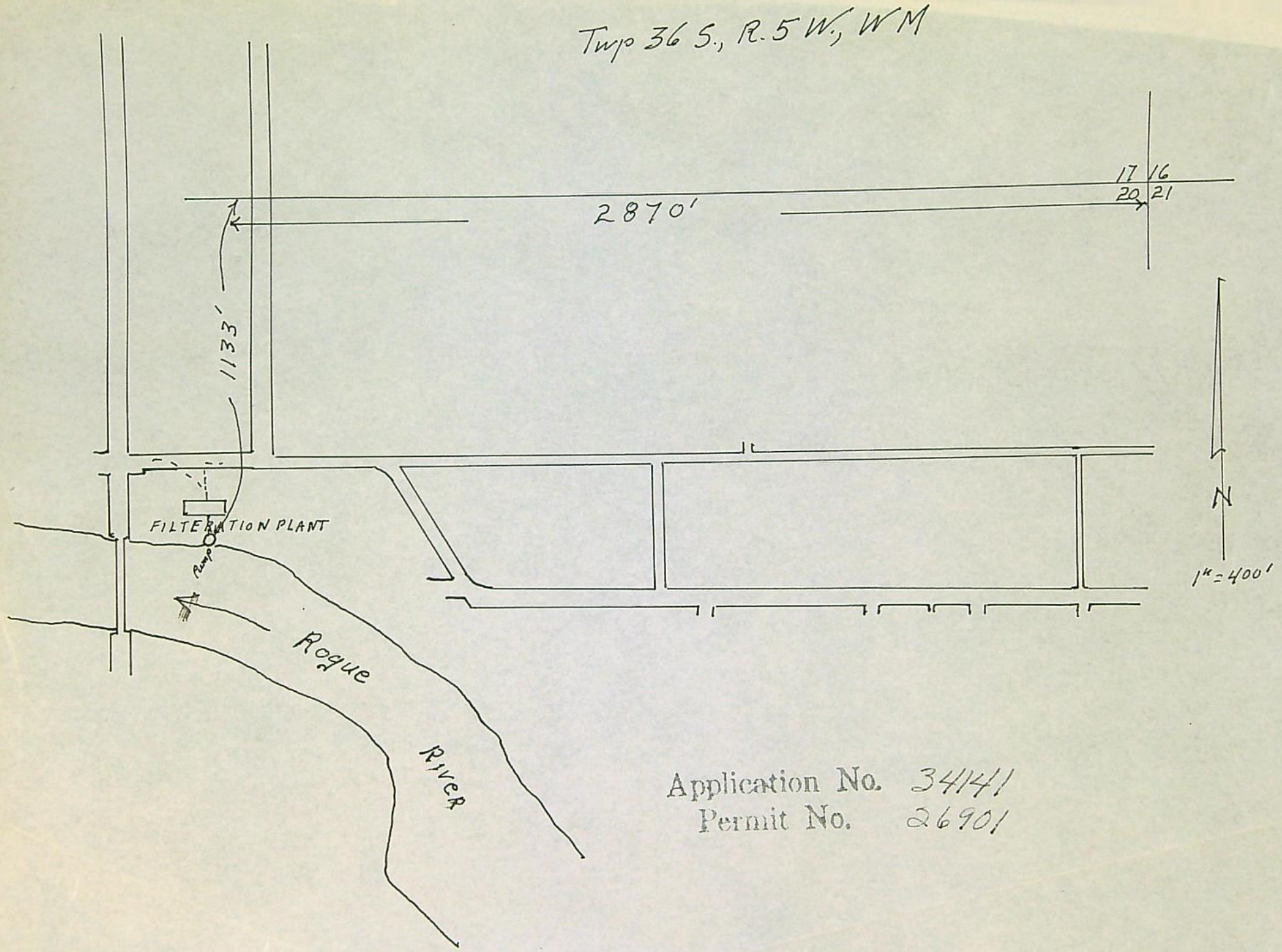
The future demand for the Grants Pass water system was based on the projected per capita demand and the population forecast. It is difficult to predict a future per capita demand for Grants Pass. For the past few years, this rate of use has been too erratic to indicate any deviation from the rapidly rising mean. If the water system expands continually to meet the requirements of the population served, there is no reason to expect the per capita demand to do anything except increase. It is believed, however, that the demand will not continue to increase at the rapid rate experienced in the past. Figure 9 shows the future demand projection used in this study.

The 1959 maximum per capita demand for Grants Pass was computed to be 590 gallons per capita per day. The predicted future per capita demands and total demands for Grants Pass are shown on Table 1. These are based on the per capita consumption projections shown on Figure 9 and are 37.4 per cent per decade population increase shown on Figure 6.

TABLE 1

ESTIMATED FUTURE DEMANDS

Year	Max. Per Capita Demand (Bal/Cap/Day)	Estimated Population	Max. Daily Demand (mgd)	Peak Demand (mgd)
1960	620	11,000	6.8	10.9
1965	695	13,100	9.1	14.6
1970	730	15,300	11.2	17.9
1975	752	17,900	13.5	21.6
1980	760	21,000	16.0 24.76 cfs	25.6 39.6



Application No. 34141
Permit No. 26901

Court—1M—12-43

STATE OF OREGON

COUNTY OF JOSEPHINE

CERTIFICATE OF WATER RIGHT

This Is to Certify, *That* Rogue River Water Company

of Grants Pass *, State of* Oregon *, has a right to the use of*

the waters of Rogue River

for the purpose of municipal and domestic use, and irrigation

and that said right has been confirmed by decree of the Circuit Court of the State of Oregon for Jackson *County, and the said decree entered of record at Salem, in the Order Record of the STATE ENGINEER, in Volume* 4 *, at page* 1 *; that the priority of the right thereby confirmed dates from* 1888;

that the amount of water to which such right is entitled, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 12.5 cubic feet per second.

A description of the lands irrigated under such right, and to which the water is appurtenant (or, if for other purposes, the place where such water is put to beneficial use), is as follows:

Within the corporate limits of
the city of Grants Pass, Oregon

And said right shall be subject to all other conditions and limitations contained in said decree. The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed

this 30 *day of* September *, 19* 49 .

CHAS. E. STRICKLIN

State Engineer

Recorded in State Record of Water Right Certificates, Volume 13 *, page* 15839

7736

MAP to ACCOMPANY APPLICATION OF F.W. DODGE TO APPROPRIATE WATER FOR IRRIGATION.

Sept. 25th 1916

(IN 2 SHEETS.) (SHEET NO. 1.)

I, F.W. Dodge, of Gold Hill, Ore, do hereby certify that this map was made from notes taken during actual surveys made by me and under my immediate supervision on and before Sept. 25th during the year 1916, and that it correctly represents the works described in the accompanying application, together with the location of streams and other ditches in the immediate vicinity, and has written thereon the area it is proposed to irrigate

F.W. Dodge CIVIL ENGR.

SOUTHERN PACIFIC R.R.

CITY of GRANTS PASS

ROGUE RIVER

CALIFORNIA & OREGON COAST R.R.

Allen Creek

proposed Irrigation Ditch

IRRIGATION DITCH

7-22-80
To: Larry Jebousek
From: P. J. Gilman, Dist. 13

RECEIVED
JUL 23 1980
WATER RESOURCES DEPT
SALEM, OREGON

Remarks: No map to accompany claim. See attached claim for Rogue River Water Company.

I N D E X.

NAME OF CLAIMANT	NO. OF CLAIM.
Allen, F. Y.	1
Bellows, Mary	2
Bergman, Mrs. E.	3
Borough, J. B.	4
Coon, Marcia P.	5
Charles, Benj. H. et al	6
Chicago-Rogue River Co., The,	7-8-9
Enyart, Jesse E.	10
Enyart, N. Hazel	11
Erlwein, Chas.	12
Erlwein, Martin	13
Foster, J. E. & J. M.	14
French, Henry	15
Gabriel, A.	16
Givan, Geo.	17
Golden Drift Mining Co.	18
Gordon, Margaret	19
Higinbotham, T. B. & W. A.	20
Jordan, Alice W.	21
Kinney, H. C.	22
Knight, C. A.	23
McClure, W. H.	25
Morris , F. S. & R. W. Clarke	26
Neilson & McClure	27
Nichols, Gus.	28
Oldson & Berguist	29
Oregon Water & P. Co.	30
Payne, M. H.	24
Prospect Const. Co.	31
Rawley, John	32-33
Riedel, F. A.	34
Rogue River Elec. Co.	35-36
Rogue River Water Co.	37
Silsby, A. W.	35½
Table Rock Ditch Co.	38
Thomas, R.	39
Veghte, C. H.	40-41

BEFORE THE BOARD OF CONTROL OF THE STATE OF OREGON

WATER DIVISION No. 1

JACKSON, JOSEPHINE AND CURRY COUNTIES.

In the Matter of the Determination of the Relative Rights to the Waters of the Rogue River and its Tributaries. Water diverted from Rogue River Creek, ~~through~~ Ditch.

Rogue

STATEMENT AND PROOF OF CLAIMANT.

(The claimant must submit separate proof as to each ditch through which a water right is claimed.)

STATE OF OREGON, County of Josephine. } ss.

R. W. Clarke of Grants Pass, Oregon, being called as a witness in support of this Statement of Claim, and being first duly sworn, testified as follows:

1. Q.—*What is claimant's name and postoffice address? If a corporation, give the place of incorporation and the authority by which you make this proof.*

A.— Rogue River Water Company of Grants Pass, incorporated under the laws of Oregon, with its principal office at Grants Pase, Oregon. R. W. Clarke, authorized agent.

(If this proof is made by you as agent, or attorney, the written authorization therefor must be signed by the claimant upon the back hereof.)

2. Q.—*Do you claim a right to the waters of the above named stream or a tributary thereof? If from a tributary, give its name.*

A.— Yes.

3. Q.—*What is the nature of the right or use on which this claim to the waters of said stream is based?*

A.— Domestic, irrigation and power for the use of the City of Grants Pass and the inhabitants thereof.

(Irrigation, power, mining, domestic, stock, etc.)

4. Q.—*How was such right initiated, or upon what is it based?*

A.— By appropriation, diversion and general municipal uses.

(Appropriation, diversion and use, etc.)

5. Q.—*State the date of the initiation of such water right?* A.— 1888.

6. Q.—*What steps were taken by this claimant or his predecessor in interest to initiate said right? Answer fully, attaching separate sheet if necessary.*

A.— In 1888 a dam was constructed across Rogue River for the purpose of diverting the waters of said stream to the north bank thereof and thence conducted to a powe r house or pumping station situated

(See attached sheet for rest of answer)

7. Q.—*When was water first used for irrigation, or other beneficial purposes?*

A.— 1889. Used for domestic, power and irrigation purposes.

8. Q.—*State the means of utilizing such water, giving the name by which the ditch is most commonly known, if a ditch is used.*

A.— Pumping through a pipe system throughout the city.

9. Q.—*State the interest claimant has in such ditch, with the names of any other water users interested therein.*

A.—

10. Q.—*State the date of the beginning of construction.* A.—

11. Q.—*State the date of completion?* A.—

12. Q.—*State the dimensions of the ditch as originally constructed, just below the waste way or head gate?*

A.—*Width (top)* ..... *feet; width (bottom)* ..... *feet; depth* ..... *feet; grade, or fall in feet per 1000 feet,* ..... *feet.*

13. Q.—If said ditch has been enlarged, state the date of beginning and completion of each enlargement, and its dimensions as enlarged?

A.—.....

First enlargement—Width (top).....feet; width (bottom).....feet; depth.....feet; grade, or fall per 1000 feet,.....feet.

Second enlargement—Width (top).....feet; width (bottom).....feet; depth.....feet; grade, or fall per 1000 feet, ...feet.

14. Q.—State the area of land which your ditch, as originally constructed, was intended to irrigate? A.—.....acres.

15. Q.—If water is used for irrigation, state the number of acres reclaimed and irrigated the first year?

A.—.....

16. Q.—How many acres were irrigated each subsequent year up to and including the present year?

A.—.....

17. Q.—How many acres were irrigated after the first enlargement of said ditch? After each successive enlargement?

A.—.....

18. Q.—Give the number of acres irrigated under said ditch at the present time in each smallest legal subdivision (40-acre tract), using the following form. (The lands have been surveyed and are shown on the plat of the State Engineer, which you may examine at the time of the hearing. Your answer to this question should conform to those maps, unless you object to the same and submit maps of your own showing such information. No proof will be accepted which does not answer this question in detail.) (Attach separate sheet if necessary.)

A.—

Twp.	Range	Sec.	NE 1-4				NW 1-4				SW 1-4				SE 1-4			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼

Total.....acres

19. Q.—State the character of the soil and kind of crops cultivated?

A.—.....

20. Q.—When does the irrigating season begin and when does it end, and if water is used for other purposes, during what months is it used?

A.—Muhicipal use daily during the entire year.

21. Q.—*What amount of water do you estimate is necessary for the proper irrigation of the lands which you are irrigating or propose to irrigate, or for any other purpose for which a right is claimed?*

A.—For municipal use 10,000,000 gallons in each day of twenty-four hours.

*22. Q.—*Do you accept the maps prepared by the State Engineer as showing correctly the location of said ditch and the lands irrigated therefrom?*

A.—

**23. Q.—*If water is used for power, state the total fall utilized and the theoretical (not actual) horse power developed.*

A.—

24. Q.—*Describe the nature of the works by which the power is to be developed, the place where located, and state whether the water is returned to the stream after use and at what point?*

A.—

25. Q.—*If for mining purposes, describe the location and character of the mines to be served and state whether after use the water is returned to the stream and at what point?*

A.—

26. Q.—*If water is used for mining or power purposes, state whether there are any diversions between the point of your diversion and the return of such water to the stream.*

A.—

***27. Q.—*If the right claimed was initiated prior to February 24, 1909, but the water not yet fully applied, state whether such right was initiated by the construction of a new ditch or the enlargement of an existing ditch, and whether storage works are to be constructed?*

A.—

***28. Q.—*Give the length of such proposed ditch?* A.—

***29. Q.—*What is the estimated cost of such proposed construction?* A.—

***30. Q.—*When are the works intended to be completed?* A.—

***31. Q.—*State in detail, the number of acres which you propose to irrigate in each smallest legal subdivision (40-acre tract) under such proposed ditch or enlargement, using the following form. The lands at present actually irrigated should be described in answer to question 17. (Attach a separate sheet if necessary.)*

A.—

Twp.	Range	Sec.	NE 1-4				NW 1-4				SW 1-4				SE 1-4			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼

Total.....*acres*

***32. Q.—How many miles of ditch and what other construction work has been completed to date? A.— About twenty miles of pipe line--dam, powerhouses, pumps, water wheels and everything necessary to operate water system.

***33. Q.—State the cost of construction to date? A.— $200,000.00

34. Q.—What interest have you in the lands irrigated or place where the water is used?

A.—

35. Q.—Name at least three witnesses who will substantiate the statements herein made by you? Give their postoffice addresses.

A.— H. C. Kinney, J. D. Fry, Joseph Moss, J. T. Tuffs.

Post-office address of each of above witnesses, Grants Pass, Oregon.

36. Q.—What additional evidence have you attached hereto or submitted herewith?

A.—Part of answer to #6.

(If the witness finds the space insufficient to properly answer any question, he should attach hereto said answer on a separate sheet or sheets. A corporation supplying water for irrigation to lands not its own, should attach to its proof a complete list of the persons owning the lands so supplied, with the correct description of the lands owned by each such person in each smallest legal subdivision. Certified copies of records and such evidence as the claimant may desire to submit, should be attached to this proof and marked for identification as Exhibit "A." "B." "C." etc.)

I hereby certify upon oath that the foregoing statements and answers are true as I verily believe.

R W Clarke

Signature of Claimant, or agent making proof.

Subscribed and sworn to before me this 5th *day of* October, *191*1.

Geneva F. Brannan

Superintendent of Water Division No. 1, State of Oregon.

Filed: OCT - 5 1911 *191*....

Fees paid: ....., $.....

Superintendent of Water Division No. 1, State of Oregon.

*In case there is objection to the official plat the parties objecting must, when giving proof, file a written statement of the reasons therefor, and must, within thirty days, file with the Division Superintendent a map of said ditch and irrigated lands, with affidavit of surveyor thereto giving date of survey. Such map should be on tracing linen, on a scale of two inches to the mile (40 chains to one inch), and should have marked thereon, within each 40-acre legal subdivision, the area of land which is irrigated.

**Theoretical horsepower equals total quantity claimed in cubic feet per second, times fall in feet, divided by 8.8 (one cubic foot per second falling 8.8 feet equals one theoretical horsepower, or 550 foot pounds per second).

***Where a water right has been initiated prior to February 24, 1909, and the works are incomplete, or the water not yet or only partially applied to beneficial use, a map of lands on the above scale should accompany this statement, or filed with the Division Superintendent within thirty days from date of proof, which maps should be drawn on uniform sheets of tracing linen, on a scale of two inches to the mile (40 chains to one inch), and should show the area which it is proposed to irrigate in each 40 acre tract, as well as main canals and general plans of all important structures to be built. The affidavit of surveyor or engineer should be attached, with date. The surveys of the State Engineer will show only constructed works and lands now irrigated. Questions 26, 27, 28, 29, 30, 31 and 32 relate only to uncompleted rights.

AUTHORIZATION OF AGENT.

Rogue River Water Company of Grants Pass, State of Oregon, do hereby make and appoint R W Clarke of Grants Pass, my agent and attorney for me and in my name, place and stead, to make and submit the within Statement and Proof of Claimant, and I hereby designate said agent as the proper party upon whom lawful and valid service may be made of all process and notices in any contest commenced by or against me, in the within entitled matter, and said agent is hereby duly authorized to appear in any and all such contests as my true and lawful agent and attorney, giving and granting unto my said attorney full power and authority to do and perform all and every act necessary and requisite to be done in the premises, as fully as I might or could do if personally present, hereby ratifying and confirming all my said agent shall lawfully do by virtue of this power.

ROGUE RIVER WATER COMPANY.

By R W Clarke
President.

Attest: [illegible]
Secretary.

Signature of Claimant

Signature of Claimant.

BEFORE THE BOARD OF CONTROL OF THE STATE OF OREGON

Answer to Q. No. 6.

SECTION NO. 1

SALMON, JOSEPHINE AND CURRY COUNTIES.

A.- In 1888 a dam was constructed across Rogue River for the purpose of diverting the waters of said stream to the north bank thereof and thence conducted to a power house or pumping station situated about one-half mile west of Sixth Street. This station was used and maintained until July 1, 1907, when a new pumping station having been installed water was diverted from it. The new station was installed and still exists on Lot 18 in Block "V" Riverside Addition to the City of Grants Pass, since which time the entire supply for the said City of Grants Pass has been obtained by pumping from the said Rogue River. During all of the time since 1888 the water necessary to supply the City of Grants Pass and the inhabitants thereof has been diverted and pumped from Rogue River, and the same is now being diverted and pumped from Rogue River and the same is based upon the original location and use thereof made in 1888, togeather with the increased amount of water necessary to supply the said city and the inhabitants thereof.

In 1888 the population of the Town of Grants Pass did not exceed 1000 inhabitants, and the use of the waters of the said Rogue River has increased as the population has increased until the present use thereof is equal to the use required by a City of about 6000 inhabitants. The said City of Grants Pass is a rapidly growing community, and the use is claimed according to the needs of the said City.

7. Q.—When was water first used for irrigation, or other beneficial purposes?

A— 1888

8. Q.—State the means of utilizing each water, giving the name, if any, by which the ditch is most commonly known, if a ditch is used.

A— Through Ditch, owned and known as the Rogers Foley & Dickens Headgate Ditch

9. Q.—State the interest claimant has in such ditch, and the names of any other persons interested therein.

A— Claimant is owner of said ditch, as stated in this proof. Being the only person interested in same.

10. Q.—State the date of the beginning of construction. A— Started 1888

11. Q.—State the date of completion. A— Completed 1888

12. Q.—State the dimensions of the ditch as originally constructed, and what the present dimensions are?

A— Width (top) 16 ft. Depth 10 ft.

Above from page 152 behind this page

CITY OF GRANTS PASS

WATER DISTRIBUTION SYSTEM

MASTER PLAN

WEST YOST & ASSOCIATES

JANUARY 2001

CITY OF GRANTS PASS

WATER DISTRIBUTION SYSTEM

MASTER PLAN

RECEIVED
SEP - 3 2002
WATER RESOURCES DEPT

January 2001

REGISTERED PROFESSIONAL ENGINEER
10945PE
OREGON
DEC. 16, 1980
WALTER J. MEYER

EXPIRES: 12/31/2002

REGISTERED PROFESSIONAL ENGINEER
58808PE
OREGON
FEBRUARY 8, 2000
MARK W. ZINNIKER

EXPIRES: 6/30/2002

West Yost & Associates

WEST YOST & ASSOCIATES
Consulting Engineers

1990 10th Anniversary 2000

January 29, 2001

Mr. Rohel Amundson, Public Works Director
City of Grants Pass
101 Northwest A Street
Grants Pass, OR 97526

512-99-08

SUBJECT: Water Distribution System Master Plan

Dear Mr. Amundson:

The Grants Pass water distribution system is an important public utility with a long history of successful service. This Master Plan demonstrates that the existing system lends itself well for the expansions necessary to extend water service to the community as development continues in the urban growth area. Through implementation of the system improvement and expansion projects identified in this plan, the City will be able to provide water for a full range of demand conditions and fire protection.

In the near term, the recommended projects in the Capital Improvement Plan (CIP) are primarily pipeline construction. Later in the planning period, additional treated water storage facilities and pipelines to serve the peripheral areas of the community will be required.

The service area on the south side of the Rogue River is currently undergoing rapid development. Recently commissioned facilities in this area, including Reservoir 11, the New Hope Pump Station, and the transmission main in Redwood Avenue, are well suited to accommodate system expansions in this part of town. These facilities provide the backbone for long term extension of the water distribution system in this region.

City staff played an important role in the development of this Master Plan by providing background information, assessing alternative strategies, and reviewing the plan. We sincerely appreciate their considerable effort and cooperation.

Very truly yours,

WEST YOST & ASSOCIATES

Walter J. Meyer
Project Manager

Mark Zinniker
Project Engineer

132 East Broadway, Suite 431 Eugene, Oregon 97401 Phone 541 431-1280 Fax 541 431-1290 email: mail@westyost.com

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CHAPTER 1

EXECUTIVE SUMMARY

CHAPTER 1

EXECUTIVE SUMMARY

This master plan presents the results of the water distribution system planning effort conducted for the City of Grants Pass. The plan summarizes the components of the existing water distribution system, analyzes local water demand patterns, evaluates the performance of the water system with respect to critical service standards, and identifies the improvements necessary to remedy system deficiencies and accommodate future growth. Based on this analysis, the study recommends specific projects for inclusion in the water distribution system Capital Improvement Plan (CIP). These projects will ensure that the water distribution system continues to provide adequate and reliable service to the Grants Pass community.

Existing System

The existing water distribution system consists of a water treatment plant, nine booster pumping stations, eight reservoirs, two pressure reducing valves, and five altitude valves. The service area contains eight pressure zones which are summarized in Table 1-1 along with their respective static pressure ranges.

Table 1-1. Pressure Zone Ranges

Zone	Elevation (feet)	Pressure (psi)
1	900 – 1,020	36 – 90
2	1,020 – 1,140	41 – 95
2A	960 – 1,035	61 – 94
2B	1,000 – 1060	35 – 60
3	1,140 – 1,280	36 – 100
4	1,280 – 1,420	42 – 104
5	1,420 – 1,560	41 – 104
NV	995 – 1,165	101 – 177

Water Demand

Analysis of historical water production and water demand data allowed for the identification of the water use patterns that characterize the City of Grants Pass. These water use patterns provided the basis for estimating future water demand in the community when development has filled the urban growth boundary (UGB). Table 1-2 summarizes existing water demand in terms of average annual, maximum month, maximum day, and peak hour demand and provides projections for the UGB build-out condition.

Table 1-2. Water Demand Summary for Grants Pass

	Current Water Demand, mgd	Future Total Water Demand, mgd
Average Annual	4.5	9
Maximum Month	8	16
Maximum Day	10	20
Peak Hour	20	40

Water Distribution System Service Standards

The City of Grants Pass maintains benchmarks for service quality that are used to measure performance of the water utility. These benchmarks include service standards for water quality, quantity, and pressure, as well as the minimum supply levels for fire protection. For example, the Grants Pass water distribution system was analyzed to ensure that service pressures never fall below 35 psi during normal demand scenarios and fire flows (of up to 4,000 gpm) are available without dropping system pressures below 20 psi. The service standards set forth in this master plan are derived from regulations, rules, and recommendations established by a variety of sources including the Oregon State Health Division (OSHD), the Environmental Protection Agency (EPA), the American Water Works Association (AWWA), the Insurance Services Office (ISO), and the Uniform Fire Code (UFC).

Distribution System Modeling

A computer based hydraulic model of the Grants Pass water distribution system was developed as part of the master planning effort to evaluate the ability of the system to meet current and projected demands. The City's existing model was expanded and updated to simulate both the existing and future water distribution system. Field calibration work confirmed that the model accurately simulates operation of the water distribution system. The model was used to evaluate the existing and future water distribution system under three conditions:

- Peak hour demand
- Maximum day demand plus fire flow
- Low demand during water treatment plant operation

System Evaluation and Capital Improvement Plan Recommendations

The Grants Pass water distribution system was analyzed to evaluate its performance and capacity under current and future demand conditions relative to critical service standards. This analysis identified system improvements necessary to maintain adequate performance through build-out of the UGB. These improvements were developed to either eliminate existing deficiencies in system performance or expand service to satisfy community growth. The elements of the water distribution system that were evaluated include water treatment plant capacity, treated water storage capacity, booster pumping capacity, and pipeline network performance.

Table 1-3 presents the specific costs for reservoir, pump station, and pipeline projects that are targeted for implementation through build-out of the UGB. These costs account for developer participation in the financing of some pipeline expansion projects. Costs shown are the City's estimated share of the pipeline extensions and do not include the cost which will need to be borne by developers. Figure 1-1 illustrates how the new pump stations and reservoirs will fit into the existing hydraulic profile of the water distribution system. Figure 1-2 illustrates the layout of the future system including new pipelines, pump stations, and reservoirs.

Timing of projects is based on the City's review of the expansion plans and reflects developer interest and submitted development plans. Some adjustment of timing and priorities should be expected.

Table 1-3. Estimated Capital Costs for CIP Project

Recommended Improvements	Capital Cost, $1,000
Period 2000 – 2005	
Pump Stations	805
Pipelines	7,109
Total	7,854
Period 2005 – 2010	
Pipelines	1,049
Pipeline Replacement	1,124
Total	2,173
Period 2010 - 2020	
Treated Water Storage	5,720
Pipelines	2,042
Pipeline Replacement	2,248
Total	10,010
Period Post 2020	
Treated Water Storage	1,560
Pump Stations	400
Pipelines	184
Total	2,144
Grand Total	22,181

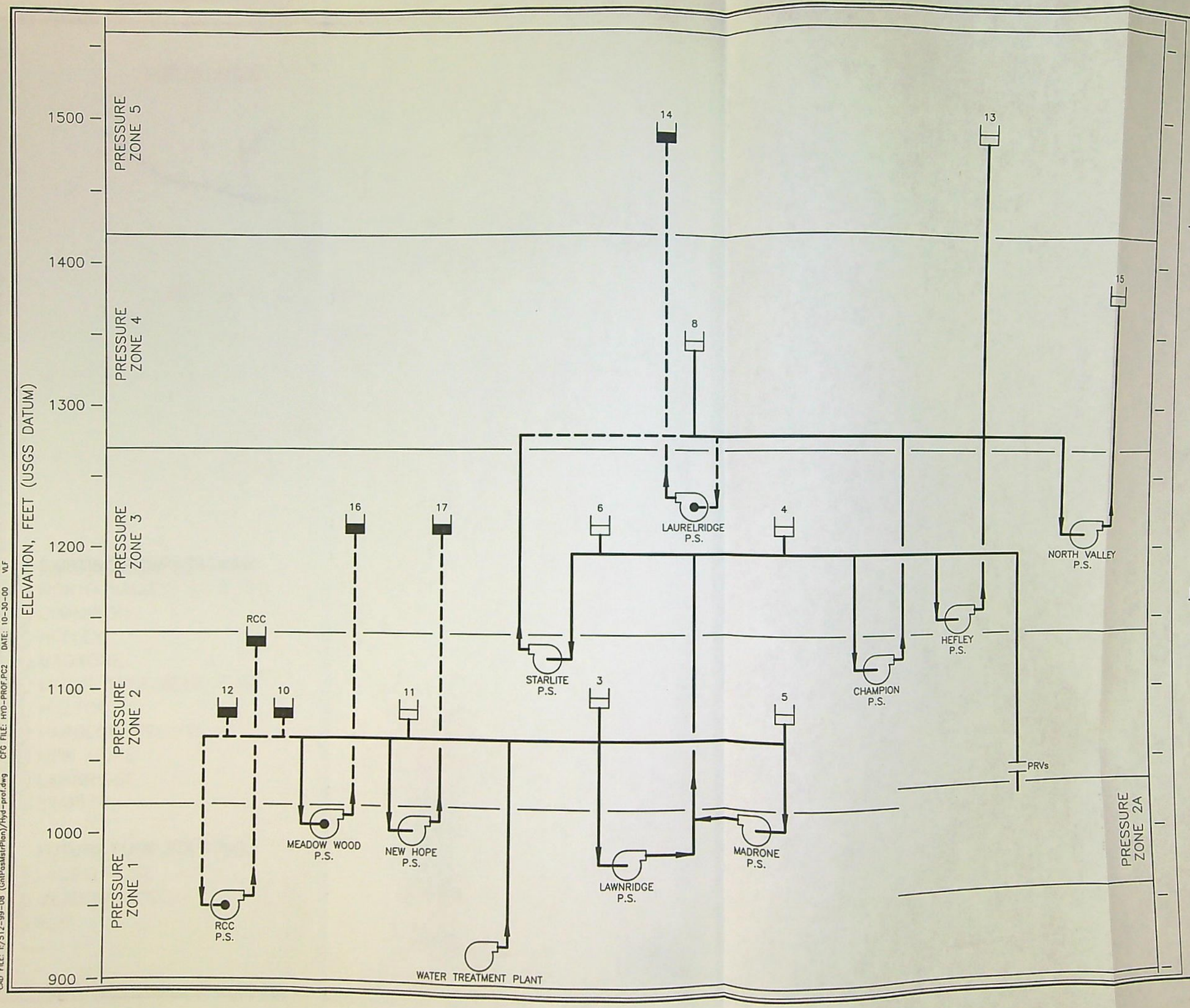

Figure 1-1

City of Grants Pass
Water Master Plan

WATER SYSTEM
HYDRAULIC PROFILE

WEST YOST & ASSOCIATES

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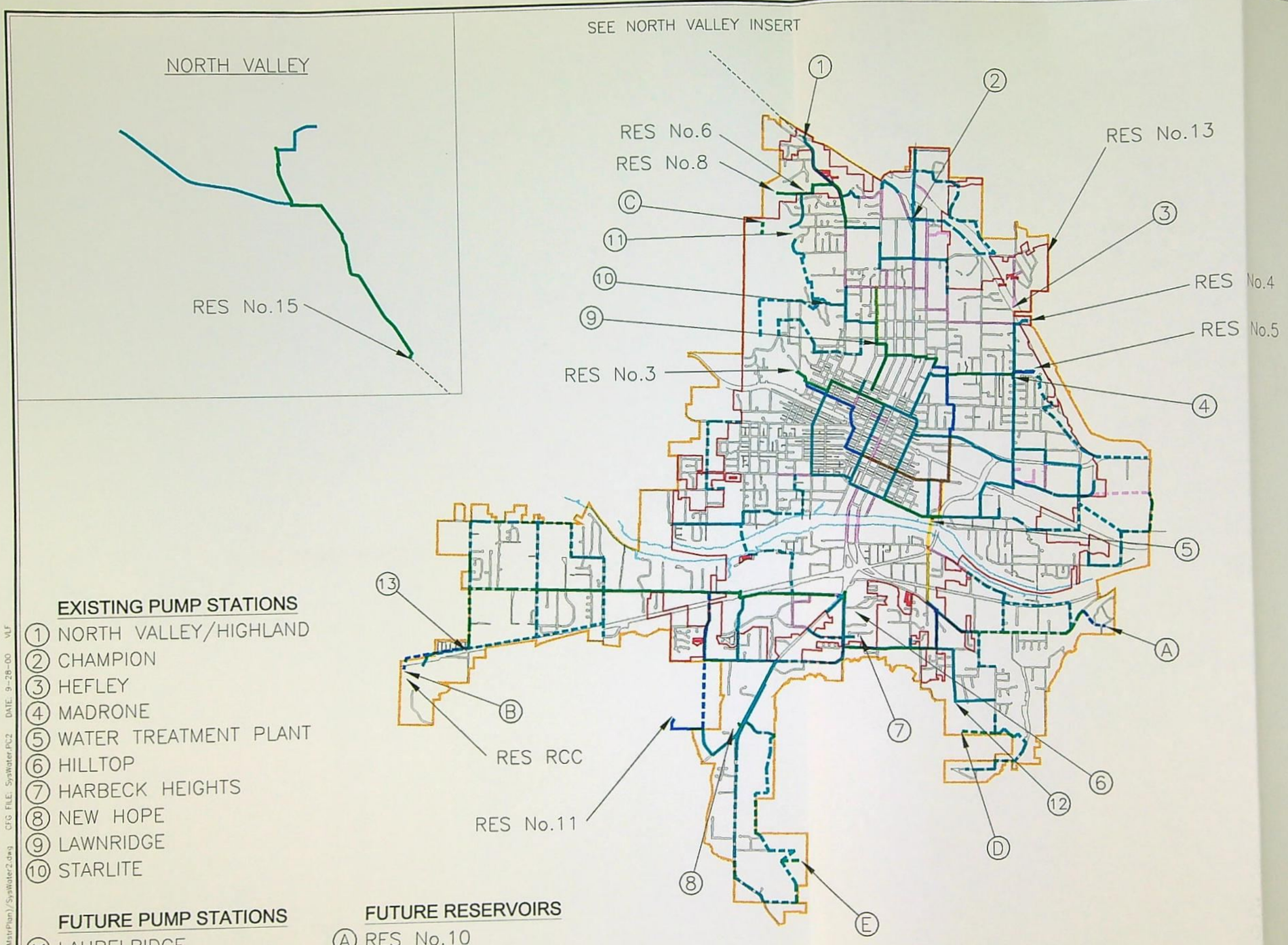

EXISTING PUMP STATIONS

1. NORTH VALLEY/HIGHLAND
2. CHAMPION
3. HEFLEY
4. MADRONE
5. WATER TREATMENT PLANT
6. HILLTOP
7. HARBECK HEIGHTS
8. NEW HOPE
9. LAWNRIDGE
10. STARLITE

FUTURE PUMP STATIONS

11. LAURELRIDGE
12. MEADOW WOOD
13. RCC

FUTURE RESERVOIRS

- A. RES No.10
- B. RES No.12
- C. RES No.14
- D. RES No.16
- E. RES No.17

FIGURE 1-2

CITY OF GRANTS PASS

FUTURE
WATER DISTRIBUTION SYSTEM

N

0 2000 4000
SCALE IN FEET

NOTES:

LEGEND:

- FUTURE PIPELINE
- CITY LIMITS
- UGB
- 10"
- 12"
- 14"
- 16"
- 20"
- 24"
- 30"
- 36"

WEST YOST & ASSOCIATES

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CHAPTER 2

EXISTING WATER DISTRIBUTION SYSTEM

CHAPTER 2

EXISTING WATER DISTRIBUTION SYSTEM

The Grants Pass water supply system currently distributes water to developed properties covering an area of more than 3,500 acres. The majority of the properties currently connected to the water distribution system are within the present city limits, although the City does provide service to some areas outside the city limits such as Harbeck-Fruitdale and the North Valley. The overall system is composed of a water treatment plant, eight booster pumping stations, eight reservoirs, two pressure reducing valves, and five altitude valves. Figure 2-1 illustrates the configuration of the Grants Pass water distribution system. The figure depicts all water distribution piping twelve inches in diameter and larger.

SOURCE OF SUPPLY

The source of supply for the City of Grants Pass is surface water from the Rogue River. The City draws water from the river with a pumping station located next to the water treatment plant. The treatment plant was originally constructed in 1930 and has undergone many renovations over the years. The most recent plant expansion was completed in 1983, bringing the total plant capacity to approximately 18 million gallons per day (mgd). Influent pumps deliver river water to the plant where the treatment process includes coagulation and sedimentation of suspended solids, filtration of the remaining particles, and chlorination for disinfection prior to pumping into the distribution system. The City has water rights for nearly 57 mgd.

DISTRIBUTION AND STORAGE SYSTEM

Pipeline Network

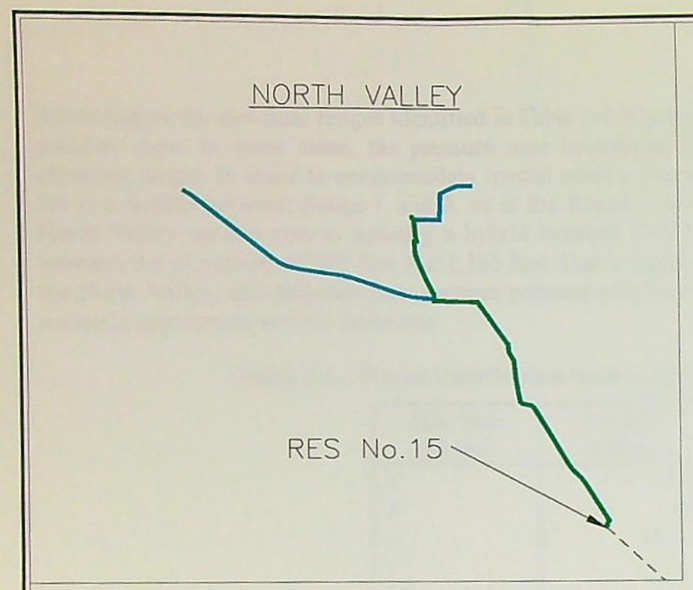
The Grants Pass water distribution pipeline network consists of approximately 130 miles of existing pipeline. Table 2-1 details the water distribution system according to pipeline length and diameter. These pipelines are made of cast iron or ductile iron and range in age up to approximately 80 years.

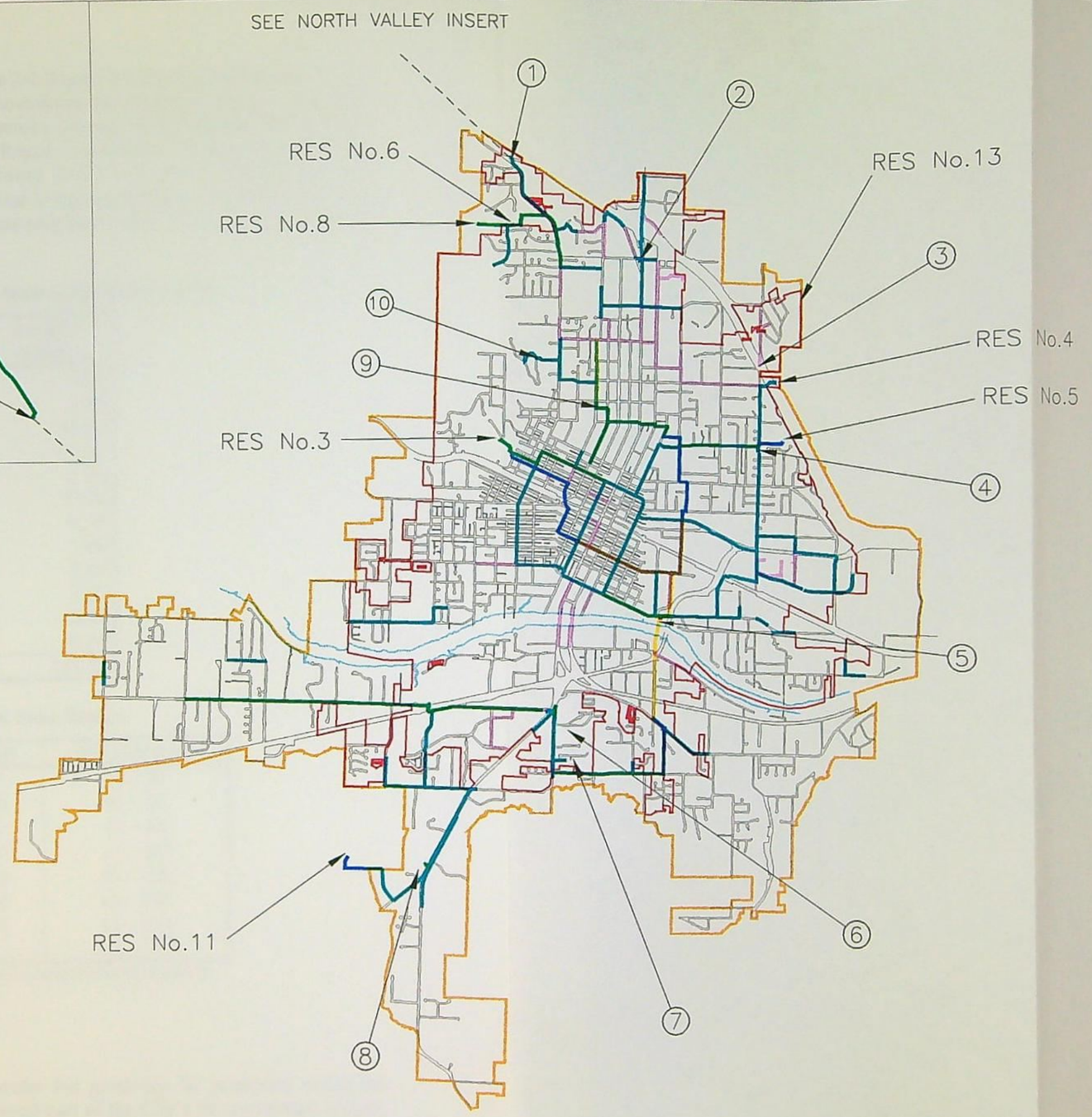
Service Pressures

The urban growth boundary for the City of Grants Pass encompasses lands of wide ranging elevations. As a result, the water distribution system service area contains eight separate service pressure zones. Table 2-2 summarizes the service elevations and static pressure range for each pressure zone. The lower end of the pressure range is based on reservoirs at 80 percent full and the upper end is based on full reservoirs. At this time, there are properties receiving City water service in each of the pressure zones except Zone 5.

FIGURE 2-1

CITY OF GRANTS PASS
WATER DISTRIBUTION SYSTEM





PUMP STATIONS

1. NORTH VALLEY/HIGHLAND
2. CHAMPION
3. HEFLEY
4. MADRONE
5. WATER TREATMENT PLANT
6. HILLTOP
7. HARBECK HEIGHTS
8. NEW HOPE
9. LAWNRIDGE
10. STARLITE

N

0 2000 4000
SCALE IN FEET

NOTES:

LEGEND:

- CITY LIMITS
- UGB
- 10"
- 12"
- 14"
- 16"
- 20"
- 24"
- 30"
- 36"

WEST YOST & ASSOCIATES

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According to the elevation ranges identified in Table 2-2, Figure 2-2 illustrates the extent of each pressure zone. In some areas, the pressure zone boundaries are modified slightly from these elevation ranges in order to accommodate special service pressure requirements. Pressure Zone 2A is a hybrid between Zones 1 and 2, as is the Rogue Community College's Zone 2B. The North Valley service area is actually a hybrid between Zones 1, 2, and 3, serving properties between the elevations of 995 feet and 1,165 feet. Due to the great range of elevations served in the North Valley, this pressure zone requires pressure reduction valves at service connections to maintain appropriate service pressures.

Table 2-1. Water Distribution System Pipeline Network

Pipe Size (inches)	Length (miles)
2	5.23
4	1.80
6	40.89
8	43.63
10	7.64
12	19.49
14	0.38
16	7.88
20	2.40
24	1.02
30	0.95
36	0.01
	131.32

Table 2-2. Pressure Zone Ranges

Zone	Elevation (feet)	Pressure (psi)
1	900 – 1,020	36 – 90
2	1,020 – 1,140	41 – 95
2A	960 – 1,035	61 – 94
2B	1,000 – 1,060	35 – 60[a]
3	1,140 – 1,280	36 – 100
4	1,280 – 1,420	42 – 104
5	1,420 – 1,560	41 – 104
NV	995 – 1,165	101 – 177

[a]This pressure range is approximate since construction details are not available for the RCC storage tanks.

Fire Protection

The Grants Pass Department of Public Safety provides fire protection for properties within the City. Since the water distribution system is an integral part of the City's fire protection system, the Department of Public Safety has adopted the Uniform Fire Code recommendations as the required fire flows for the various land use classifications within the City. These fire protection

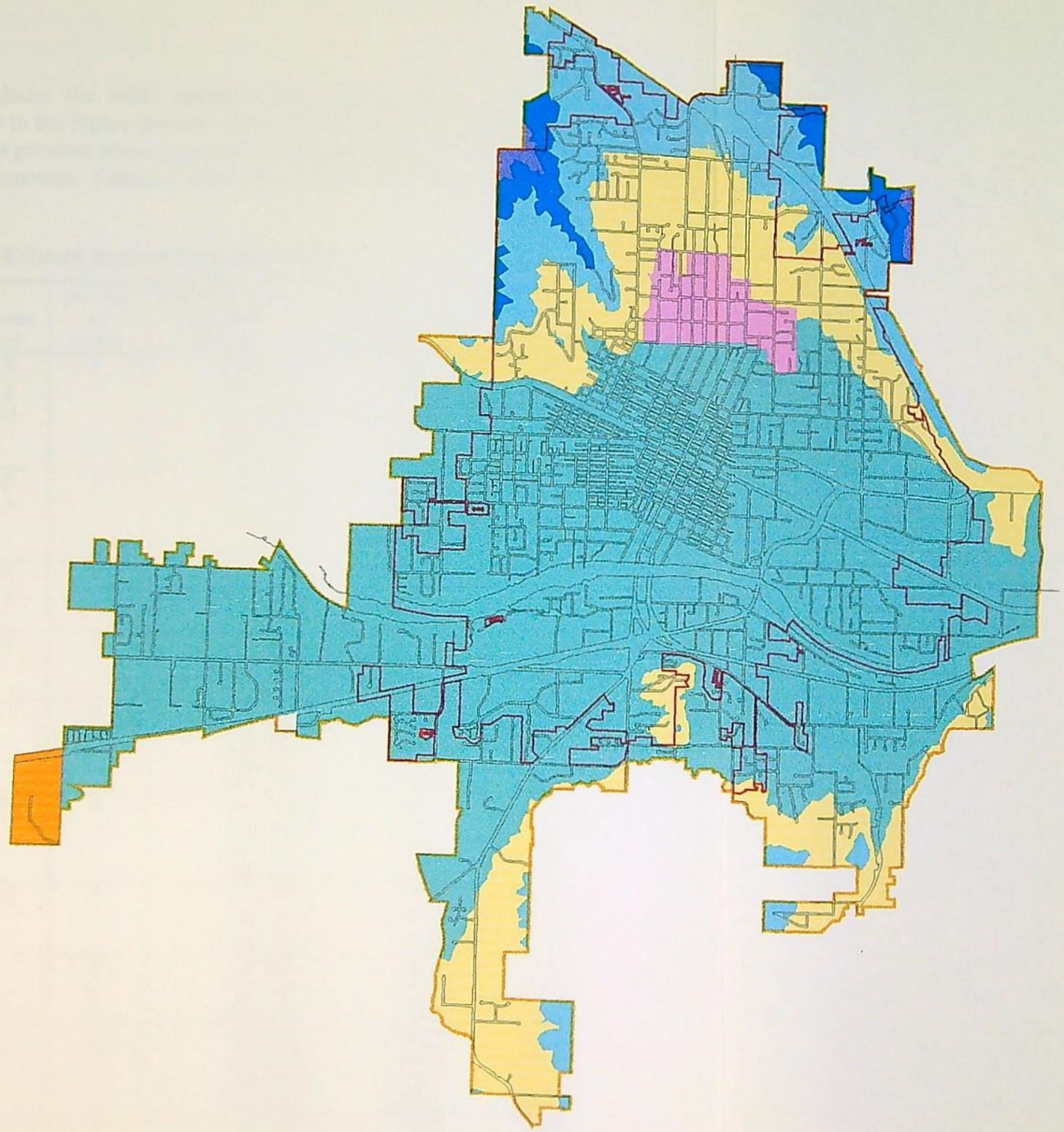

FIGURE 2-2

CITY OF GRANTS PASS
PRESSURE ZONES

N

0 2000 4000
SCALE IN FEET

NOTES:

LEGEND:

- CITY LIMITS
- UGB
- ZONE 1
- ZONE 2
- ZONE 2A
- ZONE 2B
- ZONE 3
- ZONE 4
- ZONE 5

WEST YOST & ASSOCIATES

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requirements are discussed in detail in Chapter 4, "Water Distribution System Service Standards."

Booster Pumping Stations

The water distribution system includes the water treatment plant pumps and nine booster pumping stations that transfer water to the higher pressure zones. These pump stations either fill the reservoirs that serve these higher pressure zones or pump to maintain a minimum pressure in those areas that are not served by reservoirs. Table 2-3 details the technical information for each of the system's pumping stations.

Table 2-3. Existing Booster Pumping Stations

Pumping Station Name	Pressure Zone Served	Reservoirs Served	Number of Pumps	Pump Motor Size and Speed (hp/rpm)	Capacity of Each Pump (gpm)	Rated Discharge Head (feet)
Treatment Plant	1	No. 3	5	300/1,775	3,500	220
		No. 5		300/1,775	3,500	220
		No. 11		250/1,760	3,500	210
				250/1,760	3,500	210
				200/1,750	2,600	210
Lawnridge	2	No. 6	4	25/1,750	400	120
		No. 4		50/1,750	1,000	120
				50/1,750	1,000	120
				100/1,750	2,000	148
Madrone	2	No. 4	3	60/1,750	2,000	170
		No. 6		401,750	1,200	170
				301,750	900	170
Champion	3	No. 8	3	50/1,750	800	165
				150/1,750	2,300	165
				100/1,750	1,600	165
Starlite	3	--	4	15/3,500	60	185
				30/1,760	450	185
				60/1,760	1,050	185
				30/1,760	450	185
Hefley	4	No. 13	4	7.5/3,500	40	250
				15/3,500	120	250
				60/3,500	600	300
				60/3,500	600	300
North Valley	NV	No. 15	3	7.5/3,500	70	170
				30/3,500	500	174
				30/3,500	500	174
Hilltop	2	--	3	5/3,600	100	120
				7.5/3,600	150	120
				40/3,600	750	120
New Hope	2	--	4	30/3,600	350	212
				30/3,600	350	212
				30/3,600	350	212
				150/1,800	2,000	200
Harbeck Heights	2	--	3	5/3,600	90	100
				5/3,600	90	100
				50/3,600	1,200	125

Reservoirs

There are eight treated water storage reservoirs within the Grants Pass water distribution system that provide a total of 19 million gallons of treated water storage. These reservoirs were constructed between the years 1946 and 1999. Design information for these reservoirs is detailed in Table 2-4.

Table 2-4. Existing Reservoirs

Reservoir Location	Reservoir Number	Pressure Zone Served	Year Built	Construction Materials	Capacity (mg)	Bottom Elevation (ft)	Overflow Elevation (ft)
500 Block Woodson Dr.	3	1	1946	Concrete	3.5	1,089.5	1,108.5
1500 Block Ridge Rd.	4	2	1953	Concrete	0.75	1,216	1,240
1400 Block Sherman Ln.	5	1	1983	Concrete	3.5	1,079.5	1,108.5
2200 Block Crown St.	6	2	1982	Concrete	3.5	1,211	1,240
Heiglen Loop Rd.	8	3	1983	Concrete	2.0	1,341	1,370
1420 Denton Trail	11	1	1999	Concrete	4.5	1,080.1	1,108.5
1700 Block Sunset Ln.	13	4	1980	Concrete	0.08	1,510	1,520
3900 Block Highland Ave.	15	5	1985	Concrete	1.2	1,374	1,403

SYSTEM OPERATION

The general procedures for operation of the Grants Pass water distribution system are discussed in the following sections.

Grants Pass Water Treatment Plant

The water treatment plant operates as necessary to fill storage reservoirs in the distribution system on a daily basis. Therefore, the operating schedule varies with seasonal variations in water demand. During the winter months, the plant generally operates seven days per week for an eight hour period. Operational hours are extended during the high demand summer months, when the plant must operate up to twelve hours daily in order to keep the storage reservoirs full.

Booster Pumping Stations Serving Areas With Reservoirs

Those booster pumping stations that fill storage reservoirs are automatically controlled to maintain preset water levels. When sensors show that the water level in a reservoir has fallen below a preset threshold, the lead pump will activate and begin filling the reservoir to a high water level. If water demand on the reservoir is such that a single pump cannot maintain the water level, a lag pump (or pumps) will activate as necessary until the reservoir fills to a high water level.

Booster Pumping Stations Serving Areas Without Reservoirs

Those booster pumping stations that serve areas without storage reservoirs are automatically controlled to maintain a minimum discharge pressure at the pumping stations. When pressure sensors show that the discharge pressure has fallen below a preset threshold, the lead pump activates and pumps until the discharge pressure exceeds a high pressure level. If water demand in the pump station's service area is such that a single pump cannot maintain the pressure level, a lag pump (or pumps) will activate as necessary until the system pressure is restored.

Reservoirs

The reservoirs in the water distribution system are generally maintained between 80 and 100 percent full. This fluctuating volume represents the operating storage. The remaining storage is allocated to providing fire flow requirements and emergency reserves. In the case of Reservoir No. 15 in the North Valley, water levels are maintained at a much lower level due to limited demand in that portion of the distribution system.

Altitude valves control the flow into and out of Reservoirs No. 3, No. 4, No. 5, No. 6, and No. 11. These valves are designed to close when the reservoir is full and open when the system pressure drops. The other reservoirs in the distribution system float on the system.

Pressure Reducing Valves

There are two pressure reducing valve stations in the Grants Pass water distribution system. These stations control the flow of water from Pressure Zone 2 to Pressure Zone 2A. Pressure Zone 2A extends to slightly lower elevations than Pressure Zone 2 and thus requires some pressure reduction. Each station contains a single pressure reducing valve (one is a 10-inch valve and one is a 6-inch valve).

Supervisory Control and Data Acquisition (SCADA) System

The City upgraded the water distribution system SCADA system in 1999. The SCADA system monitors reservoir levels, pump operating status, and local pressures throughout the system. The central computer system for the man-machine interface is located at the water treatment plant.

CHAPTER 3

WATER DEMAND ANALYSIS

CHAPTER 3

WATER DEMAND ANALYSIS

This chapter presents the analysis of historic water production and water demand data for the City of Grants Pass. Analysis of these historical data allows for identification of the unique water use patterns that characterize the City and provides a basis for estimating future water demand in the community. Additional analysis relates the various measures of water demand (maximum monthly demand, maximum daily demand, and peak hour demand) to the average annual demand through the use of peaking factors.

The projection of future water demand is based on unit demand factors developed by land use type and corresponding customer classifications. These future demand projections provide the basis for assessing the adequacy of the existing water distribution system and planning for future improvements.

EXISTING WATER USE

There are several measures of water use that are important to analyze during the development of the water master plan. Following is a description of the influential water demand factors that will guide planning decisions with respect to the Grants Pass water distribution system:

- Annual average demand – A measure of the amount of water that must be obtained from the available sources of supply on an annual basis.
- Monthly average demand – Review of monthly average water demand illustrates seasonal variations in demand due to such factors as climate, irrigation, industrial production, and domestic use patterns.
- Maximum day demand – The maximum daily water demand is used to size booster pumping stations that serve areas with storage reservoirs. This measure of demand is also used along with fire demands to size storage reservoirs.
- Peak hour demand – The peak hour water demand is used to size pipelines and booster pumping stations that serve pressure zones without reservoirs.

Annual Average, Monthly Average, and Maximum Day Water Demand

The Grants Pass Water Treatment Plant operators record water production volumes for each day of operation. Analysis of this data allows for the identification of annual average, monthly average, and maximum day water demand. Tables 3-1 through 3-5 present historical water production data for the past five years, from 1995 to 1999.

Table 3-1. Grants Pass Water Use for 1995

Month	Average Daily Demand, mg	Peak Daily Demand, mg
January	2.23	3.84
February	2.30	3.52
March	2.38	3.00
April	2.59	3.61
May	3.74	5.99
June	5.03	8.20
July	5.55	6.73
August	6.48	8.32
September	5.36	6.83
October	3.52	4.94
November	2.96	3.71
December	2.63	3.64
Average	3.73	--
Peak Day	--	8.32

Table 3-2. Grants Pass Water Use for 1996

Month	Average Daily Demand, mg	Peak Daily Demand, mg
January	2.96	3.24
February	2.60	3.57
March	2.57	3.46
April	2.75	3.93
May	3.71	5.49
June	5.80	7.37
July	7.11	9.09
August	7.22	8.82
September	5.27	7.67
October	3.98	5.50
November	2.84	3.47
December	2.57	3.81
Average	4.11	--
Peak Day	--	9.09

Table 3-3. Grants Pass Water Use for 1997

Month	Average Daily Demand, mg	Peak Daily Demand, mg
January	2.53	3.55
February	2.66	3.35
March	2.69	3.15
April	3.14	4.17
May	4.77	6.31
June	5.54	6.93
July	6.48	7.47
August	6.82	8.83
September	4.30	6.18
October	3.11	4.44
November	2.83	3.46
December	2.72	3.30
Average	3.97	--
Peak Day	--	8.83

Table 3-4. Grants Pass Water Use for 1998

Month	Average Daily Demand, mg	Peak Daily Demand, mg
January	2.50	3.21
February	2.62	3.47
March	2.76	3.11
April	3.02	4.90
May	3.33	4.34
June	5.73	7.52
July	7.08	9.15
August	7.62	9.47
September	6.31	8.63
October	3.64	5.66
November	2.65	3.94
December	2.78	4.06
Average	4.17	--
Peak Day	--	9.47

Table 3-5. Grants Pass Water Use for 1999

Month	Average Daily Demand, mg	Peak Daily Demand, mg
January	2.80	3.83
February	2.77	3.87
March	2.80	3.22
April	3.25	4.24
May	4.90	7.60
June	6.82	8.75
July	7.79	9.35
August	6.69	8.30
September	5.94	6.94
October	4.27	5.56
November	2.84	4.54
December	3.09	4.50
Average	4.50	--
Peak Day	--	9.35

From 1995 to 1999, the average annual demand increased from 3.73 mgd to 4.50 mgd. The highest peak daily demand was 9.47 mgd in August of 1998.

Per Capita Water Demand

Per capita water demand is a useful demand measure that is derived from this historical data. Table 3-6 presents the population for Grants Pass along with the average annual demand during the past five years which allows for calculation of the average demand in gallons per capita per day (gpcd). Ranging from 190 to 215, the average daily water demand is 202 gpcd. Note that this unit demand factor is based on water production and includes all uses: residential, commercial, industrial, public/institutional, and unaccounted. The variation in per capita demand for the different years reflects the regular variation in water use patterns caused by unsteady weather and end user demand characteristics.

Table 3-6. Grants Pass Water Use for 1995 to 1999, gpcd

Year	Population	Average Demand, mgd	Average Demand[a], gpcd
1995	19,660	3.73	190
1996	20,255	4.11	203
1997	20,535	3.97	193
1998	20,590	4.17	203
1999	20,935	4.50	215
Average	--	--	202

[a]Demands include all uses, including residential, commercial, industrial, and public/institutional.

Unaccounted for Water

All water distribution systems experience losses of water during transmission from the treatment plant to the end user. These losses, known as unaccounted for water, result from many situations including unmetered customers, transmission system leaks, main breaks, faulty meters, fire fighting activities, system flushing, and other miscellaneous hydrant uses. Thus, the total volume of water metered for all end users is always somewhat less than the volume of water produced at the water treatment plant.

Since the City of Grants Pass meters water use for all customers, a comparison of water billing records and treatment plant production data provides a good estimate of the volume of unaccounted for water in the system. Table 3-7 shows the estimated volume of unaccounted for water in millions of gallons and also as a percentage of total production during the past two years. Since a water loss rate of 10 to 15 percent is considered good, the calculated unaccounted for water rate indicates that the distribution system is in good condition. The City is also conducting several programs that will reduce the unaccounted for water rate. These programs include residential meter replacements, commercial meter upgrades, and improved monitoring of hydrant use.

Table 3-7. Unaccounted for Water; 1998 and 1999

Year	Million Gallons	Percent of Total Water Production
1998	146	9.6%
1999	190	11.6%

Unit Demand Factors by Land Use Pattern

Water demand factors related to land use patterns are used to analyze water demand in the community. Based on historical billing data provided by the City's Utilities Department for 1998 and 1999, Tables 3-8 and 3-9 show water demand for each month within three land use pattern classifications: commercial, single family residential, and multi-family residential. The commercial classification includes general business, industrial, institutional and governmental-public land use categories. As indicated in the percentage summary of annual average demand by land use, the single family residential classification accounts for nearly half of the water used in Grants Pass.

Table 3-8. Grants Pass Water Use by Customer Class for 1998

Month	Demand (mgd)			
	Commercial	Multi-Family Residential	Single-Family Residential	Total
January	0.87	0.44	1.03	2.34
February	0.94	0.47	1.09	2.50
March	0.77	0.37	0.88	2.02
April	0.93	0.46	1.05	2.43
May	1.04	0.48	1.25	2.76
June	1.18	0.54	1.62	3.34
July	1.97	0.84	2.94	5.74
August	2.37	1.04	3.80	7.22
September	2.22	0.93	3.28	6.43
October	1.83	0.75	2.32	4.89
November	1.17	0.52	1.25	2.94
December	0.97	0.48	1.11	2.56
Annual average	1.36	0.61	1.80	3.77
Percent of total annual average demand	36.0%	16.2%	47.8%	100%

Table 3-9. Grants Pass Water Use by Customer Class for 1999

Month	Demand (mgd)			
	Commercial	Multi-Family Residential	Single-Family Residential	Total
January	0.90	0.47	1.09	2.47
February	0.93	0.49	1.01	2.43
March	0.81	0.39	0.90	2.10
April	0.97	0.48	1.12	2.57
May	1.09	0.51	1.31	2.90
June	1.73	0.81	2.60	5.13
July	2.19	0.96	3.50	6.64
August	2.18	0.97	3.48	6.64
September	2.19	0.96	3.08	6.23
October	1.66	0.74	2.35	4.75
November	1.25	0.74	1.40	3.39
December	0.92	0.49	1.05	2.47
Annual average	1.40	0.67	1.91	3.98
Percent of total annual average demand	35.2%	16.8%	48.0%	100%

To develop a unit demand factor for the three different land use patterns, the water demand data presented in Tables 3-8 and 3-9 are combined with estimated areas for each of the land use classifications. Table 3-10 summarizes the acreages by land use classification and pressure zone for all areas receiving water service in Grants Pass. This summary was derived from analysis of a database containing the zoning designations for each parcel of property connected to the water distribution system for Pressure Zones 1 through 4. The acreage for Pressure Zone NV is based on an estimate of the properties connected to the system in the North Valley area. The quotient of water demand and acreage yields a unit demand factor for each land use classification in gallons per acre per day (gpad), as summarized in Table 3-11. Since the billing record information presented in Tables 3-8 and 3-9 does not include unaccounted for water, the calculation of these unit demand factors includes an allowance for unaccounted for water.

Table 3-10. Land Use by Pressure Zone in Acres

	Customer Class[a]	PZ 1	PZ 2	PZ 3	PZ 4	PZNV	Total	%
	Commercial	924	125	57	0	40	1,146	32%
	Residential	1,197	594	114	67	5	1,977	56%
	Multi-Family	358	42	35	0	0	435	12%
Total		2,479	761	206	67	45	3,558	100%
%		70%	21%	6%	2%	1%	100%	

[a]The Commercial customer class includes commercial, industrial, and public connections to the water distribution system.

Table 3-11. Unit Demand by Customer Class

Customer Class	1999 Average Demand[a] (mgd)	Land Use Area (Acres)	Average Unit Demand (gal/acre day)
Commercial/Industrial/Public	1.56	1,146	1,400
Multi-Family Residential	0.75	435	1,700
Single-Family Residential	2.13	1,977	1,100

[a]The 1999 average demand is based on billing records plus an additional 11.6 percent to reflect unaccounted for water

Peak Hour Demand

The peak hour demand on the water distribution system typically occurs during the hottest, driest period of the year when customers are heavily irrigating landscaped yards and parks. For the City of Grants Pass, the peak hour demand usually happens in the month of August during the peak day demand. In order to evaluate this peak hour demand, hourly water level data was collected from each of the reservoirs in the distribution system during the summer of 1999. These data were analyzed in combination with the water production rate for the water treatment plant to

identify the peak hour demand on each day for which data was available. Based on this analysis, the peak hour demand is estimated to be 4.5 times the average annual demand.

Historical Peaking Factors

The water demands observed over the past five years can also be expressed as a ratio to the annual average demand known as peaking factors. Although peaking factors vary significantly from user to user, these historical peaking factors are useful for comparing system-wide water use patterns in Grants Pass to other communities and for projecting future water use patterns. Table 3-12 identifies Grants Pass water demand patterns for the past five years and shows peaking factors based on ratios to annual average demand. The identified peak hour demands for the system are not actual measurements, but rather estimates derived from the reservoir level analysis conducted during the summer of 1999 as described above. Table 3-13 summarizes the average peaking factors for the system. These values are fairly typical for a Western Oregon community. In general, they are slightly higher than the peaking factors for Corvallis and slightly lower than values for Portland.

Table 3-12. Maximum Month, Peak Day, and Peak Hour Demand Ratio for Grants Pass 1995 to 1999

Year	Annual Average Demand, mgd	Maximum Month Demand, mgd	Peak Day Demand, mgd	Peak Hour Demand, mgd	Ratio of Maximum Month to Annual Average Demand	Ratio of Peak Day to Annual Average Demand	Ratio of Peak Hour to Annual Average Demand
1995	3.73	6.48	8.32	17.01	1.74	2.23	4.56
1996	4.11	7.22	9.09	18.60	1.76	2.21	4.52
1997	3.97	6.82	8.83	18.10	1.72	2.22	4.56
1998	4.17	7.62	9.47	19.40	1.83	2.27	4.66
1999	4.50	7.79	9.35	19.20	1.73	2.08	4.26
Average					1.76	2.20	4.51

Table 3-13. Peaking Factor Summary[a]

Description	Factor
Maximum month demand	1.8
Maximum daily demand Average for city	2.2
Peak hourly demand Average for city	4.5

[a]The average demand multiplied by the peaking factor yields the respective peak demand.

FUTURE WATER DEMAND

The land use demand factors developed in the previous sections provide a basis for projecting future water demand in Grants Pass. The land use demand factors can be used in conjunction with land development projections to estimate water demand.

Although the timing of land use development within the UGB is unknown, information is available regarding the current zoning designation for all properties within the UGB. Table 3-14 summarizes the acreage of properties within the UGB according to land use, differentiating between properties that are currently receiving water service and those that will connect to the water distribution system in the future. Using the unit demand factors developed for these land use classifications, the table also projects average annual water demand at the UGB build-out condition. This analysis assumes the existing mix of residential/commercial properties will stay the same in the future.

Table 3-14. Land Use Based Water Demand Projections for UGB Build-Out

Land Use	Existing Acreage	Future Acreage	Total Acreage	Unit Demand, gallons/acre-day	Estimated Average Annual Demand, mgd
Commercial	1,146	598	1,744	1,400	2.4
Single-Family Residential	1,977	2,419	4,396	1,100	4.8
Multi-Family Residential	435	440	875	1,700	1.5
Total	3,558	3,457	7,015		8.7

Based on this estimate of the UGB build-out average annual demand, the future maximum month, maximum day, and peak hour demand can be estimated using historical peaking factors. Table 3-15 summarizes existing water demand and projections for the build-out condition.

Table 3-15. Water Demand Summary for Grants Pass

	Current Water Demand, mgd	Future Total Water Demand, mgd
Average Annual	4.5	9
Maximum Month	8	16
Maximum Day	10	20
Peak Hour	20	40

In addition to properties within the UGB, there are properties contiguous to the boundary that are likely candidates for receiving water service in the future. Based on information from City planning staff, a rough estimate of the area of these properties is 400 acres. Assuming that these properties largely fall within the single family residential and industrial land use classifications,

the additional acreage would increase the annual average demand on the system by approximately 0.5 mgd.

Another location with the potential for future water system expansion is the North Valley/Merlin area. The existing North Valley Reservoir and Pump Station have the capacity to accommodate additional demand in the area. Based on the existing pumping capacity at the North Valley station, this portion of the system can serve a maximum day demand of 570 gpm. Assuming similar development patterns to the rest of Grants Pass, this demand rate is equivalent to approximately 300 acres of service area. Currently the North Valley system serves approximately 45 acres.

CHAPTER 4

WATER DISTRIBUTION SYSTEM SERVICE STANDARDS

CHAPTER 4

WATER DISTRIBUTION SYSTEM SERVICE STANDARDS

As the provider of water service to the community, the City of Grants Pass needs to establish benchmarks for service quality that can be used to measure the performance of the water utility. With respect to water distribution system service, customers expect the City to provide water at an adequate pressure for a full range of demand conditions. Also, since the water distribution network is an integral part of the fire fighting system, customers expect the City to provide adequate fire flow supplies to protect buildings and other properties within the community. The service standards presented in this chapter are provided as a basis for evaluation of the City's existing treated water supply and distribution system, and to guide the planning and design of improvements to the system necessary to meet future demands.

The following discussion presents service standards for water quality, quantity, and pressure, as well as the minimum supply levels for fire protection. The standards set forth in this chapter are derived from regulations, rules, and recommendations established by a variety of sources including the Oregon State Health Division (OSHD), the Environmental Protection Agency (EPA), the American Water Works Association (AWWA), the Insurance Services Office, Inc. (ISO), and the Uniform Fire Code (UFC).

WATER SERVICE QUALITY STANDARDS

Water service quality standards largely pertain to protecting public health and consistently delivering a satisfactory product to the customer. Most of the water quality considerations are related to supply and treatment issues and are not the subject of this plan. In a water distribution network, attention to enhancing the reliability of the system under all conditions is an important part of maintaining high quality water service. Reliability is achieved through a number of system features including adequate storage; redundant pumping, transmission, and rechlorination where required; and alternate power supplies. Reliability and water quality are also improved by designing looped water distribution pipelines and avoiding dead-end distribution mains whenever possible. Proper valve placement is also necessary to maintain reliable system operation under normal and abnormal operating conditions.

DISTRIBUTION AND STORAGE SYSTEM STANDARDS

The water supply distribution and storage system must allow for effective service under normal operations as well as during times of system stress, such as maximum day, fire flows, and peak hour demands. The following operational performance criteria are used in this Master Plan to evaluate the adequacy of the City's existing treated water distribution system, including treated

water storage facilities. These criteria also provide the basis for development of a program of improvements that will provide effective service as the City grows in the future. These criteria reflect standard water system planning criteria and design guidelines which have been developed by various State agencies and other water utilities to evaluate water systems under both normal and stressed demand conditions, including maximum day, fire flows, and peak hour demand conditions. The criteria used in this Master Plan are recommended to the City as long term system performance criteria and are defined below for critical operational conditions impacting individual water system components.

Water Supply and Treatment Capacity

The following criteria should be used to assess the adequacy of the City's water supply and treatment capacity.

Average Annual Demand. The reliable yield of all sources of supply needs to exceed the projected annual demand on the system. The definition of reliable yield of water supplies is that which can be delivered to the City during the worst drought.

Maximum Day Demand. Total potable water production and supply delivery capacity shall be equal to or greater than the maximum day demand. It is recommended that the total maximum potable supply capacity be at least ten percent greater than the maximum day demand. The treatment plant capacity analysis should account for the planned hours of operation if the plant will not be operated full time.

Maximum Day Demand plus Fire Flow. The water distribution system shall have the capability to meet a system demand condition equal to the occurrence of a maximum day demand concurrent with a fire flow event. If the supply to an individual pressure zone is from a pumped source, the supply requirement shall be met with the largest pump out of service. Since the plant does not operate at all times, the fire flow shall be met from treated water storage whenever possible in those pressure zones with reservoirs. Fire flow requirements are based on the UFC and are shown in Appendix 1. The minimum fire flow in the UFC is 1,000 gallons per minute for single and two-family dwelling units with less than 3,600 square feet.

Peak Hour. Peak hour demand shall be met from supply sources and treated water storage reservoirs.

System Pressure Requirements

Under normal operating conditions, water pressure in the distribution systems shall range between 35 and 100 psi. An analysis of the existing water distribution system indicates that this pressure range is generally consistent with the storage facility designs and pressure zone designations. The reservoir overflow elevations and pressure zone elevation ranges are such that the maximum head (elevation difference between a full reservoir and the lowest service connection) does not exceed 240 feet or 104 psi. The use of pressure reducing valves between pressure zones is acceptable when approved by the City Engineer. The minimum head (elevation

difference between the low reservoir operating level and the highest service connection) does not fall below 83 feet or 36 psi. Consistent with Oregon Department of Health rules, the minimum system pressure under fire flow conditions shall be 20 psi at the property line.

Some customers are required to install reduced pressure principle backflow preventers to protect the water distribution system from potential hazards associated with the customers' water use activities. These backflow preventers cause an extra pressure drop prior to delivery of the water to the customer. Depending on the location of the customer within the pressure zone, this pressure drop may move the service pressure below the service standard minimum. Under such conditions, adjustments to the pressure zone boundaries may be necessary to provide adequate service pressures.

System Storage Requirements

Criteria have also been defined for determining treated water storage capacity needs within the distribution system and individual pressure zones to meet diurnal operational peaks and emergency conditions. Storage requirements can generally be categorized into the following three components:

- operational storage
- fire flow storage
- emergency storage

A discussion of the typical design characteristics for these three components follows.

Operational Storage. Over any 24-hour period, water demands will vary. Typically, water demands will be high in the morning when people are getting ready to go to work and school, then will decline to some nominal baseline level (corresponding to water use patterns of commercial/industrial areas). They will then begin to increase again in late afternoon, reaching a higher water demand in the early evening as people return home from work. In Grants Pass, the water production rate varies as well since the water plant does not operate 24 hours per day. The water treatment plant is operated during normal working hours and shuts down at night to reduce operator labor costs. The storage volume used during periods when demand exceeds the production rate is called operational storage. Analysis of water demand data from the summer of 1999 indicates that up to 45 percent of daily water demand take place when the plant is not in operation. As a result, the effective operating storage used in Grants Pass is up to 45 percent of the daily water supply. When a water plant is operating full time and producing water at a rate equal to the daily demand, the operating storage is typically equal to 25 percent of daily demand. Therefore, the operating storage requirements are generally set at 25 percent of the maximum day demand. Since the Grants Pass water plant will most likely extend its hours of operating as system demand increases, this lower percentage of operating storage will ultimately become the appropriate requirement in this community as well. Based on this information, the current operational storage requirement should be 45 percent of the total volume of water used on a maximum day in order to be consistent with the current operating strategy. For assessments of

future storage requirements, the operational storage requirement should be based on 25 percent of maximum day demand to account for the prospective longer hours of plant operation.

Fire Storage. Discussions with Public Safety Department staff indicate that their fire flows requirements are based on the UFC. Minimum fire flows are to be met concurrently with a maximum day demand condition, while maintaining a minimum residual system pressure of 20 psi. Fire flows and the expected duration establish treated water fire storage requirements. The UFC fire flows and associated duration to be used in this master planning effort are shown in Appendix 1.

The storage requirements are based on flow [in gallons per minute (gpm)] requirements for the size of building (in square feet) and type of construction (wood frame, metal, masonry, installation of sprinklers, *etc.*). Once the fire flow requirement is established, it is multiplied by the required duration. This calculation will provide an estimate of the total volume needed for fire flow storage. The highest fire flow requirement for Grants Pass is for school facilities. These facilities typically have a UFC fire flow requirement of 4,000 gpm for a duration of four hours. The resulting volume needed for fire flow reserve is 960,000 gallons. A typical fire flow requirement for a commercial development is 2,000 gpm for a duration of two hours, resulting in a storage volume requirement of 240,000 gallons. Another important fire flow value is the requirement for residential areas. According to the UFC, typical one- and two-family residential areas are required to have two hour duration fire flows of 1,000 gpm for homes less than 3,600 square feet and 1,500 gpm for homes more than 3,600 square feet. This fire flow requirement equates to a storage volume requirement of 120,000 and 180,000 gallons respectively.

The largest fire flow requirements in Pressure Zones 1 and 2 are for school facilities. The largest fire flow requirement in Pressure Zone 3 and the North Valley are for commercial businesses. The fire flow requirement for all other pressure zones in the system should be based on a large home. Required fire flow volumes must be stored in reservoirs located within the pressure zone or readily available by gravity from storage in higher pressure zones.

Emergency Storage. A reserve of treated water is also required to meet demands during emergency outage periods, when normal supply is interrupted. Such conditions may arise due to loss of the water plant due to a power failure, loss of raw water supply, pumping equipment or pipeline failure, or the need to take facilities out of service for repair. Since the risk of an emergency situation is different for every town, the amount of reservoir volume allocated to emergency storage is different also. The required emergency storage volume is a function of several factors including the diversity of the sources of supply, redundancy and reliability of the production facilities, and the anticipated length of the emergency outage.

The Rogue River is the sole source of supply for the Grants Pass water system. Although the reliability and quality of the City's water supply has been excellent, it is vulnerable to temporary contamination by chemical spills into the Rogue River.

Consideration of a specific scenario is useful for preparing the City to manage emergency storage supplies during such an emergency event. Following are important issues that the City must be prepared to consider with respect to an emergency scenario:

- If the Rogue River became contaminated, it is estimated that it would take up to three days to allow the contamination to pass by the water treatment plant or to modify the process to treat the contaminated water.
- Immediately following the water treatment plant shutdown, the public must be notified and advised to adopt water rationing measures to prolong the availability of emergency storage supplies.
- If the shutdown were to occur during a period of peak day demand, it would take up to 12 hours for water rationing measures to be adopted, after which the demand would likely drop to one-half the annual average day demand for the remainder of the shutdown period.
- Response to an emergency depends on the ability of the City to reach its citizens with the necessary information. An extensive emergency curtailment plan is essential to effectively reduce water demand during an emergency.

Since every city considers a different set of factors in their risk evaluation, the volume of storage designated for emergency situations varies significantly from community to community. Review of other water system planning criteria for communities with surface water supply situations shows that emergency storage volumes vary from 25 percent of maximum day demand to 150 percent of maximum day demand. A 1998 Grants Pass City Council resolution set the emergency storage requirement at 75 percent of maximum daily demand. This resolution is included as Appendix 2.

Reservoir storage volumes must also be carefully selected to preserve high quality water in the distribution system. Disinfectant residuals will dissipate over time, so if water is stored for too long, there is a risk of bacterial regrowth. The recommended storage capacities should provide adequate water reserves without requiring the addition of disinfectant at the reservoir. Proper reservoir management plays a large role in ensuring that the average residence time of water supplies does not exceed two to three days. When a reservoir does not accomplish adequate turnover, the current City policy is to install rechlorination facilities

Total Water Storage. The minimum treated water storage capacity in the system available by gravity flow to each pressure zone should equal the sum of the following:

- Operational. The storage allocated for meeting diurnal demand peaks should be equivalent to 45 percent of the maximum day demand. This storage volume should be located within the pressure zone or available by gravity to the pressure zone. The operating storage volume can be reduced to 25 percent of maximum day demand when the water plant eventually reaches full time operation.

- Fire Flow. The storage allocated to provide fire flows should be equivalent to the maximum fire flow in the pressure zone times the duration the flow rate must be maintained. This volume is estimated as 960,000 gallons for Pressure Zones 1 and 2, 240,000 gallons for Pressure Zone 3, and 180,000 gallons for all other pressure zones.
- Emergency. The minimum emergency storage volume allocated for providing water during periods when normal supply is interrupted should be equivalent to 75 percent of the City's maximum day demand.

A table comparing the existing storage volume in the system and the recommended minimum storage volume is provided in Chapter 6, "Water Distribution System Evaluation."

Pipeline Networks

The pipelines and transmission mains in the City's distribution system will generally be sized based on the criteria described below for normal, maximum day and peak hour demand conditions.

- Service pressures shall be maintained between a maximum of 100 psi and a minimum of 35 psi.
- New reservoirs shall be placed so the overflow elevation is 100 feet above the normal upper service elevation of the pressure zone it is serving. Most of the existing reservoirs satisfy this standard.
- Fire flows will be provided by storage unless a specific exception is approved by the City. Booster stations can be allowed for small areas under the condition that they provide adequate flows, pressures, and reliable operation. These small areas will be defined as isolated zones with less than approximately 50 connections and where elevated storage is not practical.
- The minimum allowable residual pressure at hydrants located in the immediate vicinity of a simulated fire shall be 20 psi or greater during a maximum day demand.
- The minimum residual pressure during a peak hour demand shall be 35 psi.

Pump Stations

As mentioned above, if pumping facilities are to be used to meet the demands of a pressure zone with storage, sufficient pumping capacity shall be provided so that the maximum day demand can be supplied with the largest pump out of service. The pumping facility shall also be equipped with an emergency generator of sufficient capacity to operate the pumping plant at its rated capacity. This minimum supply requirement sets the pumping capacity requirement, if the pressure zone includes adequate treated water storage at sufficient elevation to allow gravity flow to serve the zone. If the pressure zone does not have storage reservoirs, the pump station should supply peak hour demand with one pump out of service. The station should also have two additional pumps to meet fire flow requirements and should be equipped with hydropneumatic tanks.

Valves

Valve location and spacing are important considerations in the design of a water distribution system. Pipelines must include an adequate number of properly located valves to allow for isolation of pipeline sections in the event of maintenance operations or new construction. ISO provides standards for valve spacing as identified in Table 4-1 for pipelines according to their function. A general guideline for locating valves in the distribution system is that smaller branch mains should be equipped with a valve so that any service problems on the branch pipeline does not require a shut off of the major transmission line. Within the distribution grid, placement of a valve on all but one leg of tees and crosses will minimize the extent of a service disruption during system work. For the same reason of localizing service disruptions, system design should always avoid direct service taps into transmission pipelines. Reservoirs shall be equipped with seismic valves that prevent drainage after a significant earthquake or a remote controlled shut-off valve.

Table 4-1. ISO Maximum Valve Spacing Standard

Pipeline Function	Maximum Spacing
Supply pipeline	1 mile
Transmission pipeline	¼ mile
Residential distribution	800 feet
Commercial distribution	500 feet

Hydrants

Fire hydrants are dispersed throughout the distribution system to provide the emergency flows required for fire protection. The requirements for spacing fire hydrants are defined in the Uniform Fire Code and have been modified by the City's development codes as shown in Table 4-2. Where required fire flows exceed 1,500 gallons per minute, the water supply must be provided by more than one hydrant. In addition to the maximum spacing requirements, any parts of a residence must be within 500 feet of a fire hydrant or any part of a business must be within 300 feet of a hydrant. Distances are measured along the route that the fire department will use to deploy the fire hose.

Table 4-2. Uniform Fire Code Hydrant Distribution Requirements

Land Use Category	Maximum Hydrant Spacing, feet
Residential	500
Commercial, general	300
Industrial	300
Schools	300
Offices	350

CHAPTER 5

DISTRIBUTION SYSTEM MODELING

CHAPTER 5

DISTRIBUTION SYSTEM MODELING

A computer based hydraulic model of the Grants Pass water distribution system was developed as part of the master planning effort to analyze the capability of the system to meet current and projected demands. Specifically, the model was used for the following types of analysis:

1. Evaluation of existing water facilities and operating strategies
2. Identification of current deficiencies in the distribution system
3. Development of recommended capital improvements
4. Sizing of system extensions

In addition to the system analysis work conducted as part of this master plan, the model will also be useful to the City in the future for a variety of purposes. The model will be an excellent tool for evaluating system planning issues and the effects of different operating strategies. The model will also serve as a good predictor of impacts to the system from proposed development projects.

Computer Modeling Program

The computer program CYBERNET 3.1 by Haested Methods was used to model the distribution system. The program was specifically developed for conducting steady-state and extended period analyses of a pressure pipe network. The model provides output in the form of local pressures and flows.

The CYBERNET computer model blends the capabilities of several types of programs (including CADD, GIS, database, and a hydraulic analysis engine) to facilitate the analysis and design of a water distribution system. The model incorporates all of the important hydraulic features of the distribution system including pipelines, pump stations, storage reservoirs, and valves. In addition to these hydraulic features, the model also establishes junction nodes at all intersections between pipes as well as any other important locations in the distribution system. The model links a graphical representation of the water distribution system to a database that describes the physical characteristics of each hydraulic feature (i.e. length, diameter, and roughness coefficient for a pipeline) and the physical and demand conditions at junction nodes (i.e. ground elevation and water demand).

CYBERNET also includes a scenario manager feature that allows the modeler to quickly evaluate a variety of water demand and operating conditions when analyzing the system. Using this feature, the modeler can conduct an hydraulic analysis of different combinations of demand alternatives, system configuration alternatives, and operating strategy alternatives. For example, to evaluate available fire flows in the distribution system, the modeler can create a scenario that

includes the maximum day demand, an 80 percent full storage reservoir configuration, and a night time operating strategy.

Grants Pass CYBERNET Model

The City of Grants Pass prepared an initial version of the CYBERNET model for the existing water distribution system based on their previous system model and updated system maps. The initial version of the model included all of the basic system data for pipelines and junction nodes. This version of the model was then delivered to West Yost & Associates (WYA) for additional refinement to ready the model for the master planning work. The key components of the existing system model included the following:

- The majority of system pipes 6-inches in diameter.
- All system pipes 8-inches and larger in diameter.
- All existing pumping stations.
- All existing storage reservoirs.
- All existing pressure reducing valves.

The City also provided a database of property parcels within the Grants Pass urban growth boundary that included information on acreage and zoning designation. Each parcel was associated with a CYBERNET junction node as a basis for allocating water demand across the water distribution system. These parcels were then categorized as either single family residential, multi-family residential, or commercial land use in order to be consistent with the demand analysis categories developed in Chapter 3. Using the acreage based demand factors developed in Chapter 3, each junction node was assigned an average water demand according to the acreage and land use designation of parcels drawing water from that node.

Each junction node in the system has a four number suffix label. The first number in the suffix label corresponds to the Pressure Zone in which the node is located. For example, J-1011 is in Pressure Zone 1, J-2216 is in Pressure Zone 2, and so on.

Model Calibration

The purpose of calibrating the hydraulic model is to confirm that the computer model accurately represents the operation of the water distribution system. Hydrant flow testing in the field is an important tool for developing measurements of actual system pressures and flows that can be compared to model predictions. These tests are useful in evaluating pipeline friction factors (specifically Hazen Williams equation coefficients or C-factors) and ensuring that the model closely represents actual observed conditions. The hydrant flow tests for this calibration process were performed by City water distribution personnel, the City Fire Department, and WYA staff on March 28 and 29, 2000.

The baseline C-factors used in the model were selected based on the material and age of the pipelines. The vast majority of pipelines in the distribution system are cast iron and ductile iron; minimal amounts of other pipe materials are present. City staff reviewed the available

construction drawings and categorized each pipeline in the model according to the decade in which it was installed. According to City records, pipelines installed prior to 1972 were predominantly of cast iron construction and pipelines installed after 1972 were predominantly of ductile iron construction. C-factors for these materials can range from a low of around 40 for unlined cast iron pipes in very poor condition to a high of 140 for newly installed, cement-lined pipe. This information was used along with pipeline condition information from the City's maintenance staff to assign an appropriate C-factor to each pipeline. Table 5-1 summarizes the C-factors selected for each decade of pipeline installation.

Table 5-1. Pipeline Age-Based C-Factor Summary

Decade of Pipeline Construction	Hazen Williams C-Factor
1920s	65
1930s	75
1940s	85
1950s	95
1960s	105
1970s	115
1980s	125
1990s	135
2000	140

After refining the City's hydraulic model, WYA worked with City maintenance staff to select 11 hydrant flow test sites. Selection of the hydrant test locations was based on pipeline size, age, location within the different pressure zones, and configuration of the surrounding pipeline system.

The general testing procedure for a hydrant flow test is outlined below:

- Measure the static pressures at the designated test hydrant and at each observation hydrant.
- Flow the designated test hydrant and measure the discharge flow and pressure.
- Measure the residual pressures at the designated test hydrant and at each observed hydrant while the test hydrant is flowing.

In addition to the field measurements taken at the flowing and observation hydrants, other important system data were recorded during the hydrant flow tests. Using the water treatment plant's SCADA system, plant staff monitored reservoir levels and pump operating status throughout the water distribution system during the test period. These data were critical for establishing the water system context within which the hydrant flow tests took place. A review of plant water production data and analysis of the changes in reservoir levels also allowed for calculation of system demand on the flow test days. Water demand during the hydrant flow tests

was approximately 2.85 mgd, approximately two-thirds of the annual average demand in Grants Pass.

Calibration Results. Based on the field and SCADA system data collected on March 28th and 29th, each hydrant flow test was simulated using the CYBERNET model of the water system. CYBERNET predictions were then compared to the field measurements to evaluate the need for adjustments to pipeline friction coefficients, ground elevations, or other system variables. Overall, the required adjustments to the baseline input data were very minor and calibration of the CYBERNET model was readily successful.

The model's ability to accurately predict head losses in the system during high flow conditions is of primary importance. This ability is necessary for verifying the presence of adequate pressures in the system during critical fire flow conditions. During a hydrant flow test, these head losses in the system correspond to the difference between static and residual pressures at the observed hydrants. Tables 5-2 through 5-11 summarize the static, residual, and differential pressures for both the field test data and the calibrated model predictions. The goal of our calibration effort was to achieve no greater than a 3 to 4 psi difference between the field hydrant test differential and the calibrated model differential. This goal was achieved with an average difference in differentials of 1.5 psi.

The static pressures in the system are largely related to the elevation of the test hydrant, pump operating status, and reservoir levels. However, the exact nature of local background flows at the time of the flow test can also influence the static measurement since they induce a pressure drop in the system. The average difference between the measured and modeled static pressures is 2.25 psi and in general they are well within 5 psi of each other. Otherwise, differences in the modeled and actual local background flows or slight pressure gauge calibration problems are the most likely explanation for discrepancies in static measurements.

Table 5-2. Field Test #1
Ironwood and Webster Rd.
6", 8", and 12" lines in Pressure Zone 1 – 1990s Installation
Hydrant Test Flow Rate = 1,540 gpm

		Field Data			Modeled Data			Comparison Of Differential Pressures (psi)
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	
733 (F)	1411	91			89			
659	1239	87	60	27	90	62	28	1
732	1412	89	60	29	90	62	28	1

(F) Flowing hydrant

Table 5-3. Field Test # 2
Fairview Avenue between Agness and Foothill
8" line in Pressure Zone 1 – 1980s Installation
Hydrant Test Flow Rate = 1,530 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
506 (F)	1413	60			58			
505	1417	60	55	5	59	56	3	2
507	1418	57	50	7	56	52	4	3
508	1419	50	45	5	52	48	4	1

(F) Flowing hydrant

Table 5-4. Field Test #3
Evelyn Ave. and Hawthorne Ave.
8" and 16" lines in Pressure Zone 1 – 1930s Installation
Hydrant Test Flow Rate = 1,790 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
109 (F)	1420	64			65			
115	1374	65	59	6	62	58	4	2
116	1421	65	60	5	67	63	4	1
119	1078	55	51	4	57	53	4	0

(F) Flowing hydrant

Table 5-5. Field Test #4
Forestview and West Harbeck
8" line in Pressure Zone 1 – 1990s Installation
Hydrant Test Flow Rate = 1,070 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
791 (F)	1000	57			56			
790	1422	60	36	24	60	38	22	2
709	1423	65	42	23	65	46	19	4

(F) Flowing hydrant

Table 5-6. Field Test #5
Southridge and Harbeck Rd.
8" line in Pressure Zone 1 – 1980s Installation
Hydrant Test Flow Rate = 1,410 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
610 (F)	1266	52			50			
609	1424	56	44	12	54	41	13	1
608	1425	60	54	6	59	52	7	1

(F) Flowing hydrant

Table 5-7. Field Test #6
Millbanks and M St.
12" lines in Pressure Zone 1 – 1950s Installation
Hydrant Test Flow Rate = 1,590 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
206 (F)	1361	75			74			
24	1426	70	65	5	75	72	3	2
722	1427	75	70	5	73	70	3	2
611	1428	72	67	5	74	71	3	2

(F) Flowing hydrant

Table 5-8. Field Test #7
Highland Ave. at Sandy
12" line in Pressure Zone 2 – 1980s Installation
Hydrant Test Flow Rate = 1,930 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
550 (F)	2159	89			89			
291	2007	84	73	11	87	76	11	0
548	2158	85	70	15	91	80	11	4

(F) Flowing hydrant

Table 5-9. Field Test #8
Scoville Rd and Ausland
12" line in Pressure Zone 3 – 1980s Installation
Hydrant Test Flow Rate = 820 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
535 (F)	3047	50			43			
536	3070	55	46	9	52	42	10	1
537	3071	66	59	7	64	55	9	2

(F) Flowing hydrant

Table 5-10. Field Test #9
Morgan Lane and Candler
8" lines in Pressure Zone 3 – 1980s and 1990s Installation
Hydrant Test Flow Rate = 1,960 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
416 (F)	3067	95			95			
765	3072	87	80	7	83	77	6	1
829	3026	87	80	7	89	81	8	1

(F) Flowing hydrant

Table 5-11. Field Test #10
Morgan Lane and Crown
12" line in Pressure Zone 3 – 1990s Installation
Hydrant Test Flow Rate = 1,910 gpm

		Field Data			Modeled Data			Comparison
Hydrant	Node	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Static Pressure (psi)	Residual Pressure (psi)	Differential Pressure (psi)	Of Differential Pressures (psi)
831 (F)	3027	72			70			
764	3073	82	79	3	75	72	3	0

(F) Flowing hydrant

Reservoir 11 Flow Monitoring. In addition to the hydrant flow tests that were conducted throughout the water distribution system, field measurements of the Reservoir 11 fill rate were also compared with CYBERNET predictions as part of an operational strategy assessment for the new reservoir. Water treatment plant staff recorded the Reservoir 11 fill rate along with water

levels in all of the Pressure Zone 1 reservoirs during the week of May 1, 2000. WYA selected the field data from the morning of May 3, 2000, during the treatment plant start-up as the basis for comparison with the model. At that time, plant staff measured a Reservoir 11 fill rate of approximately 1,100 gpm with three pumps in operation. Using the monitored Pressure Zone 1 reservoir levels and an assumed system demand equal to the average day, the CYBERNET model predicted a Reservoir 11 fill rate of 1,060 gpm. This information is summarized in Table 5-12.

Table 5-12. Reservoir 11 Flow Monitoring

Location	Plant Measurement (gpm)	Model Prediction (gpm)	Comparison of Differential Flow Rate (gpm)
Reservoir 11	1,100	1,060	40

Extended Period Analysis - Memorial Day Weekend 2000. Finally, the model was used to simulate changes in storage reservoir water levels during a 38-hour period while the water treatment plant was not operating over Memorial Day Weekend 2000. To account for the dynamic conditions in the distribution system over this length of time, the extended period analysis required more detailed data inputs than the steady state analyses conducted for the hydrant flow tests. The additional information required for an extended analysis include a diurnal curve for water demand in the system and pump on/off timing for each distribution system booster pump, all of which was available from SCADA system records for this 38-hour period. Some redistribution of demand among the pressure zones was also necessary to account for increased demand in the residential areas and reduced demand in the commercial areas due to the holiday. With these adjustments in place, the model was able to predict the final water levels in the reservoirs to within an average of 1.1 feet of their measured level as shown in Table 5-13. The largest discrepancies between measured and predicted water levels were for Reservoirs No. 4 and No. 13. These two reservoirs are the smallest in the system, where the level differences represent relatively small volume differences. Given the generalized methodology used to distribute demand across the system, the predictions from the 38-hour extended period analysis are very accurate.

Calibration Conclusion. The comparative analysis of field measurements and model predictions confirms that the calibrated CYBERNET model is capable of simulating operation of the existing water distribution system with a high degree of accuracy. Therefore, the model provides an excellent basis for analyzing the adequacy of existing facilities, analyzing proposed plans for system expansion and modification projects, evaluating different operational strategies, and designing specific improvements to the system.

Table 5-13. Memorial Day Weekend Extended Period Analysis

Reservoir	Beginning Reservoir Level at Plant Shut Down *May 28, 16:00* (feet)	Ending Reservoir Level at Plant Start-Up *May 30, 06:00* (feet)	Ending Reservoir Level CYBERNET Prediction *May 30, 06:00* (feet)	Difference between CYBERNET And Measured Level (feet)
3	17.6	2.3	3.2	0.9
4	18.5	14.7	17.6	2.9
5	28.3	14.0	12.9	1.1
6	27.1	21.6	22.2	0.6
8	27.9	21.0	20.8	0.2
11	29.6	21.2	19.9	1.3
13	7.4	7.4	5.3	2.1
15	14.4	13.4	13.4	0
Average				1.1

CHAPTER 6

WATER DISTRIBUTION SYSTEM EVALUATION

CHAPTER 6

WATER DISTRIBUTION SYSTEM EVALUATION

The Grants Pass water distribution system was analyzed to evaluate its performance and capacity under current and future demand conditions relative to the service standards defined in Chapter 4. This analysis identified system improvements necessary to maintain adequate performance through build-out of the urban growth boundary (UGB). These improvements were developed to either eliminate existing deficiencies in system performance or expand service to satisfy community growth. Each improvement project was assigned a general timing estimate in one of the following four future periods:

- Year 2000 to 2005
- Year 2005 to 2010
- Year 2010 to 2020
- Year Post 2020

In this manner, the identified improvements and estimated timings form the basis for the recommended capital improvement program presented in Chapter 7.

The elements of the water distribution system evaluated in this chapter include water treatment plant capacity, treated water storage capacity, booster pumping capacity, and pipeline network performance with respect to current and future demand conditions. These evaluations were based on the demand projections presented in Chapter 3 and the results of computer model hydraulic analyses.

WATER TREATMENT PLANT CAPACITY

The Grants Pass water treatment plant has a maximum treated water production capacity of 18 mgd. However, as noted later in the pumping capacity analysis, the firm pumping capacity of the plant is currently limited to approximately 16 mgd. As specified in Chapter 4, "Water Distribution System Service Standards", the available water treatment plant capacity should be sufficient to meet anticipated maximum day demand with at least an additional ten percent capacity available. The additional ten percent is necessary to allow for backwashing filters, meeting drinking water quality standards with difficult raw water, or repairing equipment failures. As the single source of supply for the system, the water treatment plant must provide the entire required capacity.

Table 6-1 summarizes the treatment plant capacity evaluation for current and build-out demand conditions. The existing water treatment plant has ample capacity relative to current demand. This situation allows the City to operate the water plant on a part-time basis even during the current water demand peaks in the summertime. Although the plant will eventually require a

capacity expansion of approximately 4 mgd prior to build-out, the existing plant capacity is anticipated to be sufficient for the near term future. An extension of the plant operating hours will forestall the need for treatment capacity expansions. The future expansion will bring the ultimate plant capacity to 22 mgd and will require full-time operation. With extended operating hours and a two percent annual water demand growth rate, this plant expansion will not become necessary until well after the year 2020.

Table 6-1. Water Treatment Plant Capacity Evaluation

Period	Maximum Day Demand, mgd	WTP Capacity Requirement, mgd	Existing WTP Capacity, mgd	Additional WTP Capacity Required, mgd
Current	10	11	18	None
UGB Build-Out	20	22	18	4

TREATED WATER STORAGE CAPACITY

The Grants Pass water distribution system includes eight treated water reservoirs serving five separate pressure zones. As defined in Chapter 4, the treated water storage reservoirs serve three principal purposes: operational storage to meet diurnal fluctuations, emergency storage, and fire flow storage. The required storage volume for these three purposes is determined individually and then combined to identify the total amount of storage volume required within a given pressure zone and for the overall system. For added reliability, the storage should be located to allow gravity flow into the pressure zone where it is required. This arrangement eliminates the need for pumping facilities that require a backup power system during power outages. Storage located in higher pressure zones also benefits lower zones by providing a potential source of gravity supply through the addition of pressure reducing stations to the system. The following treated water storage standards were established in Chapter 4 for evaluating system capacity:

1. Operational storage equal to 45 percent of maximum day demand for current demand and part-time plant operation. Operational storage equal to 25 percent of maximum day demand for future demand and full-time plant operation.
2. Emergency storage equal to 75 percent of maximum day demand.
3. Fire flow storage based on the largest fire flow requirement in the pressure zone.

The combination of these three storage components yields the total storage required, which is equal to 1.2 times maximum day demand plus fire flow for the current condition and simply maximum day demand plus fire flow for the future condition. The fire flow volume is based on a 4,000 gpm/4 hour fire in Pressure Zones 1 and 2, a 1,500 gpm/2 hour fire in Pressure Zone 4, and a 2,000 gpm/2 hour fire in the other pressure zones.

Table 6-2 summarizes the evaluation of treated water storage requirements for current demand conditions. The existing system contains an overall treated water storage capacity of 19 million

gallons which is ample for overall current levels of demand. The significant volume of storage that is available in the system relative to maximum day demand provides ample operating storage, thus allowing the water treatment plant to effectively operate on a part-time basis without compromising emergency storage or fire flow storage supplies. Existing storage volumes are also sufficient for current demand on a zone-by-zone basis except in Pressure Zone 4 where only 80,000 gallons of storage volume is available. The existing available storage in North Valley is somewhat overstated since only approximately one third of the 1.2 million gallon storage volume available in Reservoir 15 is actually utilized due to limited demand in that portion of the system.

Table 6-2. Current Treated Water Storage Evaluation

Pressure Zone	Current Max Day Demand, mgd	Required Operational Storage, mg	Required Emergency Storage, mg	Required Fire Flow Storage, mg	Required Total Storage, mg	Existing Available Storage, mg
PZ 1	7.0	3.2	5.3	0.96	9.4	11.5
PZ 2	2.1	0.9	1.6	0.96	3.5	4.3
PZ 3	0.6	0.3	0.5	0.24	1.0	2.0
PZ 4	0.2	0.1	0.2	0.18	0.5	0.1
PZ NV	0.1	0.1	0.1	0.24	0.4	1.2
Total	10.1	4.5	7.6	2.6	14.7	19.0

Table 6-3 summarizes the treated water storage evaluation for future demand conditions. For the build-out demand condition, the water distribution system will extend to two large areas with Pressure Zone 2 elevations and one large area with Pressure Zone 4 elevations. These areas (Williams Highway and Meadow Wood areas in southern Grants Pass and Laurelridge in northwestern Grants Pass) are isolated from existing portions of the system within the same pressure zone range. All three areas will thus require dedicated treated water storage. Table 6-3 refers to these pressure zones as PZ 2WH, PZ 2MW, and PZ 4LW. As indicated in the table, Pressure Zone 4 storage will remain deficient in the future. Otherwise, the only other areas requiring additional storage to satisfy build-out development are in Pressure Zone 1. Additional Pressure Zone 1 storage is necessary due to substantial expansion of the water distribution system on the south side of the Rogue River and would be best supplied from two reservoirs. These reservoirs would be located in the southeastern and southwestern extremities of the zone. Since some of the existing storage is located in higher pressure zones where it is unavailable to the lower zones, the new treated water storage volume required to satisfy build-out demand conditions is actually greater than the 4.5 million gallon difference between required and existing storage.

Table 6-4 summarizes the recommended location and volume of future storage tank construction. These new storage tanks are located and sized to satisfy system demand through build-out. Whenever possible, the reservoir numbers used in this table are consistent with the numbering convention used in the 1979 Master Plan. Two reservoirs that were included in the previous

master plan, Reservoir No. 7 and Reservoir No. 9, are no longer recommended for construction. Reservoir No. 7 was eliminated due to scaling back of the UGB in the northeast part of town. Reservoir No. 9 was eliminated due to the presence of adequate storage capacity in the other Pressure Zone 1 reservoirs. No reservoir construction is necessary in the near term future.

The proposed Reservoir No. 12 is located on the southwest periphery of Pressure Zone 1. Due to the great distance from the water treatment plant to this reservoir, the other relatively closer Pressure Zone 1 Reservoirs will fill faster. This fill rate imbalance can be remedied by designing the future RCC pump station with the capability to both serve Pressure Zone 2 and fill Reservoir No. 12.

Table 6-3. Build-Out Treated Water Storage Evaluation

Pressure Zone	Build-Out Max Day Demand, mgd	Required Operational Storage, mg	Required Emergency Storage, mg	Required Fire Flow Storage, mg	Required Total Storage, mg	Existing Available Storage, mg
PZ 1	14.2	3.5	10.6	0.96	15.2	11.5
PZ 2	2.8	0.7	2.1	0.96	3.8	4.3
PZ 2MW	0.4	0.1	0.3	0.18	0.6	0.0
PZ 2WH	1.1	0.3	0.8	0.18	1.3	0.0
PZ 3	1.2	0.3	0.9	0.24	1.4	2.0
PZ 4	0.3	0.1	0.2	0.18	0.5	0.1
PZ 4LW	0.2	0.1	0.2	0.18	0.4	0.0
PZ NV	0.1	0.0	0.1	0.24	0.4	1.2
Total	20.4	5.1	15.3	3.1	23.5	19.0

Table 6-4. Recommended Storage Tank Construction

Reservoir	Location	Volume, mg	Construction Timing
No. 10	Highway 99 East	1.7	Post 2020
No. 12	Rogue Community College	2.0	2010-20
No. 14	Valley View West	0.4	2010-20
No. 16	Meadow Wood	0.6	2010-20
No. 17	Cathedral Hills	1.3	2010-20
No. 13 (replacement)	Sunset Lane	0.4	2010-20
Total		6.4	

BOOSTER PUMPING CAPACITY

There are ten booster pumping stations in the Grants Pass water distribution system. The booster pumping facility criteria require that pumping stations are able to supply the maximum day

demand within all dependent pressure zones over a 24 hour period. This criterion assumes that there is sufficient treated water storage within the pressure zone to meet the operational, emergency, and fire storage criteria. The pumping station should be equipped with a backup energy source of sufficient capacity to operate the pumping plant at its rated capacity. The rated capacity of a pumping station is based on the largest pump being out of service. This criteria does not apply to the small pressure zones which are served by booster pumps with hydropneumatic tanks. For these small pressure zones, the pump station should be sized such that it can supply peak hour demand with one pump out of service. These stations should also have a redundant pump to meet fire flow requirements.

Table 6-5 summarizes the booster pumping capacity evaluation for the water distribution system with current demand levels. Current pump station capacities are adequate for meeting the appropriate performance criteria of either maximum day demand or peak hour demand. However, the Hilltop and Harbeck Heights pump stations serve isolated areas without storage, so these stations should have a redundant fire flow pump. A pipeline linking the two service areas would also provide redundancy, but yields no cost savings. The water treatment plant pumping capacity is significantly higher than the system-wide maximum day demand, allowing the pumps to operate on a part-time basis. Table 6-5 also includes the New Hope Pump Station which was recently built to serve Zone 2 developments in the southwest. Although construction is complete, the existing connections to the system and associated demand are currently limited.

Table 6-5. Current Booster Pumping Capacity Evaluation

Pump Station	Current[a] Max Day Demand, mgd	Current[a] Max Day Demand, gpm	Existing Pumping Capacity, gpm
Plant[b]	10	6,940	11,100
Lawnridge & Madrone	3.1	2,150	4,500
Champion	1	690	2,400
North Valley	0.1	70	570
Hefley[c]	0.2	140	760
Starlite[d]	0.08	60	960
Hilltop[e]	0.04	30	250
Harbeck Heights[f]	0.04	30	180
New Hope[g]	NA	NA	1,050

[a]Peak hour demand is used for those stations that serve areas without reservoirs.
[b]Noted capacity is based on plant operator measurement of the firm capacity for the plant effluent pumps. The capacity of the plant influent pumps is 9,600 gpm with one pump out of service.
[c]The Hefley station has two fire flow pumps with a total capacity of 1,200 gpm.
[d]The Starlite station has a fire flow pump with a capacity of 1,050 gpm.
[e]The Hilltop station has a fire flow pump with a capacity of 750 gpm.
[f]The Harbeck station has a fire flow pump with a capacity of 1,200 gpm.
[g]The New Hope station has a fire flow pump with a capacity of 2,000 gpm.

Table 6-6 shows the booster pumping capacity evaluation for future demand conditions. Three new pump stations will be required for the build-out system in order to serve southeastern and southwestern Pressure Zone 2 and 3 and northwestern Pressure Zone 4. Two of these stations are already under design: Meadow Wood Pump Station in the southeast and Laurelridge Pump Station in the northwest. A third pump station is necessary to serve the Rogue Community College campus in the southwest. The Meadow Wood Pump Station is being designed to serve both Pressure Zone 2 and a small area of Pressure Zone 3. Since these three pump stations are planned to be built to serve areas without adequate reservoir storage for fire flows, the recommended pump station capacities allow for the inclusion of fire flow pumps. In addition to the new pump stations, booster pumping capacity expansions will be necessary at the water treatment plant for Pressure Zone 1. Also, the Hilltop and Harbeck Heights pump stations lack redundant fire flow pumps. The Ausland Pump Station, which was identified for future construction in the 1979 master plan, is not included in this master plan due to scaling back of the UGB in the northeast part of town. The City may still maintain possession of a site for this pump station since the UGB may expand to the northeast in the future.

Table 6-6. Build-Out Booster Pumping Capacity Evaluation

Pump Station	Build-out Max Day[a] Demand, mgd	Build-out Max Day[a] Demand, gpm	Existing Pumping Capacity, gpm	Needed Capacity, gpm
Plant	20.4	14,170	11,100	3,070
Lawnridge & Madrone	4.5	3,120	4,500	NA[b]
Champion & Starlite	1.7	1,180	3,360	NA
North Valley	0.1	70	570	NA
Hefley	0.3	210	760	NA
Hilltop[a]	0.04	30	250	NA
Harbeck[a]	0.04	30	180	NA
New Hope	1.1	760	1,050	NA
Meadow Wood	0.4	280	0	280
Laurelridge	0.2	140	0	140
Rogue Community College	0.1	110	0	110

[a]Peak hour demand is used for those stations that serve areas without reservoirs.
[b]NA = Not applicable.

Based on these capacity evaluations, Table 6-7 summarizes the recommended location, capacity, and timing of pump station construction or renovation projects through build-out. Two of these pump stations, Meadow Wood and Laurelridge, are already under design. In many cases, the capacity improvements can be phased to keep pace with demand.

Table 6-7. Recommended Pump Station Capacity Improvements

Pump Station	Capacity, gpm	Construction Timing
Treatment Plant Effluent Pumps	3,100	Post 2020
Hilltop Fire Flow Pump	1,000	2000-05
Harbeck Heights Fire Flow Pump	1,000	2000-05
Meadow Wood	1,280	2000-05
Laurelridge	1,140	2000-05
Rogue Community College	1,110	2000-05

PIPELINE NETWORK PERFORMANCE EVALUATION

The CYBERNET computer model was used to evaluate performance of the water distribution system pipeline network. Separate models were developed to evaluate the system under existing and build-out conditions. The existing system model was developed to reflect the pipeline configuration as of the spring of 2000. The build-out system model includes all of the proposed pipelines necessary for solving existing system deficiencies as well as expansion of the water distribution system to serve all developable land within the urban growth boundary. A map showing all existing and proposed pipelines in the Grants Pass water distribution system is included in Appendix 3. The specific alignments of the proposed pipelines shown on this map are tentative and flexible. The actual alignments will conform to future land use, development pattern, easement acquisition, and topographic considerations identified during the design phase of project implementation.

The distribution system was modeled under three scenarios that simulated the critical conditions that are most demanding of pipeline network performance capabilities. The three scenarios that were modeled include:

- Peak hour demand
- Maximum day demand plus fire flow
- Low demand during water treatment plant operation

Peak Hour Demand Analysis

The peak hour demand scenario was modeled as taking place during the afternoon on a summer day when the irrigation demands are high. The water treatment plant and booster pump stations in the system were operating at their rated capacity during the peak hour and storage reservoir levels were set at 80 percent full.

The service standard for minimum system pressure was used as the criteria for identifying deficiencies for the peak hour demand scenario. Table 6-8 summarizes the nodes in the system with pressures less than 35 psi during peak hour demand conditions. In each case, the pressure deficiency is caused by excessive elevation of the service connection since the location of the node is beyond recommended range for the given pressure zone. The top of the elevation range

for Pressure Zone 1 is 1,020 feet and the top of the elevation range for Pressure Zone 2 is 1,140 feet. Table 6-8 identifies the location, pressure estimate, and recommended corrective action for each of the deficient nodes. In addition to the identified low pressures, these nodes are also problematic with respect to available fire flows. The majority of the deficiencies can be corrected by reconfiguring the pipeline network to modify the local pressure zone boundary. In some areas, these modifications to zone boundaries may require the installation of individual pressure reduction valves on some service connections. The Woodson Drive pressure deficiency is caused by an isolated hilltop which does not easily allow for reconfiguration of the pressure zone boundaries. Auxiliary pumping will solve the peak hour low pressure problems on Woodson, but fire flow availability will remain a problem.

Table 6-8. Peak Hour Demand Deficiency Summary

CYBERNET Node Label	Location	Pressure Zone	Elevation (feet)	Pressure (psi)	Recommended Corrective Action	Project Timing
J-1102	Foothill Blvd.	PZ 1	1,036	27	Reconfigure PZ boundary	2000-05
J-1142	Foothill Blvd.	PZ 1	1,026	31	Reconfigure PZ boundary	2000-05
J-1356	Madrone & Beacon	PZ 1	1,037	28	Reconfigure PZ boundary	2000-05
J-1377	Grant and E	PZ 1	1,052	24	Reconfigure PZ boundary	2000-05
J-2067	Valley View Rd	PZ 2	1,164	28	Reconfigure PZ boundary	2000-05
J-2216	Woodson Dr.	PZ 2	1,162	21	Auxiliary pumping	2000-05

Maximum Day Demand Plus Fire Flow Analysis

The maximum day demand plus fire flow scenario was modeled as taking place during the night when storage reservoir levels were depleted to 80 percent of their full capacity. Since the water treatment plant is typically not operating at night, all of the required fire flow was derived from storage sources in those zones with reservoirs. This scenario was modeled to verify the availability of minimum fire flows for residential (1,000 pgm), commercial (2,000 gpm), multi-family (2,000 gpm), and schools (4,000 gpm) at those nodes servicing these land uses.

As indicated above, minimum fire flow requirements were used to identify system deficiencies for the maximum day demand plus fire flow scenario. The available fire flow at a node is defined as the maximum flow available from a given node without reducing pressure anywhere within the same zone below 20 psi. The fire flow analysis report from the CYBERNET model was reviewed to identify any deficiencies with respect to minimum fire flow requirements. In addition to verifying the system-wide minimum fire flow of 1,000 gpm, the available fire flows were also reviewed for any violations of the 2,000 gpm minimum fire flow for all nodes serving commercial and multi-family developments and the 4,000 gpm minimum fire flow requirement

for all nodes serving school facilities. Due to the presence of several areas in the system with insufficient looping or extensive networks of 6-inch diameter pipe, there were many nodes that did not meet minimum fire flow requirements. Table 6-9 identifies the location, available fire flow estimate, required fire flow, and recommended corrective action for each of the deficient areas. Although Table 6-9 identifies only one node for each problem area, many of these problem areas are actually indicated by a cluster of deficient nodes. The deficiencies identified in Table 6-9 provided the basis for the development of capital improvement projects for the existing system.

In order to distinguish pipeline projects in the CIP, each individual project is assigned a numerical designation such as P-101, P-102, etc. Since correction of existing deficiencies is a high priority, these pipeline projects are targeted for implementation in 2000-05.

Low Demand with Booster Pump Operation

The low demand, booster pump operation scenario simulated a time when the pumps were filling reservoirs while demand on the system was only at 20 percent of average day. Once again, the water level in reservoirs was set at 80 percent of full capacity.

The service standard for maximum system pressure was used as the criteria for identifying deficiencies for the low demand scenario. Table 6-10 summarizes the nodes in the system with pressures over 100 psi. In each case, the excessive pressure was caused by nodes with elevations below the elevation of the service connection since the location of the node is beyond recommended range of service connections for the given pressure zone. In each case, the excessive pressure is caused by the low elevation of the service connection since the location of the node is beneath the recommended range for the given pressure zone. Although Table 6-10 identifies only one node for each problem area, many of these problem areas are actually indicated by a cluster of excessive pressures.

In general, the recommended corrective action for high pressure areas is the installation of individual pressure reduction valves on service connections. However, the very high pressures in the North Valley pressure zone warrant the installation of two pressure reduction stations. Site selection for these pressure reduction stations will require a review of the topography in the North Valley and consideration of any planned expansion to the service area.

Table 6-9. Maximum Day Demand Plus Fire Flow Deficiencies

Location and Minimum Node Label	Pressure Zone	Available Fire Flow, gpm	Required Fire Flow, gpm	Recommended Corrective Action	Pipeline Project Number
Residential Land Use Areas					
W. Harbeck Rd J-1261	PZ 1	833	1,000	Provide looping from W. Harbeck Rd. to Allen Creek Rd. (600 ft, 8-inch)	P-101
Ringuette St. J-1246	PZ 1	704	1,000	Provide looping from Ringuette St. to Union Ave. (1,110 ft, 12-inch)	P-102
B St. and Grant St. J-1076	PZ 1	470	1,000	Reconfigure Pressure Zone 2 boundary	NA*
Leonard St. J-1153	PZ 1	746	1,000	Provide looping from G St. (440 ft, 8-inch)	P-103
Lower River Rd. J-1463	PZ 1	923	1,000	Provide looping along Lower River Rd. (1,660 ft, 8-inch)	P-104
Prospect Ave Looping J-2500	PZ 2A	732	1,000	Provide looping to Gilbert Way (600 ft, 8-inch)	P-105
Crescent Dr. J-2030	PZ 2	459	1,000	Provide large diameter transmission line into Crescent Dr. from Hawthorne (6,000 ft, 12-inch)	P-106
10th and Primrose Pl. J-2051	PZ 2	904	1,000	Provide looping from 9th St. (1,350 ft, 8-inch)	P-107
Tokay Heights J-2212	PZ 2	695	1,000	Provide looping from Sherman Ln. (1,960 ft, 12-inch)	P-108
Starlite Pl. J-3060	PZ 3	877	1,000	Reconfigure Pressure Zone 4 boundary	NA*
Commercial and Multi-Family Land Use Areas					
Marion Ln. J-1241	PZ 1	1,374	2,000	Provide looping to Ringuette St. on Redwood Hwy. (1,280 ft, 8-inch)	P-109
C St. J-1133	PZ 1	1,281	2,000	Provide looping from D St. (550 ft, 8-inch)	P-110
Schools					
Fruitdale Elementary J-1334	PZ 1	3,859	4,000	Hamilton Lane looping (1,030 ft, 12-inch)	P-111
Riverside Elementary J-1366	PZ 1	2,467	4,000	Agness to Gladiola connection (2,420 ft, 12-inch)	P-112
Parkside Elementary J-1179	PZ 1	2,201	4,000	Lincoln Rd. looping and Bridge to Brownell Connector (4,430 ft, 12-inch)	P-114
Lincoln Elementary J-2034	PZ 2	2,927	4,000	10th and Savage St. tie-in (60 ft, 12-inch)	P-114

* NA = Not Applicable

Table 6-10. Excessive Pressures under Low Demand with Booster Pump Operation

CYBERNET Node Label	Location	Pressure Zone	Elevation (feet)	Pressure (psi)	Recommended Corrective Action
J-2033	10th St. and Churchill St.	PZ 2	997	109	Individual pressure reduction valves
J-2129	A St. and Piedmont Ave.	PZ 2	998	119	Individual pressure reduction valves
J-3006	Buddy Lane and Hawthorne	PZ 3	1,081	126	Individual pressure reduction valves
J-3061	7th St and Morgan	PZ 3	1,115	116	Individual pressure reduction valves
J-3066	Cook Ave and Highland	PZ 3	1,105	112	Individual pressure reduction valves
J-4019	Beacon Dr. and Roseana Dr.	PZ 4	1,197	139	Individual pressure reduction valves
J-5018	Merlin	North Valley	995	174	Pressure reduction valves for the pressure zone

Pipeline Network Expansion

In addition to the improvement projects designed for correcting deficiencies in the existing system, the pipeline network will also require expansion into areas within the UGB that are not yet served by the water distribution system. In order to plan for these future expansions of the pipeline network, the CYBERNET model was used to size the main transmission lines that will be required to extend water service throughout the UGB. The majority of the pipeline network expansion projects are located to the south of the Rogue River, although there are also a few expansion projects in northern Grants Pass. In a few instances, the expansion projects required additional improvements within the existing system. Table 6-11 summarizes the location, size, and length of pipelines associated with each expansion project. As with the previous pipeline projects, these system expansions are assigned a numerical designation for the CIP such as P-201, P-202, etc.. This summary includes the main transmission pipelines only and not the smaller distribution pipelines. Many smaller distribution pipes were modeled, however, to ensure adequate service in peripheral areas.

Many of the pipeline extensions will allow the integration of existing private water systems into the City's water distribution network. In general, the incorporation of private systems does not present any problems. However, the Williams Crossing private system in southern Pressure Zone 2 includes some pipelines that extend beyond the upper elevation limit for that zone. House connections at these higher elevations will likely require auxiliary pumping.

Table 6-11. Summary of Pipeline Network Expansion Projects for UGB Build-Out

Expansion Project Location	Pipeline Project Number	Developer Participation	Pipe Size, inches	Pipe Length, feet	Project Timing
Redwood Avenue Extension	P-201	No	16	2,660	2000-05
Redwood Avenue Looping North	P-202	Yes	12	12,250	2000-05
Redwood Avenue Looping South	P-203	Yes	12 8	8,480 1,250	2000-05
Rogue Community College Extension	P-204	No	16 12	2,310 2,200	2000-05
Allen Creek Connector	P-205	No	20	5,300	2000-05
Reservoir No.12 Extension	P-206	No	20	2,920	2010-20
Williams Highway Extension	P-207	Yes	12	5,830	2000-05
Williams Highway Looping	P-208	Yes	12	11,270	2005-10
Reservoir No. 17 Extension	P-209	No	16	700	2010-20
West Harbeck Road Connector	P-210	No	12	2,750	2000-05
G.I. Lane Extension	P-211	Yes	8	1,540	2000-05
Pedestrian Bridge Connector	P-212	No	12	3,050	2000-05
Canal Lane Looping	P-213	Yes	8	880	2005-10
Rogue River Highway Extension:	P-214	No	12 8	4,690 1,240	2005-10
Fruitdale Drive Extension	P-215	No	12	5,770	2010-20
Cloverlawn Loop	P-216	Yes	12 8	2,130 5,510	2010-20
Reservoir No. 10 Extension	P-217	No	20	1,120	Post 2020
Cloverlawn to Crestview Loop Extension:	P-218	Yes	12 8	5,460 1,920	2010-20
Reservoir No. 16 Extension	P-219	No	16	1,300	2010-20
Southeast N St. Extension	P-220	Yes	12	4,000	2000-05
Shannon Ln Extension	P-221	Yes	12	1,840	2000-05
Lincoln Road Extension	P-222	Yes	12	5,190	2000-05
Ament Road Extension	P-223	No	12	5,690	2000-05
Starlite Connector	P-224	No	12	2,500	2000-05
Starlite Extension	P-225	Yes	12	3,830	2005-10
Greenfield Road Loop	P-226	Yes	12	9,170	2010-20
Valley View Rd	P-227	Yes	12	940	2000-05
Laurelridge Development	P-228	Yes	8	4,460	2000-05
Reservoir No. 14 Extension	P-229	No	16	490	2010-20

The extension of a pipeline from Valley View Dr. to Starlite (P-224) will complete connection of Pressure Zone 3 areas in northern Grants Pass. With this connection, the City may consider taking the Starlite pump station out of service and relying on the Champion pump station to serve all of Pressure Zone 3.

Developers in Grants Pass are required to cover the basic costs for extending the water system to their property. Therefore, many of the system expansion projects will require developer participation. This participation typically involves financial contributions to cover the cost of an eight-inch distribution pipeline. In the event that a larger diameter pipeline is necessary for purposes of allowing water transmission to more distant parts of the system, the City will pay the difference between the larger diameter and an eight-inch line. For each pipeline network expansion project identified in Table 6-11, the participation of developers in pipeline financing is noted.

Although pipeline expansions into areas outside of the existing UGB are not formally considered in this plan, the model was used to confirm the potential of serving adjacent portions of the Redwood District, Allen Creek, and Spalding areas that are considered candidates for future UGB expansions. The pipeline network within the existing UGB is adequately sized to allow significant expansion into these adjacent areas.

Pipeline Replacement

The Grants Pass water distribution system contains approximately 28,000 feet of two-inch pipe and 10,000 feet of four-inch pipe. These small, old lines tend to create problems with service pressures and fire flows in some areas due to excessive head losses. Therefore, the City should maintain an ongoing program of annual pipeline replacement to improve service in these areas. The small diameter lines should be targeted for replacement within the 20 year planning period of this study. Since many small diameter pipelines will be replaced as part of projects designed to solve existing system deficiencies, the replacement program included in the CIP will not formally begin until the year 2005. At that time, the CIP will budget sufficient funds to replace 2,500 feet of small diameter pipeline per year.

CHAPTER 7

COST OF RECOMMENDED CAPITAL IMPROVEMENT PROGRAM

CHAPTER 7

COST OF RECOMMENDED CAPITAL IMPROVEMENT PROGRAM

Based on the evaluation of existing system performance and future expansion requirements presented in Chapter 6, this chapter integrates the projects into a staged Capital Improvement Program (CIP). Specific improvements are identified for each of the first five years of the CIP and for the full build-out of the City's service area. For each of the recommended projects, this chapter also presents cost estimates based on the unit construction costs identified below.

UNIT CONSTRUCTION COSTS

This section presents the basis for cost estimates including the unit construction costs that are used to estimate the cost of recommended water system facility improvements. The unit costs are for construction only and do not include cost estimates for land acquisition, contingencies, engineering, legal costs, environmental, inspections and/or contract administration. These additional costs are added to the unit construction costs as a percentage mark-up to provide the City with a budgetary estimate of the total project capital cost for each proposed improvement.

These unit costs are representative of the construction cost of water system facilities under normal construction conditions. Estimation of construction costs for facilities to be constructed in areas requiring rock excavation, special foundation considerations or other special conditions should be developed based on specific unit cost data matching the expected conditions or requirements.

The unit costs were developed based on cost data supplied by manufacturers, published cost data and cost information from previous projects. All construction costs have been adjusted to reflect a year 2000 price level using the Construction Cost Index published by the Engineering News-Record (ENR). The estimated ENR index for September 2000 is 6,300. These cost data can be adjusted to reflect past or future construction costs by multiplying by the ratio of the past/future ENR to the base ENR of 6,300.

Construction cost data presented in this chapter are not intended to represent the lowest prices in the industry for each type of construction, but rather to be representative of average or typical construction costs. They are order-of-magnitude cost estimates with an expected accuracy of +50 percent to –30 percent to reflect the variability of costs according to the time of year that the work is bid, level of competition within the local economic environment, and future changes in the cost of labor and materials. As planning level unit costs, they are intended for guidance in evaluating various options and for budgetary purposes only within the context of this master planning effort.

Pipelines

Unit costs for cement-mortar lined ductile iron water mains 6- through 36-inches in diameter are provided in Table 7-1. These costs include pipe materials, trenching, placing and jointing pipe, valves, thrust blocks, fittings, hydrants, placing imported pipe bedding, and native backfill material. The table includes costs for both new construction and pipe installations requiring asphalt pavement replacement. Asphalt replacement will be included in all cost estimates unless the proposed pipeline alignment will clearly cross unpaved ground. The cost for new or reconnected service lines from the pipeline to the property line, for average suburban residential development densities, is included in the costs for pipelines up to 18-inches in diameter. Service connection costs are not included for larger diameter pipelines which serve primarily as transmission lines. Unit costs increase if rock excavation is necessary, typically adding 50 to 200 percent or more to the baseline installation cost. The cost for any proposed pipelines within known rocky areas will be increased by a factor of 2.

Table 7-1. Construction Costs for Water Mains

Pipeline Diameter, inches	Construction Cost[a,b], Dollars Per Lineal Foot New Construction	Construction Cost Including Pavement Replacement
8	49	62
10	56	69
12	69	80
14	72	89
16	76	96
18	80	104
20	89	113
24	106	126
30	138	173
36	177	217

[a]Costs based on the 20-city average ENR CCI of 6,300.
[b]Costs do not include engineering, overhead, and contingency.

Treated Water Storage Tanks

Unit costs were developed for the construction of water storage tanks in the size ranges of 0.5, 1, 2, and 5 million gallons (MG). Table 7-2 lists the estimated construction cost for a ground-level pre-stressed concrete storage tank. As previously stated, these costs represent construction under normal excavation and foundation conditions and would be significantly higher for special or difficult foundation requirements. In addition to these construction costs, an allowance of $100,000 is included for land acquisition at each tank site.

Table 7-2. Construction Costs for Storage Reservoirs

Tank Volume, million gallons[a]	Construction Cost[b] Concrete Reservoirs, $1,000[c,d]
0.5	525
1	719
2	1,080
5	2,048

[a]Costs for volumes not shown may be interpolated.
[b]Costs do not include engineering, overhead, and contingency.
[c]Costs based on the 20-city average ENR CCI of 6,300.
[d]Costs are based on prestressed concrete tank design.

Distribution Pumping Plants

Distribution pumping station costs vary considerably, depending on such factors as architectural design, pumping head, and station capacity. Estimated average construction costs for distribution pumping stations, as shown in Table 7-3, are based on enclosed stations with architectural and landscaping treatment suitable for residential areas. Pumping station cost estimates include allowances for a standby pumping unit and auxiliary engine-generator sets.

Table 7-3. Construction Costs for Distribution Pumping Stations

Pumping Station Capacity, mgd[a]	Construction Cost[b], $1,000[c]
1	150
2	181
5	263
10	368

[a]Costs for capacities not shown may be interpolated.
[b]Costs do not include engineering, overhead, and contingency.
[c]Costs based on the 20-city average ENR CCI of 6,300.

Engineering Markups and Contingencies

Engineering services associated with new facilities include preliminary investigations and reports, site and route surveys, foundation explorations, preparation of drawings and specifications, construction services, surveying and staking, sampling of testing material, and start-up services. For this study, engineering costs are assumed to be 10 percent of the construction cost estimates after construction contingencies have been applied.

There are also program implementation costs which cover such items as legal fees, financing expenses, administrative costs, and interest during construction. The cost of these items can also

vary, but for the purpose of this study, it is assumed that these charges will equal approximately 5 percent of the construction costs after construction contingencies have been applied.

Construction Management covers such items as contract management and inspection during construction. The cost of these items can also vary, but for the purpose of this study, it is assumed that construction management charges will equal approximately 10 percent of the construction costs after construction contingencies have been applied.

It is also appropriate to allow for uncertainties unavoidably associated with the preliminary layout of projects. Such factors as unexpected construction conditions, the need for unforeseen mechanical items, and variations in final quantities are a few of the items that can increase project costs for which it is wise to make allowances in preliminary estimates. An allowance of 20 percent of the base construction cost was included to cover such contingencies.

Based on these factors, the total cost of all necessary engineering services, construction management, contingencies and program implementation is 45 percent of the base construction costs for each project. This factor is applied to the construction cost to estimate the total capital cost.

COST OF PROPOSED IMPROVEMENTS

Based on the unit costs and methodology described above, this section summarizes the estimated costs associated with each CIP project. The projects are divided into four categories according to their anticipated timing:

- Year 2000 to 2005
- Year 2005 to 2010
- Year 2010 to 2020
- Post 2020

The post 2020 CIP projects represent the long term phase of projects that will take place between the year 2020 and full service area build-out. All of the CIP projects are displayed along with the existing water distribution system on the system map enclosed in Appendix 3.

Summary of CIP Projects

Tables 7-4 through 7-7 summarize the capital costs for each project in the set of recommended improvements according to their anticipated timing. These CIP projects are intended to satisfy the system improvement and expansion requirements through build-out of the City's urban growth boundary. After the first improvement period, an allowance is also included for the annual replacement of 2,500 feet of small pipelines. The reported capital costs account for developer participation in the financing of some system expansions. The estimated capital costs for pipelines are shown in greater detail in Appendix 4.

Table 7-4. Estimated Capital Costs for CIP Projects Period 2000 – 2005

Recommended Improvements	Capital Cost, $1,000
Pump Stations	
Hilltop/Harbeck Heights Fire Pumps	60
Meadow Wood Pump Station	255
Laurelridge Pump Station	245
Rogue Community College Pump Sta.	245
Subtotal	805
Pipelines	
Pressure zone boundary modifications	100
Pressure reduction valves	130
P-101 West Harbeck to Allen Creek	54
P-102 Ringuette St	129
P-103 Leonard St Looping	40
P-104 Lower River Road	149
P-105 Prospect Ave Looping	54
P-106 Hawthorne to Crescent	748
P-107 9^{th} to 10^{th} at Midland	122
P-108 Sherman Ln to Tokay Heights	227
P-109 Marion Ln	115
P-110 C St to D St Loop	49
P-111 Hamilton Ln Looping	134
P-112 Agness to Gladiola	119
P-113 Bridge to Brownell	431
P-114 Lincoln Rd Looping	83
P-115 10^{th} and Savage Tie-In	7
P-201 Redwood Ave Extension	370
P-202 Redwood Ave Looping North	319
P-203 Redwood Ave Looping South	221
P-204 Rogue Community College Ext	577
P-205 Allen Creek Connector	869
P-207 Williams Hwy Extension	152
P-210 West Harbeck Rd Connector	318
P-212 Pedestrian Bridge Connector	353
P-220 Southeast N St Extension	113
P-221 Shannon Ln Extension	48
P-222 Lincoln Rd Extension	103
P-223 Ament Rd Extension	660
P-224 Starlite Connector	290
P-227 Valley View Rd	25
Subtotal	7,109
Total	7,914

Table 7-5. Estimated Capital Costs for CIP Projects Period 2005 – 2010

Recommended Improvements	Capital Cost, $1,000
Pipelines	
P-208 Williams Hwy Looping	294
P-214 Rogue River Hwy Extension	655
P-225 Starlite Extension	100
Subtotal	1,049
Pipeline Replacement	
12,500 feet total replacement	1,124
Subtotal	1,124
Total	2,173

Table 7-6. Estimated Capital Costs for CIP Projects Period 2010 - 2020

Recommended Improvements	Capital Cost, $1,000
Treated Water Storage	
Reservoir No. 12	1,710
Reservoir No. 14	850
Reservoir No. 16	960
Reservoir No. 17	1,350
Reservoir No. 13 (replacement)	850
Subtotal	5,720
Pipelines	
P-206 Reservoir No. 12 Extension	479
P-209 Reservoir No. 17 Extension	97
P-215 Fruitdale Dr Extension	780
P-216 Cloverlawn Loop	56
P-218 Cloverlawn to Crestview Loop	142
P-219 Reservoir No. 16 Extension	181
P-226 Greenfield Rd Loop	239
P-229 Reservoir No. 14 Extension	68
Subtotal	2,042
Pipeline Replacement	
25,000 feet total replacement	2,248
Subtotal	2,248
Total	10,010

Table 7-7. Estimated Capital Costs for CIP Projects
Period Post 2020

Recommended Improvements	Capital Cost, $1,000
Treated Water Storage	
Reservoir No. 10	1,560
Subtotal	1,560
Pump Stations	
Treatment Plant Pumps	400
Subtotal	400
Pipelines	
P-217 Reservoir No. 10 Extension	184
Subtotal	184
Total	2,144

APPENDIX 1

UNIFORM FIRE CODE

Division III
FIRE PROTECTION
APPENDIX III-A

FIRE-FLOW REQUIREMENTS FOR BUILDINGS

(See UFC Section 903.3)

SECTION 1 — SCOPE

The procedure determining fire-flow requirements for buildings or portions of buildings hereafter constructed shall be in accordance with Appendix III-A. Appendix III-A does not apply to structures other than buildings.

SECTION 2 — DEFINITIONS

For the purpose of Appendix III-A certain terms are defined as follows:

FIRE AREA is the floor area, in square feet, used to determine the required fire flow.

FIRE FLOW is the flow rate of a water supply, measured at 20 psi (137.9 kPa) residual pressure, that is available for firefighting.

SECTION 3 — MODIFICATIONS

3.1 **Decreases.** Fire-flow requirements may be modified downward by the chief for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical.

3.2 **Increases.** Fire flow may be modified upward by the chief where conditions indicate an unusual susceptibility to group fires or conflagrations. An upward modification shall not be more than twice that required for the building under consideration.

SECTION 4 — FIRE AREA

4.1 **General.** The fire area shall be the total floor area of all floor levels within the exterior walls, and under the horizontal projections of the roof of a building, except as modified in Section 4.

4.2 **Area Separation.** Portions of buildings which are separated by one or more four-hour area separation walls constructed in accordance with the Building Code, without openings and provided with a 30-inch (762 mm) parapet are allowed to be considered as separate fire areas.

4.3 **Type I and Type II-F.R. Construction.** The fire area of buildings constructed of Type I and Type II-F.R. construction shall be the area of the three largest successive floors.

SECTION 5 — FIRE-FLOW REQUIREMENTS FOR BUILDINGS

5.1 **One- and Two-Family Dwellings.** The minimum fire flow and flow duration requirements for one- and two-family dwellings having a fire area which does not exceed 3,600 square feet (344.5 m^2) shall be 1,000 gallons per minute (3785.4 L/min.). Fire flow and flow duration for dwellings having a fire area in excess of 3,600 square feet (344.5 m^2) shall not be less than that specified in Table A-III-A-1.

> EXCEPTION: A reduction in required fire flow of 50 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system.

5.2 **Buildings other than One- and Two-Family Dwellings.** The minimum fire flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table A-III-A-1.

> EXCEPTION: A reduction in required fire flow of up to 75 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system. The resulting fire flow shall not be less than 1,500 gallons per minute (5677.5 L/min.).

TABLE A-III-A-1—MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS

FIRE AREA (square feet) × 0.0929 for m²					FIRE FLOW (gallons per minute)[2] × 3.785 for L/min.	FLOW DURATION (hours)
Type I-F.R. II-F.R.[1]	Type II One-HR. III One-HR.[1]	Type IV-H.T. V-One-HR.[1]	Type II-N III-N[1]	Type V-N[1]		
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	2
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	3
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	4
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4,500	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5,000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5,250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5,500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5,750	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	6,000	
"	"	115,801-125,500	83,701-90,600	51,501-55,700	6,250	
"	"	125,501-135,500	90,601-97,900	55,701-60,200	6,500	
"	"	135,501-145,800	97,901-106,800	60,201-64,800	6,750	
"	"	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
"	"	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
"	"	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
"	"	179,401-191,400	129,601-138,300	79,801-85,100	7,750	
"	"	191,401-Greater	138,301-Greater	85,101-Greater	8,000	

[1]Types of construction are based upon the Building Code.
[2]Measured at 20 psi (137.9 kPa). See Appendix III-A, Section 2.

TOTAL P.02

APPENDIX 2

CITY COUNCIL RESOLUTION

RESOLUTION NO. 3964

A RESOLUTION OF THE COUNCIL OF THE CITY OF GRANTS PASS ADOPTING STANDARDS FOR WATER BOOSTER STATIONS.

WHEREAS:

1. The City of Grants Pass Utilities Department has developed a generic standard for municipal water system booster stations that will be needed to serve isolated subdivisions; and

2. As development continues within the Urbanizing Area, we expect to see increased utilization of hillsides for home-building which will require pressure booster stations to provide adequate domestic and fire flow capacity; and

3. The Water Distribution Master Plan does not address small pressure districts/ booster stations that will be required for the development of subdivisions that are physically isolated; and

4. It is the goal of Water Utility to achieve optimum reliability, performance and cost-effectiveness of the booster stations that will be required to serve small pressure zones.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Grants Pass that the standards for small booster stations be adopted.

ADOPTED by the Council of the City of Grants Pass, Oregon, in regular session this 7th day of October, 1998.

SUBMITTED to and approved by the Mayor of the City of Grants Pass, Oregon, this 9th day of October, 1998.

Gordon D. Carlson DDS
Mayor

ATTEST:

Joanne M. Stumpf
Administrative Services Director

10/9/98
Date

STANDARDS FOR THE INSTALLATION OF SMALL BOOSTER STATIONS

Two options for water supply to individual subdivisions built at elevations too high to be served by adjoining municipal water system pressure zones are:

OPTION # 1 — Booster Pumps WITHOUT Elevated Storage

- Provide range of pump sizes for serving all usage levels:
  - Minimum off-hours demands
  - Maximum hot-weather demands
  - Fire flow demands
    - 1,000 g.p.m. for neighborhood with homes <3,600 sq. ft.
    - 1,500 g.p.m. for area of homes >3,600 sq. ft.

  Provide redundant pump arrangement for fire flows
- Use variable frequency drive (VFD) motors for fire flow pumps and larger service pumps
- Provide captive air pressure tank(s) to minimize pressure surges and frequency of pump on/off cycling
- Provide Emergency Power by permanently installed electrical generator powered by internal combustion engine
  - Sized to allow operation of all booster pumps in combination
  - Recommended fuels are natural gas or propane*
    * (Propane tank capacity sufficient for more than 6 hours operation)

OPTION # 2 — Booster Pumps WITH Elevated Storage

- Provide captive air pressure tank(s) to minimize pressure surges; recommend use of variable frequency drive (VFD) motors
- Multiple pumps (combination depends upon delivery requirements)
  - To provide redundancy, and
  - Sized to accommodate hot-weather usage
- Elevated Storage Facility
  - Altitude sufficient to provide minimum pressure of 30 psi (minimum operating level of tank at least 70 ft above highest point of distribution system)
  - Volume calculation:
    - Fire protection storage — volume sufficient to provide fire flow for minimum of two (2) hours
      * 1,000 g.p.m. for neighborhood with homes <3,600 sq. ft.
      * 1,500 g.p.m. for area with homes >3,600 sq. ft.
    - Equalizing storage — approximately 25% of the maximum daily demand
    - Reserve storage — approximately 75% of the maximum daily demand

- **Site-specific Requirements:** There will be requirements for each individual development which are not delineated in the two options shown above. These will include, but aren't limited to, the following:
  - Pump station location, equipment construction and performance specifications
  - Reservoir location and construction specifications
  - Design of structure to house the pump station
  - Maintenance access and site plan requirements for a "public facility" located in a subdivision
  - Engineering design, State and City approval of plans before the pump station is built
  - Developer/City agreement on installation and testing
  - Warranty requirements

Item: Resolution adopting standards for water booster stations

Date: October 7, 1998

RECOMMENDED ACTION:

It is recommended the standards be adopted.

PROCEDURE:

Follow procedure for a Resolution.

BACKGROUND:

Development continues to occur in the hillsides within and around the City. Often, these hillside homes require pressure booster stations to provide adequate domestic and fire flow capacity. The Water Distribution Master Plan does not address small pressure districts / booster stations that will be needed for development.

The booster stations must be able to provide adequate pressure for home use as well as fire flow. The stations should also provide reliability so a malfunctioning pump does not disrupt service. City reviewed the potential requirements for the use of booster stations with the goals of reliability, performance and costs effectiveness.

The proposed standard provides two options for the developer. The first option is the use of booster pumps without elevated storage. This would require the provision of emergency power to ensure water supply for occasional power outages. The second option is the booster pumps with elevated storage.

These standards allow the develop to fully understand the choices ahead of time. If the booster station must be sized to serve more than the single development, the City can offer developer assistance funding on a first-come-first-served basis.

ITEM: 2.c. RESOLUTION ADOPTING A GENERIC STANDARD FOR WATER BOOSTER STATIONS

RELATIONSHIP TO COUNCIL GOALS:

APPENDIX 3

SYSTEM MAP

APPENDIX 4

ESTIMATED CAPITAL COSTS OF PIPELINES

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
W. Harbeck to Allen Creek	P-101	1258	1259	8	600	62	37,200	54,000
					600		37,200	54,000
Ringuette St	P-102	1450	1245	12	625	80	50,000	73,000
		1452	1013	12	483	80	38,640	56,000
					1,108		88,640	129,000
Leonard St Looping	P-103	1157	1107	8	440	62	27,280	40,000
					440		27,280	40,000
Lower River Rd	P-104	1191	1416	8	670	62	41,540	60,000
		1416	1463	8	986	62	61,132	89,000
					1,656		102,672	149,000
Prospect Ave Looping	P-105	2500	2524	8	605	62	37,510	54,000
					605		37,510	54,000
Hawthorne to Crescent Dr	P-106	2011	2373	12	618	80	49,440	72,000
		2373	2353	12	1,270	80	101,600	147,000
		2353	2355	12	883	80	70,640	102,000
		2355	2374	12	2,205	80	176,400	256,000
		2374	2030	12	1,052	80	84,160	122,000
		2030	2366	8	543	62	33,666	49,000
					6,571		515,906	748,000
9th to 10th at Midland	P-107	2054	2041	8	1,352	62	83,824	122,000
					1,352		83,824	122,000
Sherman Ln to Tokay Heights	P-108	2385	2386	12	1,082	80	86,560	126,000
		2386	2387	12	877	80	70,160	102,000
					1,959		156,720	227,000
Marion Lane	P-109	1013	1241	8	1,284	62	79,608	115,000
					1,284		79,608	115,000
C St to D St Loop	P-110	1377	1132	8	550	62	34,100	49,000
					550		34,100	49,000
Hamilton Lane Looping	P-111	1559	1560	12	1,152	80	92,160	134,000
					1,152		92,160	134,000
Agness to Gladiola Extension	P-112	1564	1451	12	1,028	80	82,240	119,000
					1,028		82,240	119,000

*Unit costs account for developer participation in project financing.

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
Bridge to Brownell Connector	P-113	1039	1177	12	3,713	80	297,040	431,000
					3,713		297,040	431,000
Lincoln Rd Looping	P-114	1524	1179	12	714	80	57,120	83,000
					714		57,120	83,000
10th and Savage Tie-In	P-115	2036	2375	12	57	80	4,560	7,000
					57		4,560	7,000
Redwood Ave Extension	P-201	1504	1439	16	967	96	92,832	135,000
		1439	1488	16	561	96	53,856	78,000
		1488	1440	16	1,127	96	108,192	157,000
					2,655		254,880	370,000
Redwood Ave Looping North	P-202*	1437	1464	12	1,267	18	22,806	33,000
		1466	1467	12	497	18	8,946	13,000
		1467	1468	12	1,299	18	23,382	34,000
		1468	1469	12	1,317	18	23,706	34,000
		1469	1470	12	1,001	18	18,018	26,000
		1470	1471	12	507	18	9,126	13,000
		1471	1472	12	569	18	10,242	15,000
		1472	1491	12	342	18	6,156	9,000
		1491	1473	12	233	18	4,194	6,000
		1473	1474	12	1,459	18	26,262	38,000
		1474	1492	12	784	18	14,112	20,000
		1492	1440	12	376	18	6,768	10,000
		1504	1469	12	2,602	18	46,836	68,000
					12,253		220,554	319,000
Redwood Ave Looping South	P-203*	1437	1533	12	1,253	18	22,554	33,000
		1533	1557	12	2,682	18	48,276	70,000
		1557	1442	12	2,711	18	48,798	71,000
		1504	1502	12	801	18	14,418	21,000
		1502	1500	12	582	18	10,476	15,000
		1500	1577	12	453	18	8,154	12,000
		1497	1498	8	1,250	0	0	0
					9,732		152,676	221,000

*Unit costs account for developer participation in project financing.

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
RCC Extension	P-204	1440	1441	16	1,350	96	129,600	188,000
		1441	1475	16	719	96	69,024	100,000
		1475	1442	16	244	96	23,424	34,000
		1442	2369	12	2,200	80	176,000	255,000
					4,513		398,048	577,000
Allen Creek Connector	P-205	1315	1259	20	2,935	113	331,655	481,000
		1259	1320	20	659	113	74,467	108,000
		1320	1453	20	1,708	113	193,004	280,000
					5,302		599,126	869,000
Reservoir No. 12 Extension	P-206	1442	T-12	20	2,923	113	330,299	479,000
					2,923		330,299	479,000
Williams Hwy Extension	P-207*	2085	2178	12	1,076	18	19,368	28,000
		2178	2179	12	1,756	18	31,608	46,000
		2179	2177	12	455	18	8,190	12,000
		2177	2176	12	1,682	18	30,276	44,000
		2176	2175	12	863	18	15,534	23,000
					5,832		104,976	152,000
Williams Hwy Looping	P-208*	2086	2164	12	648	18	11,664	17,000
		2164	2166	12	710	18	12,780	19,000
		2166	2181	12	704	18	12,672	18,000
		2181	2182	12	681	18	12,258	18,000
		2182	2183	12	913	18	16,434	24,000
		2183	2170	12	490	18	8,820	13,000
		2170	2171	12	1,743	18	31,374	45,000
		2171	2172	12	655	18	11,790	17,000
		2172	2173	12	1,009	18	18,162	26,000
		2173	2184	12	659	18	11,862	17,000
		2184	2185	12	1,048	18	18,864	27,000
		2185	2174	12	721	18	12,978	19,000
		2174	2175	12	1,291	18	23,238	34,000
					11,272		202,896	294,000

*Unit costs account for developer participation in project financing.

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
Reservoir No. 17 Extension	P-209	2184	T-17	16	697	96	66,912	97,000
					697		66,912	97,000
W. Harbeck Rd Looping	P-210	1330	1318	12	2,745	80	219,600	318,000
					2,745		219,600	318,000
GI Lane Extension	P-211*	1328	1384	8	1,543	0	0	0
					1,543		0	0
Pedestrian Bridge Connector	P-212	1231	1436	12	439	80	35,120	51,000
		1436	1435	12	1,169	80	93,520	136,000
		1435	1245	12	1,437	80	114,960	167,000
					3,045		243,600	353,000
Canal Lane*	P-213	1295	1276	8	884	0	0	0
					884		0	0
Rogue River Hwy Extension	P-214	1385	1559	12	2,057	80	164,560	239,000
		1559	1447	12	1,407	80	112,560	163,000
		1447	1448	12	1,227	80	98,160	142,000
		1448	1449	8	1,236	62	76,632	111,000
					5,927		451,912	655,000
Fruitdale Extension	P-215	1334	1560	16	1,126	96	108,096	157,000
		1560	1518	16	2,489	96	238,944	346,000
		1518	1558	16	260	96	24,960	36,000
		1558	1561	16	872	96	83,712	121,000
		1558	1448	12	1,027	80	82,160	119,000
					5,774		537,872	780,000
Cloverlawn Loop	P-216*	1334	1512	12	991	18	17,838	26,000
		1512	1513	12	1,140	18	20,520	30,000
		1513	1514	8	849	0	0	0
		1514	1515	8	1,271	0	0	0
		1515	1516	8	759	0	0	0
		1516	1517	8	1,030	0	0	0
		1517	1518	8	1,599	0	0	0
					7,639		38,358	56,000

*Unit costs account for developer participation in project financing.

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
Reservoir No. 10 Extension	P-217	1561	T-10	20	1,124	113	127,012	184,000
					1,124		127,012	184,000
Cloverlawn to Crestview	P-218*	2274	2299	12	738	18	13,284	19,000
		2299	2298	12	424	18	7,632	11,000
		2298	2297	12	706	18	12,708	18,000
		2297	2280	8	955	0	0	0
		2297	2300	12	479	18	8,622	13,000
		2300	2301	12	837	18	15,066	22,000
		2301	2302	12	1,104	18	19,872	29,000
		2302	2306	12	738	18	13,284	19,000
		2306	2305	12	433	18	7,794	11,000
		2306	2304	8	963	0	0	0
					7,377		98,262	142,000
Reservoir No. 16 Extension	P-219	2299	T-16	16	1,298	96	124,608	181,000
					1,298		124,608	181,000
Southeast 'N' St Extension	P-220*	1366	1451	12	1,291	18	23,238	34,000
		1564	1565	12	1,965	18	35,370	51,000
		1565	1510	12	1,074	18	19,332	28,000
					4,330		77,940	113,000
Shannon Ln Extension	P-221*	1368	1565	12	1,835	18	33,030	48,000
					1,835		33,030	48,000
Lincoln Rd Extension	P-222*	1524	1183	12	669	18	12,042	17,000
		1183	1523	12	775	18	13,950	20,000
		1523	1522	12	384	18	6,912	10,000
		1522	1521	12	818	18	14,724	21,000
		1521	1520	8	1,255	0	0	0
		1521	1157	12	1,292	18	23,256	34,000
					5,193		70,884	103,000
Ament Rd. Extension	P-223	2387	2388	12	525	80	42,000	61,000
		2388	1102	12	338	80	27,040	39,000
		1102	1142	12	1,444	80	115,520	168,000
		1142	2378	12	1,167	80	93,360	135,000

*Unit costs account for developer participation in project financing.

Appendix 4 - Estimated Capital Costs of Pipelines

Project Vicinity	Pipeline Project Number	Node From	Node To	Pipe Size, inches	Pipe Length, feet	Const. Cost/ft, $	Total Const. Cost, $	Total Capital Cost, $
		2378	2379	12	1,459	80	116,720	169,000
		2379	2380	12	760	80	60,800	88,000
					5,693		455,440	660,000
Starlite Connector	P-224	2067	3059	12	2,499	80	199,920	290,000
					2,499		199,920	290,000
Starlite Extension	P-225*	3059	3075	12	765	18	13,770	20,000
		3075	3076	12	1,639	18	29,502	43,000
		3076	3077	12	1,428	18	25,704	37,000
					3,832		68,976	100,000
Greenfield Loop	P-226*	3039	3078	12	1,435	18	25,830	37,000
		3078	3079	12	1,099	18	19,782	29,000
		3079	3080	12	658	18	11,844	17,000
		3080	3081	12	1,536	18	27,648	40,000
		3081	3082	12	1,157	18	20,826	30,000
		3082	3083	12	1,188	18	21,384	31,000
		3083	3084	12	1,340	18	24,120	35,000
		3084	3071	12	753	18	13,554	20,000
					9,166		164,988	239,000
Valley View Rd	P-227*	3028	2067	12	939	18	16,902	25,000
					939		16,902	25,000
Laurelridge Development	P-228*	4030	4026	8	765	0	0	0
		4026	4025	8	576	0	0	0
		4025	3060	8	1,526	0	0	0
		4026	4027	8	757	0	0	0
		4026	4028	8	778	0	0	0
		4028	4029	8	835	0	0	0
					5,237		0	0
Reservoir No. 14 Extension	P-229	4027	T-14	16	488	96	46,848	68,000
					488		46,848	68,000

*Unit costs account for developer participation in project financing.

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WATER RESOURCES DEPT

RESOLUTION NO. 3356

A RESOLUTION OF THE COUNCIL OF THE CITY OF GRANTS PASS AMENDING RESOLUTION NO. 1587 AND RESOLUTION NO. 1618 TO ESTABLISH FEES, RATES AND CHARGES FOR UTILITY SERVICES, PURSUANT TO ORDINANCE NO. 4352.

WHEREAS:

1. The City desires to maintain or improve services to its customers; and

2. Repairs must be made to protect the community's investment by stabilizing the north bank of the Rogue River; and

3. Rates should be adjusted to reflect the cost of service.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Grants Pass that water rates be increased as authorized by Council, and Resolution No. 1587 be amended by deleting Section 12(A)(1), and Resolution No. 1618 be amended by deleting Section 12(A)(3) and adding new Sections 12((A)(1) and 12(A)(3). Those Sections to read as follows:

Section 12(A)(1) Class A-1 service (inside the City limits)

(Minimum Charge)

Meter Size Inches	Minimum Charge Per Month
3/4 or less	$ 12.30
1	32.25
1-1/2	72.25
2	128.00
3	288.60
4	504.60
6	1,135.40
8	2,018.50
10	3,153.90
12	4,541.60

(Commodity Charge)

Quantity in Cubic Feet	Commodity Charge Per 100 Cu. Ft. Above 500 Cu. Ft.
501 and up	$ 0.87 Single Family Res.
	0.55 Multi-Family Res.
	0.57 Commercial/Indust.
	0.71 Public

Service Level Charges	
Service Level #1	- $0.00
Service Level #2	- $0.08
Service Level #3	- $0.16
Service Level #4	- $0.24
Service Level #5	- $0.32

Section 12(A)(3) Schedule of Minimum Charges per month for standby fire protection service.

Size of Service Charge (in inches)	Minimum Per Month
2	$ 5.00
3	11.45
4	20.15
6	45.35
8	80.60
10	126.00
12	181.40

This Resolution shall be effective as of the 4th day of March, 1993.

ADOPTED by the Council of the City of Grants Pass, Oregon, in regular session this 3rd day of March, 1993.

SUBMITTED to and approved by the Mayor of the City of Grants Pass, Oregon, this 8th day of March, 1993.

Gordon A. Anderson
Mayor

ATTEST:

Joanne M. Stumpf
Finance Director

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SALEM, OR

Aug 08 02 01:48p Eric Wade (541) 479-6765 p.4

For your convenience

The Equalizer Payment Plan lets you pay an average amount all year long, which is helpful for people who travel or are on a budget.

The program has three criteria: you must have had water service for at least 12 months, year-round service at the address and a good payment record. Owners and tenants, residential and commercial customers are eligible.

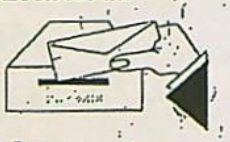
Here's how the program works: The city Finance Office calculates your annual cost of water, based on the previous year's usage. That amount is divided into 11 equal monthly payments.

Twelve months after you sign up, the city either owes you money because you used less water than your average, or you owe the city because you used more. Your budget payment amount may be adjusted at this time.

For more information, or an application, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

Save a stamp

When paying your water bill, you can save a stamp or gasoline by using one of the 11 utility pay stations located at businesses around town. Look for the boxes at:

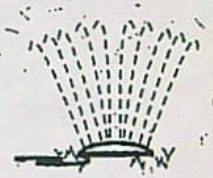


- Fred Meyer
- Albertsons
- Pacific Power
- Evergreen Federal Savings & Loan
- Family Bank of Commerce
- Valley of the Rogue Bank
- Southern Oregon Federal Credit Union
- U.S. National Bank
- Western Bank
- First Interstate Bank, 1701 NE 6th St. and Williams Highway branches.

Conservation tips

1. Check every faucet and toilet for leaks.

2. Take shorter showers and shallow baths.
3. Turn off the water while scraping dishes, brushing teeth or washing hands.
4. Keep a jug of drinking water in the refrigerator.
5. Don't use the toilet as a trash can to flush away tissues, gum wrappers, etc.
6. Fill the dishwasher and clothes washer to capacity.
7. Use a broom, not a hose, to clean the driveway.
8. Use a bucket of water to wash the car and a hose to rinse it off.
9. Water the lawn, not the sidewalk or the street.
10. In summer, water lawns and gardens before 10 a.m. to lessen evaporation.



More information

If you would like more information about the new rates or your Water Utility, please call City Administration at 474-6360, or the Utility Department at 474-6355, between 8 a.m. and 5 p.m. Monday-Friday.

For billing questions, call the Finance Office at 474-6365 between 10 a.m. and 5 p.m. Monday-Friday.

For after-hours water emergencies, call 474-6370.

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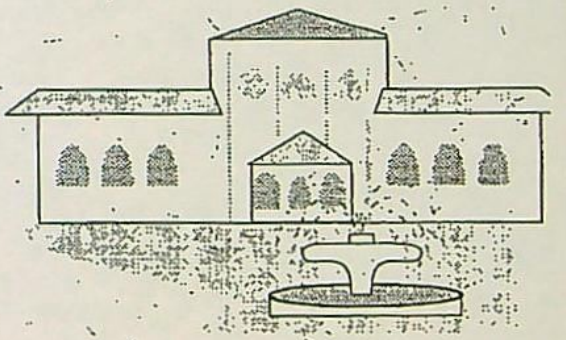
Important Information About Your Water Rates



City of
Grants Pass

P.5 (541) 479-6765 Eric Wade Aug 08 02 01:48p

Water rates change

Last fall, the Grants Pass City Council began studying the Water Utility's rates to determine how to pay for rising costs. In December, the Council held a public hearing on three rate-increase proposals prepared by city staff. After listening to residents who testified at the hearing, the Council directed the staff to come up with other alternatives. In February, the Council held another hearing to consider the new proposals, including a bond issue. On March 3, the Council approved a 12 percent, across-the-board increase in water rates.

Why the increase

Water rates have not changed since 1983. The Water Utility has controlled expenses by increasing automation, contracting services and postponing maintenance. But rising costs, more expensive water quality testing, and needed repairs were due to push expenses beyond income. To avoid a deficit or reduction in services, the City Council authorized a rate increase.

What your money buys

The new rates will allow your Water Utility to *continue* to provide:

- High quality water, meeting all state and federal water quality standards, at a low cost (1 cent buys 10 gallons of water).

- Adequate water flow for fire protection. The city's excellent fire-insurance rating lowers insurance premiums for homeowners and businesses.

- Exceptional customer service through service-line, small-main, and meter replacement programs.

- Investment in the system, including repairs to the riverbank at the Water Filtration Plant, which is eroding.

How to read your bill

Your water bill is a combination of up to four different charges:

- The **minimum monthly charge** is for the first 500 cubic feet (3,740 gal.) of water, based on the meter size (most residences have a 3/4-inch meter).
- For every 100 cubic feet (748 gal.) above the base amount, you pay a **commodity charge.**
- Service to customers at higher elevations is more costly because the water must be pumped uphill. Those customers pay an additional **service level charge** to offset pumping expenses.
- Businesses with a separate water line for their fire sprinkler systems pay a **standby fire protection** charge.

Bills prorated

The new rates began on March 4. The enclosed bill reflects both the old and new rates. The new rates apply only to that portion of the billing period after March 3.

The new rates

Minimum Monthly Charge
Includes first 500 cubic feet of water

Meter size	Amount
3/4 inch or less	$12.30
1 inch	32.25
1.5 inches	72.25
2 inch	128.00
3 inch	288.60
4 inch	504.60

Commodity Charge
Per 100 cubic feet over 500 cf

Customer class	Amount
Single family residence	$0.87
Multi-Family residence	0.55
Commercial/Industrial	0.57
Public	0.71

Service Level Charge
Monthly, based on elevation

Level	Amount
1	$0.00
2	0.08
3	0.16
4	0.24
5	0.32

Standby Fire Protection
Monthly, per size of line

Line size	Amount
2 inch	$ 5.00
3 inch	11.45
4 inch	20.15
6 inch	45.35
8 inch	80.60
10 inch	126.00
12 inch	181.40

Sample water bill at new rates

CITY OF
GRANTS PASS
101 N.W. "A" Street
Grants Pass, Oregon 97526
(503) 474-6365

4/26/93

METER NUMBER	SERVICE FROM	SERVICE TO	READINGS PREVIOUS	READINGS CURRENT	100 CU. FT. USED	DESCRIPTION	AMOUNT/CHARGE
W2717	03/18/93	04/18/93	677	683	6	WATER-RESIDENT	13.25

MINIMUM CHARGE (500 CU FT MAX) 12.30
COMMODITY RATE OVER 500 CU FT .87/100 CU FT
LEVEL 2 RATE OVER 500 CU FT .08/100 CU FT

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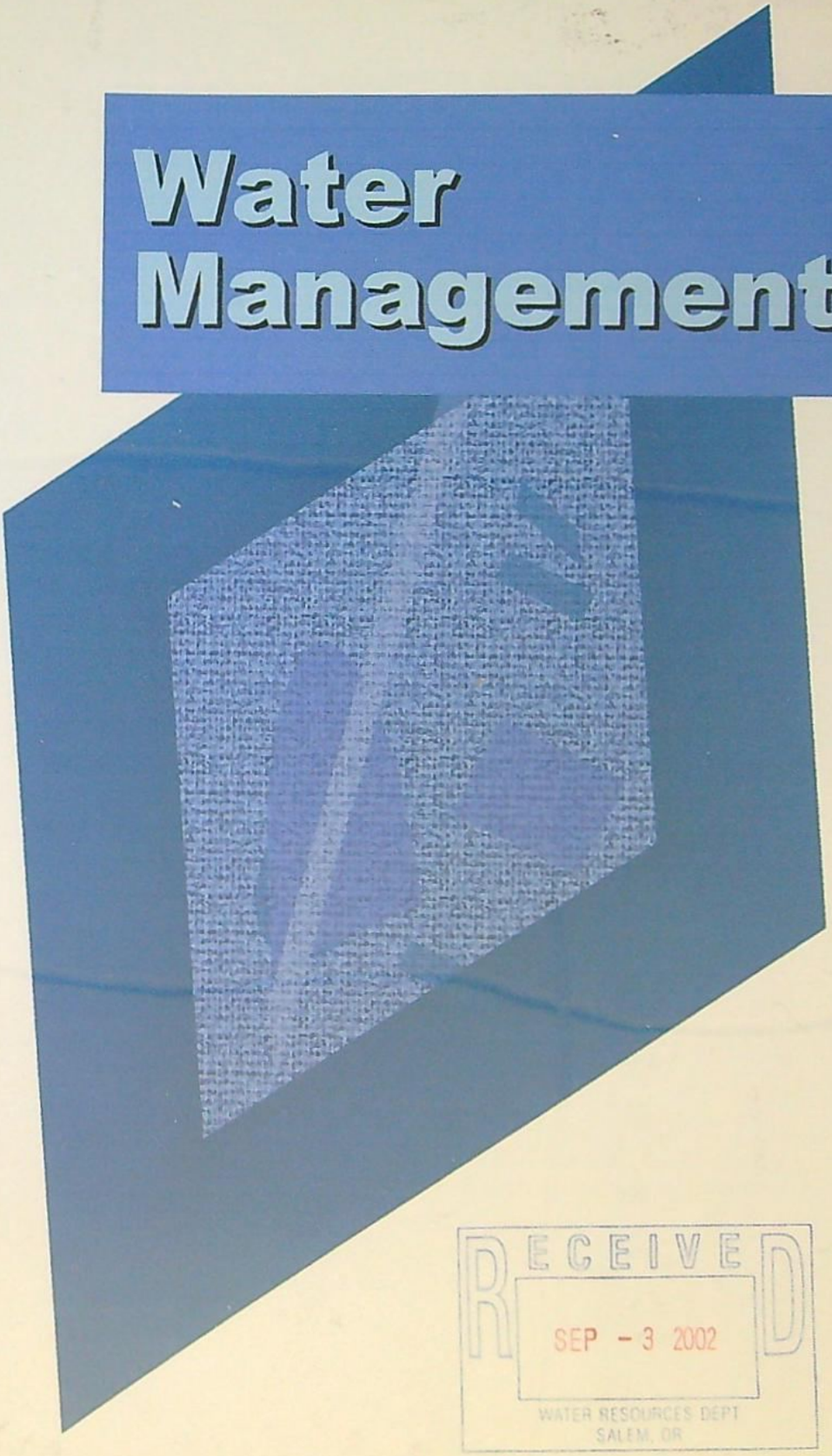
101 NW A ST
1026-001700 004314-01

BUDGET PLAN MONTHLY	ARREARS	TOTAL DUE	PAY THIS AMOUNT
			13.25

CITY OF GRANTS PASS

Water Management Plan



WEST YOST & ASSOCIATES

Consulting Engineers

June 2002

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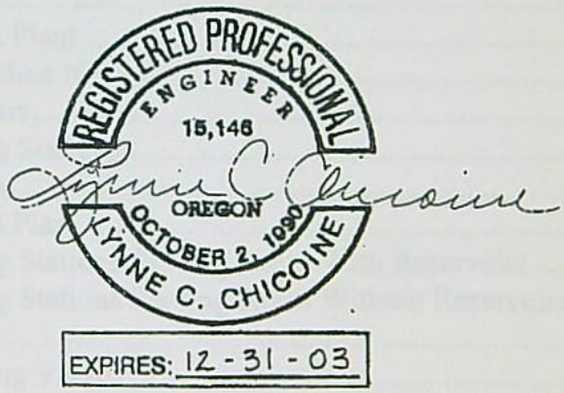
CITY OF GRANTS PASS

WATER MANAGEMENT PLAN

FINAL REPORT



Prepared by:

West Yost and Associates, LLC.
21920 Willamette Drive – Suite 3
West Linn, Oregon 97068

June 2002

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CHAPTER 1

EXECUTIVE SUMMARY

CHAPTER 1

EXECUTIVE SUMMARY

The purpose of the Water Management Plan is to identify and analyze the water supply and demand issues facing the City of Grants Pass, develop a reasonable approach to resolving the issues, and serve as a guide for City water management policies. This plan was developed in accordance with Oregon Water Resources Department guidelines and contains a comprehensive discussion of the existing water distribution system, current and future development of water demand, existing and potential water conservation measures, water curtailment strategies, implementation schedules, and long range water supply issues.

EXISTING WATER SYSTEM

The City of Grants Pass gets its drinking water from the Rogue River. The Rogue River has historically provided a plentiful supply for the City and even at its lowest flows has sufficient flow for the City's current demand. Grants Pass holds four water rights on the river, totaling 87.5 cfs (56 mgd). One right for 12.5 cfs (8 mgd) is perfected.

The City's water system consists of a water treatment plant, eleven booster pumping stations, eight reservoirs, and an extensive water distribution system with over 130 miles of pipeline. Due to the extent of the distribution system and the highly varied local topography, the service area contains seven separate pressure zones. The overall water system is limited by the capacity of the water treatment plant, which is rated at 18 mgd.

WATER DEMAND

The water system serves the residents of Grants Pass with a current population of 23,170 and surrounding developing areas. Table 1-1 shows current water demand.

Table 1-1. Current Water Demand

Condition	Current Water Demand, mgd
Average Annual	4.5
Maximum Month	8
Maximum Day	10

A comparison of water sold to water produced shows that the system has an excellent delivery record. The unaccounted-for water rate was limited to 10.9 percent in calendar year 2000. A breakdown of water demand by customer categories is shown in Table 1-2.

Table 1-2. Water Demand by Customer Category

Customer Category	Percentage
Commercial	36
Multi-Family	16
Single Family	48
Total	100

WATER CONSERVATION MEASURES

The State requires in a Water Management Plan that the City examine the feasibility of six types of water conservation measures (WCMs 1-6) and that the City provide an implementation schedule for an additional six types of measures (WCMs 7-12). Grants Pass has a number of conservation programs in place and an analysis of potential additional conservation programs was performed. A list of measures was screened based on a list of criteria including projected water savings, cost, political feasibility and legal constraints, consistency with community values, and environmental impacts. From this process, six favored programs emerged and a detailed cost-benefit analysis was performed. Of these programs, five were recommended for implementation. Table 1-3 summarizes existing and recommended conservation programs.

Table 1-3. Grants Pass Water Conservation Measures

WCM	Program Description	Status
1	Leak reporting program	Existing
2	Low water use demonstration garden	Recommended (2002)
3	SDCs based on meter size Separate indoor and outdoor metering	Existing Existing
4	Enforces state building code regulations Distribute plumbing kits	Existing Recommended (2003)
5	Inverted block water rates	Recommended (2001)
6	Non potable water used at WWTP	Existing
7	Annual system accounting	Existing
8	Fully metered system	Existing
9	Visual leak inspection Customer tracking to spot leaks	Existing Existing
10	Random meter testing Customer tracking to spot dead meters Commercial meter replacement program	Existing Existing Existing
11	Pamphlet distribution, city newsletter Low water use demonstration garden	Existing Recommended (2002)
12	Bulk water dispensing station and fire hydrant flow meters Additional bulk water dispensing stations Water waste prohibition	Existing Recommended (2001) Recommended (2001)

WATER CURTAILMENT MEASURES

The City has not experienced any supply deficiencies within the last 10 years, but the potential exists for service interruption in the event of a supply contamination, treatment plant difficulties, transmission or pumping problems or prolonged drought. The City has in place a water curtailment ordinance; however, in compliance with OAR 690-086, the ordinance will be repealed and replaced with an ordinance that clearly defines three levels of water shortage alerts and contains specific water curtailment measures to be implemented at each level of alert. The citizens of Grants Pass will be well served to have in place a curtailment plan that defines levels of water shortage severity and mechanisms for dealing with the situation. Table 1-4 lists water shortage alert levels, operational triggers, and curtailment measure implementation requirements. Chapter 5 outlines specific curtailment measures for each alert level.

Table 1-4. Water Shortage Alert Levels, Triggers, and Curtailment Measure Implementation Requirements

Alert Level	Description	Trigger	Curtailment Measure Implementation
One	Potential Water Supply Shortage	A serious drought condition is occurring or is likely to occur in the region or Rogue River flow rates are measured or projected to be below a 1-in-10 year low flow level, or the County or State has declared a drought condition.	Voluntary
Two	Water Supply Shortage	The City's ability to deliver water is not adequate to meet demand due to supply, treatment, storage, or pumping restrictions, or extended treatment plant operation is required and storage cannot be maintained.	Mandatory
Three	Critical Water Supply Shortage	Supply is interrupted	Mandatory

LONG RANGE SUPPLY

Future demand requirements were developed using land use demand factors and zoning information. The rate of development for the area was estimated to continue at 2.8 percent. Peaking factors were developed using historical water use data. Resulting future water demand requirements are shown in Table 1-5.

Table 1-5. Future Water Demand Requirements

Year	Average Demand, mgd	Maximum Day Demand, mgd
2010	6.1	13
2020	8.1	18
Build-out	9.5	21

Generally, the Rogue River provides an ample and reliable water supply for future water needs as Grants Pass expands within the urban growth boundary. It is important to note, however, that there are special factors such as the listing of salmon as an endangered species and long-term climate change that may impact the future ability of the river to maintain its reliable yield. These factors bear watching but at this time are ill defined, so it is difficult to quantify their potential effect.

CHAPTER 2

EXISTING WATER SYSTEM

CHAPTER 2

EXISTING WATER SYSTEM

SOURCE OF WATER

Source Availability and Reliability

The source of supply for the City of Grants Pass is surface water from the Rogue River. The Rogue River drains a large watershed extending from the Pacific Ocean to the crest of the Cascade Mountains. Grants Pass is located at approximately River Mile 100 and there are approximately 2,460 square miles of watershed area upstream of the City. As a result of this extensive drainage area, the Rogue River is a plentiful and reliable source of drinking water for the community.

The U.S. Geological Survey (USGS) maintains a river gaging station near the Grants Pass water treatment plant that provides extensive historical data on the flow characteristics of the Rogue River. Since the Lost Creek Reservoir storage reservoir was constructed upstream of Grants Pass in 1977 to regulate flow, USGS statistical data for the river are typically based on records from 1978 to present. Based on USGS data for this station, Table 2-1 presents the average, maximum, and minimum monthly flow rates for the Rogue River. Since construction of Lost Creek Reservoir, the lowest daily average flow at Grants Pass was 744 cubic feet per second (cfs) on October 10, 1994, and the lowest seven-day average flow was 799 cfs during the week of September 22, 1994. In general, dry weather flows are maintained by the combination of snow melt from the Cascades in the early summer and the release of stored water from Lost Creek Reservoir in the late summer.

Table 2-1. Rogue River Average Monthly Flows at Grants Pass
USGS Data for the 20-Year Period 1978 to 1997

Month	Average Monthly Flow, cfs	Maximum Monthly Flow, cfs	Minimum Monthly Flow, cfs
January	4,684	16,600	1,575
February	4,556	10,960	1,641
March	4,034	8,119	1,099
April	4,002	6,843	1,211
May	3,607	5,910	1,857
June	2,709	4,572	1,549
July	2,146	3,127	1,059
August	2,164	3,080	1,620
September	1,840	2,642	1,333
October	1,499	2,282	1,008
November	2,670	7,669	1,160
December	5,251	17,620	1,557

Long-Term Reliable Yield

Due to the nature of the City's surface water supply source, the long-term sustainability of drinking water supplies for Grants Pass is generally good. As noted earlier, the large size of the watershed drained by the Rogue River typically provides abundant water supplies throughout the year. Even during extreme dry weather periods when river flows are at their lowest, the reliable flow rate in the Rogue River is approximately 750 cfs or nearly fifty times larger than the highest drinking water demand ever experienced in Grants Pass. There are some special circumstances, which may affect the long-term reliable yield for the Rogue River. For example, the listing of the Coho Salmon as an endangered species in the Rogue River may influence operational procedures at the Lost Creek Reservoir, which in turn may affect dry weather flow levels. Another issue is related to climate change and snow pack levels in the Cascade Range. Any reduction in average precipitation or the average snow pack will tend to reduce dry weather flow rates in the Rogue River. Since these factors are complex in nature, it is difficult to quantify their potential effect on the river's reliable yield at this time.

Water Rights

The City of Grants Pass has water rights for the withdrawal of 87.5 cfs from the Rogue River. Table 2-2 summarizes the details related to these water rights. Documentation for the water rights is included in Appendix A.

Table 2-2. Grants Pass Water Rights

Permit Number	Priority Date	Permitted Use	Permitted Rate, cfs	Available Quantity, cfs	Source Availability Analysis		
					Reliability	Impact of ESA	Water Quality
D15839 Cert # 7	1888	Municipal/ Irrigation	12.5		High	Undefined	Good
S26901	1960	Municipal	25.0	735[a]	High	Undefined	Good
S45827	1965	Municipal	25.0		High	Undefined	Good
S47346	1983	Municipal	25.0		High	Undefined	Good

[a]Restriction that water can be diverted only when flow at the mouth of the Rogue exceeds 735 cfs.

Intergovernmental Agreements

The City has no system interties that would provide additional water supply.

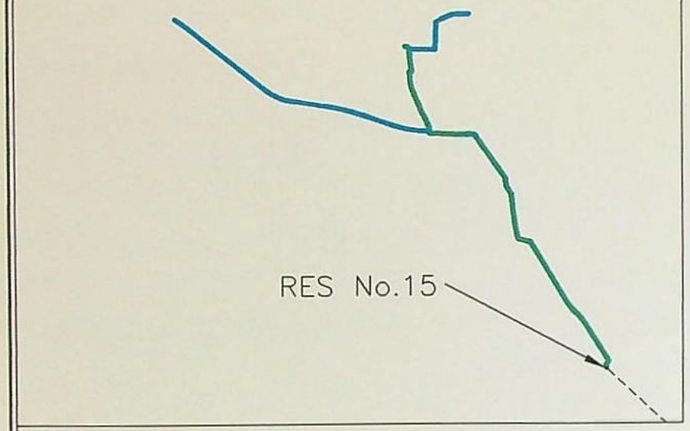
SYSTEM CAPACITY, LIMITATIONS, AND OPPORTUNITIES FOR EXPANSION UNDER EXISTING WATER RIGHTS

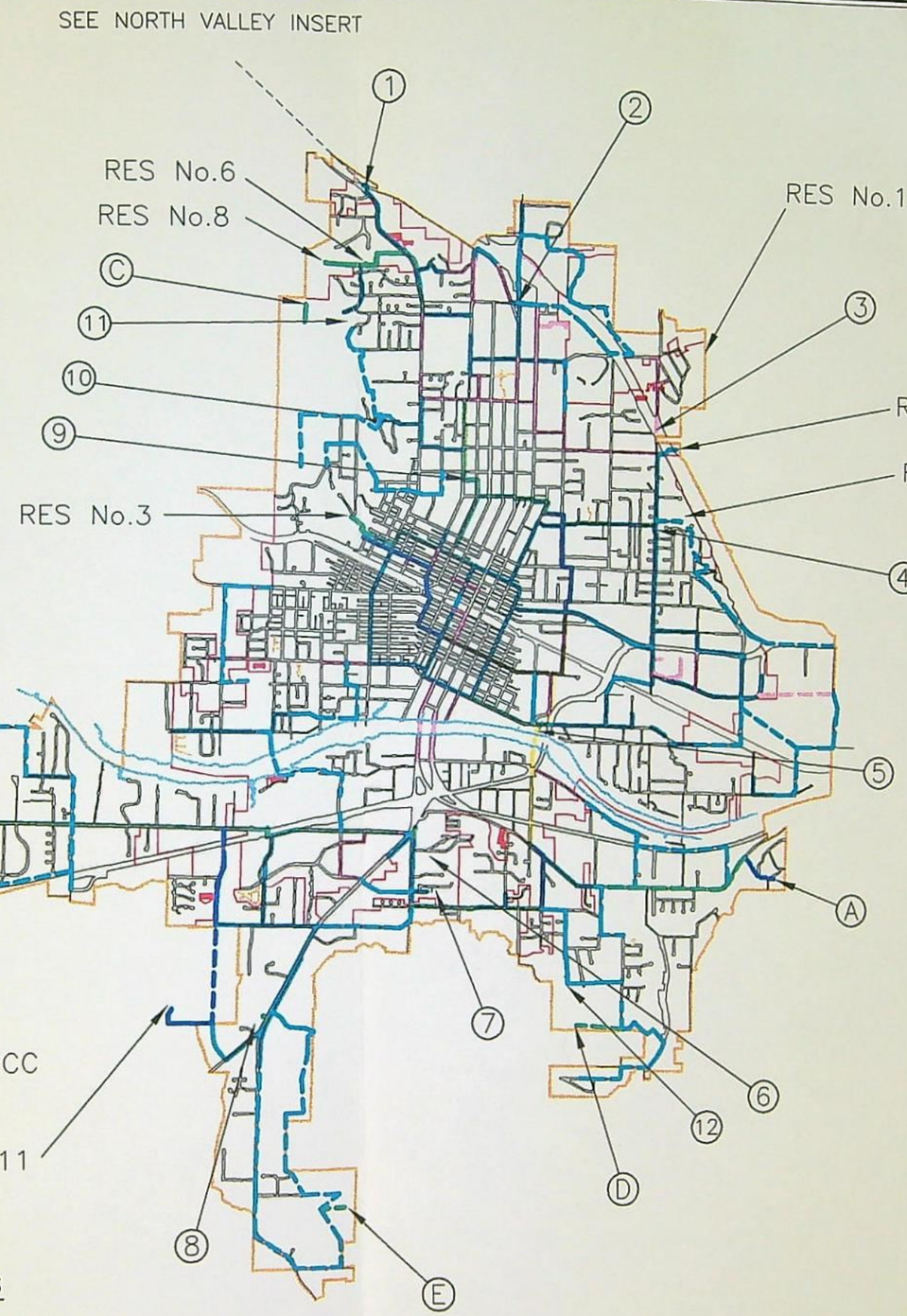
The Grants Pass water supply system currently distributes water to developed properties covering an area of more than 3,500 acres and serves a population of 23,170 within the City limits and several hundred outside the City limits in Harbeck-Fruitdale, Redwood, and North Valley. The overall system is composed of a water treatment plant, twelve booster pumping stations, eight reservoirs, two pressure reducing valves, and six altitude valves. Figure 2-1

FIGURE 2-1

CITY OF GRANTS PASS

FUTURE
WATER DISTRICTION SYSTEM





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0 2000 4000
SCALE IN FEET

NOTES:

LEGEND:

- FUTURE PIPELINE
- CITY LIMITS
- UGB
- 10"
- 12"
- 14"
- 16"
- 20"
- 24"
- 30"
- 36"

EXISTING PUMP STATIONS

1. NORTH VALLEY/HIGHLAND
2. CHAMPION
3. HEFLEY
4. MADRONE
5. WATER TREATMENT PLANT
6. HILLTOP
7. HARBECK HEIGHTS
8. NEW HOPE
9. LAWNRIDGE
10. STARLITE

FUTURE PUMP STATIONS

11. LAURELRIDGE
12. MEADOW WOOD
13. RCC

FUTURE RESERVOIRS

- A RES No.10
- B RES No.12
- C RES No.14
- D RES No.16
- E RES No.17

WEST YOST & ASSOCIATES

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illustrates the configuration of the Grants Pass water distribution system. The figure depicts all water distribution piping twelve inches in diameter and larger and shows future piping improvements recommended in the 2000 Water Master Plan including extension of service to the urban growth boundary and pipeline looping.

Water Treatment Plant

The City draws water from the Rogue River with a pumping station located next to the water treatment plant. The treatment plant was originally constructed in 1930 and has undergone many renovations over the years. The most recent plant expansion was completed in 1983, bringing the total rated plant capacity to 18 million gallons per day (mgd). Influent pumps deliver river water to the plant where the treatment process includes coagulation and sedimentation of suspended solids, filtration, and chlorination for disinfection prior to pumping into the distribution system.

Distribution Pipeline Network

The Grants Pass water distribution pipeline network consists of approximately 130 miles of existing pipeline. Table 2-3 details the water distribution system according to pipeline length and diameter. These pipelines are made of cast iron or ductile iron and range in age up to approximately 80 years.

Table 2-3. Water Distribution System Pipeline Network

Pipe Size, inches	Length, miles
2	5.23
4	1.80
6	40.89
8	43.63
10	7.64
12	19.49
14	0.38
16	7.88
20	2.40
24	1.02
30	0.95
36	0.01
Total	131.32

The urban growth boundary for the City of Grants Pass encompasses lands of wide ranging elevations. As a result, the water distribution pipeline network contains seven separate service pressure zones. Table 2-4 summarizes the service elevations and static pressure range for each pressure zone. The lower end of the pressure range is based on reservoirs at 80 percent full and the upper end is based on full reservoirs. At this time, there are properties receiving City water service in each of the pressure zones except Zone 5.

Table 2-4. Pressure Zone Ranges

Zone	Elevation, feet	Pressure, psi
1	900 – 1,020	36 – 90
2	1,020 – 1,140	41 – 95
2A	960 – 1,035	61 – 94
3	1,140 – 1,280	36 – 100
4	1,280 – 1,420	42 – 104
5	1,420 – 1,560	41 – 104
NV	995 – 1,165	101 – 177

In some areas, the pressure zone boundaries are modified slightly from these elevation ranges in order to accommodate special service pressure requirements. Pressure Zone 2A is a hybrid between Zones 1 and 2. The North Valley service area is actually a hybrid between Zones 1, 2, and 3, serving properties between the elevations of 995 feet and 1,165 feet. Due to the great range of elevations served in the North Valley, this pressure zone requires pressure reduction valves at service connections to maintain appropriate service pressures.

Storage Reservoirs

There are eight treated water storage reservoirs within the Grants Pass water distribution system that provide a total of 19 million gallons of treated water storage. These reservoirs were constructed between the years 1946 and 1999. Design information for these reservoirs is detailed in Table 2-5.

Table 2-5. Storage Reservoirs

Reservoir Location	Reservoir Number	Pressure Zone Served	Year Built	Construction Materials	Capacity, Mg	Bottom Elevation, feet	Overflow Elevation, feet
500 Block Woodson Dr.	3	1	1946	Concrete	3.5	1,089.5	1,108.5
1500 Block Ridge Rd.	4	2	1953	Concrete	0.75	1,216	1,240
1400 Block Sherman Ln.	5	1	1983	Concrete	3.5	1,079.5	1,108.5
2200 Block Crown St.	6	2	1982	Concrete	3.5	1,211	1,240
Heiglen Loop Rd.	8	3	1983	Concrete	2.0	1,341	1,370
1420 Denton Trail	11	1	1999	Concrete	4.5	1,080.1	1,108.5
1700 Block Sunset Ln.	13	4	1980	Concrete	0.08	1,510	1,520
3900 Block Highland Ave.	15	5	1985	Concrete	1.2	1,374	1,403

Booster Pumping Stations

The water distribution system includes the water treatment plant pumps and nine booster pumping stations that transfer water to the higher pressure zones. These pump stations either fill the reservoirs that serve these higher pressure zones or pump to maintain a minimum pressure in those areas that are not served by reservoirs. Table 2-6 details the technical information for each of the system's pumping stations.

WATER SYSTEM OPERATION

Water Treatment Plant

The water treatment plant operates as necessary to fill storage reservoirs in the distribution system on a daily basis. Therefore, the operating schedule varies with seasonal variations in water demand. During the winter months, the plant generally operates seven days per week for an eight hour period. Operational hours are extended during the high demand summer months, when the plant must operate up to twelve hours daily in order to keep the storage reservoirs full.

Booster Pumping Stations Serving Areas With Reservoirs

Those booster pumping stations that fill storage reservoirs are automatically controlled to maintain preset water levels. When sensors show that the water level in a reservoir has fallen below a preset threshold, the lead pump will activate and begin filling the reservoir to a high water level. If water demand on the reservoir is such that a single pump cannot maintain the water level, a lag pump (or pumps) will activate as necessary until the reservoir fills to a high water level.

Booster Pumping Stations Serving Areas Without Reservoirs

Booster pumping stations that serve areas without storage reservoirs are automatically controlled to maintain a minimum discharge pressure at the pumping stations. When pressure sensors show that the discharge pressure has fallen below a preset threshold, the lead pump activates and pumps until the discharge pressure exceeds a high pressure level. If water demand in the pump station's service area is such that a single pump cannot maintain the pressure level, a lag pump (or pumps) activates until the system pressure is restored.

Reservoirs

Reservoirs in the water distribution system are generally maintained between 80 and 100 percent full. This fluctuating volume represents the operating storage. The remaining storage is allocated to providing fire flow requirements and emergency reserves. In the case of Reservoir No. 15 in the North Valley, water levels are maintained at a much lower level due to limited demand in that portion of the distribution system.

Altitude valves control the flow into and out of Reservoirs Nos. 3, 4, 5, 6, 11, and 15. These valves are designed to close when the reservoir is full and open when the system pressure drops. The other reservoirs in the distribution system float on the system.

Table 2-6. Existing Booster Pumping Stations

Pumping Station Name	Pressure Zone Served	Reservoirs Served	Number of Pumps	Pump Motor Size and Speed, hp/rpm	Capacity of Each Pump, gpm	Rated Discharge Head, feet
Treatment Plant	1	No. 3 No. 5 No. 11	5	300/1,775 300/1,775 250/1,760 250/1,760 200/1,750	3,500 3,500 3,500 3,500 2,600	220 220 210 210 210
Lawnridge	2	No. 6 No. 4	4	25/1,750 50/1,750 50/1,750 100/1,750	400 1,000 1,000 2,000	120 120 120 148
Madrone	2	No. 4 No. 6	3	60/1,750 401,750 301,750	2,000 1,200 900	170 170 170
New Hope	2	--	4	30/3,600 30/3,600 30/3,600 150/1,800	350 350 350 2,000	212 212 212 200
Meadow Wood	2	--	4	5/3,500 15/3,600 60/3,600 60/3,600	50 150 500 500	240 155 275 275
Harbeck Heights	2	--	3	5/3,600 5/3,600 50/3,600	90 90 1,200	100 100 125
Hilltop	2	--	3	5/3,600 7.5/3,600 40/3,600	100 150 750	120 120 120
Champion	3	No. 8	3	50/1,750 150/1,750 100/1,750	800 2,300 1,600	165 165 165
Starlite	3	--	4	15/3,500 30/1,760 60/1,760 30/1,760	60 450 1,050 450	185 185 185 185
Hefley	4	No. 13	4	7.5/3,500 15/3,500 60/3,500 60/3,500	40 120 600 600	250 250 300 300
Laurelridge	4	--	3	15/3,500 15/3,500 75/3,500	300 300 1,000	150 150 162
North Valley	NV	No. 15	3	7.5/3,500 30/3,500 30/3,500	70 500 500	170 174 174

Pressure Reducing Valves

There are two pressure reducing valve stations in the Grants Pass water distribution system. These stations control the flow of water from Pressure Zone 2 to Pressure Zone 2A. Pressure Zone 2A extends to slightly lower elevations than Pressure Zone 2 and thus requires some pressure reduction. Each station contains a single 6-inch pressure reducing valve

Supervisory Control and Data Acquisition (SCADA) System

The City upgraded the water distribution system SCADA system in 1999. The SCADA system monitors reservoir levels, pump operating status, and local pressures throughout the system. The central computer system for the human-machine interface is located at the water treatment plant.

SYSTEM CAPACITY LIMITATIONS

The capacity of the Grants Pass water system is dependent on three components: the supply source, permitted water rights, and the water supply infrastructure. The limitations of each of these components are discussed in the following sections.

Rogue River Supply Capacity

As noted earlier, the large size of the watershed drained by the Rogue River typically provides abundant water supplies throughout the year. Even during extreme dry weather periods when river flows are at their lowest, the reliable flow rate in the Rogue River far exceeds present and projected future water demands. Identified, but undefined factors such as the listing of Coho Salmon under the Endangered Species Act may impact the amount of water available to the City in the future.

Permitted Water Rights

The water rights currently held by the City are sufficient for present and future water needs. The City holds a perfected water right of 12.5 cfs and three water right permits totaling 87.5 cfs.

Water Treatment Plant Capacity

The Grants Pass water treatment plant has a rated water treatment capacity of 18 mgd. However, the capacity of the plant is currently limited to 16 mgd by its firm pumping capacity. This limit is only relevant in the event one of the influent pumps is out of service. The available capacity is sufficient to meet current maximum day demand with at least an additional ten percent capacity available. The additional ten percent is necessary to allow for backwashing filters, meeting drinking water quality standards with difficult raw water, or repairing equipment failures.

The existing water treatment plant has ample capacity relative to current demand and will continue to be sufficient for the near term future. This situation allows the City to operate the water plant on a part-time basis even during the current water demand peaks in the summer. An extension of the plant operating hours will forestall the need for treatment capacity expansions. With extended operating hours and a two percent annual water demand growth rate, a plant

expansion will not become necessary until well after the year 2020. Table 2-7 summarizes the treatment plant capacity evaluation for current and build-out demand conditions.

Table 2-7. Water Treatment Plant Capacity Evaluation

Period	Maximum Day Demand, mgd	WTP Capacity Requirement, mgd	Existing WTP Capacity, mgd	Additional WTP Capacity Required. mgd
Current	10	11	18	None
UGB Build-Out	20	22	18	4

Treated Water Storage Capacity

The Grants Pass water distribution system includes eight treated water reservoirs serving five separate pressure zones. The treated water storage reservoirs serve three principal purposes: operational storage to meet diurnal fluctuations, emergency storage, and fire flow storage. The required storage volume for these three purposes is determined individually and then combined to identify the total amount of storage volume required within a given pressure zone and for the overall system. For added reliability, storage is located to allow gravity flow into the pressure zone where it is required. This arrangement eliminates the need for pumping facilities that require a backup power system during power outages. Storage located in higher pressure zones also benefits lower zones by providing a potential source of gravity supply through the addition of pressure reducing stations to the system. The City of Grants Pass maintains the following treated water storage standards for evaluating system capacity:

1. Operational storage equal to 45 percent of maximum day demand for current demand and part-time plant operation. Operational storage equal to 25 percent of maximum day demand for future demand and full-time plant operation.

2. Emergency storage equal to 75 percent of maximum day demand.

3. Fire flow storage based on the largest fire flow requirement in the pressure zone.

Table 2-8 summarizes the evaluation of treated water storage requirements for current demand conditions. The existing system contains an overall treated water storage capacity of 19 million gallons which is ample for overall current levels of demand. The significant volume of storage that is available in the system relative to maximum day demand provides ample operating storage, thus allowing the water treatment plant to effectively operate on a part-time basis without compromising emergency storage or fire flow storage supplies. Existing storage volumes are also sufficient for current demand on a zone-by-zone basis except in Pressure Zone 4 where only 80,000 gallons of storage volume is available. The existing available storage in North Valley is somewhat overstated since only approximately one third of the 1.2 million gallon storage volume available in Reservoir 15 is actually utilized due to limited demand in that portion of the system. Otherwise, the quality of water will degrade due to long-term storage.

Table 2-8. Treated Water Storage Evaluation

Pressure Zone	Current Max Day Demand, mgd	Required Operational Storage, mg	Required Emergency Storage, mg	Required Fire Flow Storage, mg	Required Total Storage, mg	Existing Available Storage, mg
1	7.0	3.2	5.3	0.96	9.4	11.5
2	2.1	0.9	1.6	0.96	3.5	4.3
3	0.6	0.3	0.5	0.24	1.0	2.0
4	0.2	0.1	0.2	0.18	0.5	0.1
NV	0.1	0.1	0.1	0.24	0.4	1.2
Total	10.1	4.5	7.6	2.6	14.7	19.0

Booster Pumping Capacity

There are eleven booster pumping stations in the Grants Pass water distribution system. The booster pumping facility criteria require that pumping stations are able to supply the maximum day demand within all dependent pressure zones over a 24 hour period. This criteria assumes that there is sufficient treated water storage within the pressure zone to meet the operational, emergency, and fire storage criteria and that the pumping station is equipped with a backup energy source of sufficient capacity to operate the pumping plant at its rated capacity. The rated capacity of a pumping station is based on the largest pump being out of service. However, for small pressure zones, the pump station is sized so that it can supply peak hour demand with one pump out of service and includes a redundant pump to meet fire flow requirements.

Based on these criteria, Table 2-9 summarizes the booster pumping capacity evaluation for the water distribution system with current demand levels. The water treatment plant pumping capacity is significantly higher than the system-wide maximum day demand, allowing the pumps to operate on a part-time basis. Table 2-9 includes the New Hope Pump Station, which was recently built to serve Zone 2 developments in the southwest. Although construction is complete, the existing connections to the system and associated demand are currently limited.

Table 2-9. Booster Pumping Capacity Evaluation

Pump Station	Current[a] Max Day Demand, mgd	Current[a] Max Day Demand, gpm	Existing Pumping Capacity, gpm
Plant[b]	10	6,940	11,100
Lawnridge & Madrone	3.1	2,150	4,500
Champion	1	690	2,400
North Valley	0.1	70	570
Hefley[c]	0.2	140	760
Starlite[d]	0.08	60	960
Hilltop[e]	0.04	30	250
Harbeck Heights[f]	0.04	30	180
New Hope[g]	NA	NA	1,050

[a]Peak hour demand is used for those stations that serve areas without reservoirs.
[b]Noted capacity is based on plant operator measurement of the firm capacity for the plant effluent pumps. The capacity of the plant influent pumps is 9,600 gpm with one pump out of service.
[c]The Hefley station has two fire flow pumps with a total capacity of 1,200 gpm.
[d]The Starlite station has a fire flow pump with a capacity of 1,050 gpm.
[e]The Hilltop station has a fire flow pump with a capacity of 750 gpm.
[f]The Harbeck station has a fire flow pump with a capacity of 1,200 gpm.
[g]The New Hope station has a fire flow pump with a capacity of 2,000 gpm.

CHAPTER 3

WATER DEMAND

CHAPTER 3

WATER DEMAND

This chapter presents historic water production and water demand data for the City of Grants Pass and provides a basis for estimating future water demand in the community. Additional analysis relates the various measures of water demand (maximum monthly demand, maximum daily demand, and peak hour demand) to the average annual demand through the use of peaking factors.

The projection of future water demand is based on unit demand factors developed by land use type and corresponding customer classifications. These future demand projections provide the basis for assessing the adequacy of the existing water distribution system and planning for future improvements.

POPULATION

The most recent population estimate for the City of Grants Pass is 23,170 according to the Year 2000 National Census report. The 1990 population was 17,503 indicating an annual growth rate of 2.8 percent during the 1990s. Table 3-1 presents the Grants Pass population for 1990 and each of the past six years. This significant increase between 1999 and 2000 is due to the more comprehensive counting techniques used for the 2000 census relative to the estimates prepared by Portland State University in intermediate years.

Table 3-1. Grants Pass Population

Year	Population
1990	17,503
1995	19,660
1996	20,255
1997	20,535
1998	20,590
1999	20,935
2000	23,170

The Population Research Center at Portland State University has observed that the counties of Southern Oregon in general have been experiencing substantial growth during the 1990s. Many communities along the Interstate 5 corridor, including Grants Pass, have experienced steady in-migration. This trend is expected to continue for Southern Oregon in the future.

EXISTING WATER USE

Average, Maximum Month and Maximum Day Use

The Grants Pass Water Treatment Plant operators record water production volumes for each day of operation. Analysis of this data allows for the identification of annual average, maximum month, and maximum day water demand. Table 3-2 presents water production data for the past six years.

Table 3-2. Average, Maximum Month, Maximum Day Water Use

Year	Average Day, mgd	Maximum Month, mgd	Maximum Day, mgd	Peaking Factors	
				Maximum Month	Maximum Day
1995	3.73	6.48	8.32	1.74	2.23
1996	4.11	7.22	9.09	1.76	2.21
1997	3.97	6.20	8.83	1.72	2.22
1998	4.17	7.62	9.47	1.83	2.27
1999	4.50	7.79	9.35	1.73	2.08
2000	4.45	7.82	9.73	1.76	2.18
Average	--	--	--	1.76	2.20

Per Capita Water Demand

Per capita demand is a useful measure of household consumption of water. Table 3-3 presents the population for Grants Pass along with the average annual demand during the past six years, which allows for calculation of the average demand in gallons per capita per day (gpcd). Ranging from 190 to 215, the average daily water demand is 200 gpcd. This figure does not take into account water users outside the city limits, for which data is not readily available. Inclusion of these numbers would slightly decrease the per capita usage rate.

Table 3-3. Grants Pass Water Use for 1995 to 2000, gpcd

Year	Population[a]	Average Demand, mgd	Average Demand[b], gpcd
1995	19,660	3.73	190
1996	20,255	4.11	203
1997	20,535	3.97	193
1998	20,590	4.17	203
1999	20,935	4.50	215
2000	23,170	4.45	191
Average	--	--	200

[a]Includes City of Grants Pass population only.
[b]Demands include all uses, including residential, commercial, industrial, public/institutional, and unaccounted for water.

Unaccounted for Water

All water distribution systems experience losses of water during transmission from the treatment plant to the end user. These losses, known as unaccounted for water, result from many situations including unmetered customers, transmission system leaks, main breaks, faulty meters, fire fighting activities, system flushing, and other miscellaneous hydrant uses. Thus, the total volume of water metered for all end users is always somewhat less than the volume of water produced at the water treatment plant.

Since the City of Grants Pass meters water use for all customers, a comparison of water billing records and water treatment plant production data provides a good estimate of the volume of unaccounted for water in the system. Table 3-4 shows the estimated volume of unaccounted for water in millions of gallons and also as a percentage of total production during the past three years. Based on industry standards, a water loss rate of 10 to 15 percent is considered good and the City's loss rate indicates that the distribution system is in good condition.

Table 3-4. Unaccounted for Water; 1998 -2000

Year	Million Gallons	Percent of Total Water Production
1998	146	9.6
1999	190	11.6
2000	177	10.9

DESCRIPTION OF CUSTOMERS SERVED

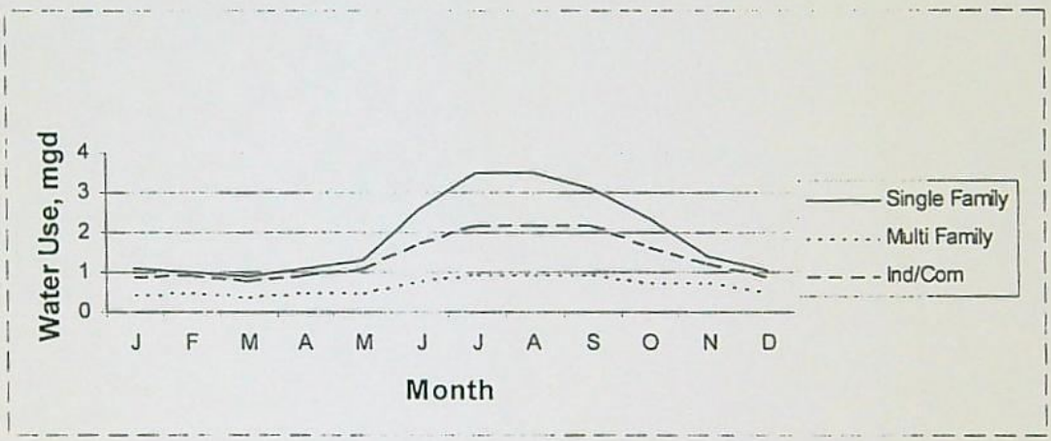
Water Demand by Customer Classification

Water demand related to customer class provides information as to the characteristics of water demand in the community and help to determine where conservation efforts would be most effective. Based on historical billing data provided by the City's Utilities Department for 1998 and 1999, Table 3-5 shows average water demand within three customer classifications: commercial, single family residential, and multi-family residential. There are 1000 commercial accounts, 3175 multi-family accounts and 6027 residential accounts. The commercial classification includes general business, industrial, institutional, and governmental-public land use categories. Single- and multi-family residential users consume 64 percent of the water in Grants Pass. The City serves a few industrial users each with consumptive water use comparable to commercial users. Seasonal demand for each of these three classifications is shown in Figure 3-1.

Table 3-5. Water Use by Customer Classification

	Demand (mgd)			
	Commercial	Multi-Family Residential	Single-Family Residential	Total
1998 Annual Average	1.36	0.61	1.80	3.77
1999 Annual Average	1.40	0.67	1.91	3.98
Average	1.38	0.64	1.86	3.88
Percent of Total Demand	36	16	48	100

Figure 3-1. Seasonal Water Use by Customer Classification*



* Based on 1999 records

Water Demand by Land Use

To develop a unit demand factor for the three different land use patterns, in Grants Pass, the water demand data presented in Table 3-5 is combined with estimated areas for each land use classification. The resulting demand by land use is shown in Table 3-6 and provides the basis for projecting future water demand.

Table 3-6. Unit Demand by Land Use

Land Use	1999 Average Demand[a], mgd	Land Use Area, Acres	Average Unit Demand, gal/acre day
Commercial/Industrial/Public	1.56	1,146	1,400
Multi-Family Residential	0.75	435	1,700
Single Family Residential	2.13	1,977	1,100

[a]The 1999 average demand is based on billing records plus an additional 11.6 percent to reflect unaccounted for water.

SYSTEM INTERCONNECTIONS

The City supplies water to two areas outside City boundary through agreements with Josephine County. Through the first agreement, the County constructed a 16-inch water line and reservoir (Reservoir 15) to serve North Valley. The City has exclusive operating rights to the system and will eventually assume ownership of the infrastructure. A copy of the agreement is included in Appendix B.

The City also supplies water to an urbanizing area known as Redwood, outside of the southwest City boundary. Under an agreement with the County, the City administers the planning process in the area. As the area develops, areas that are currently served by wells will be connected to the City water system. A copy of this agreement is included in Appendix C.

CHAPTER 4

WATER CONSERVATION MEASURES

CHAPTER 4

WATER CONSERVATION MEASURES

Conservation of resources, including water, is a value that is traditionally held by Oregonians. It is consistent with our respect for natural resources and our shared sense of environmental stewardship. In keeping with this philosophy and in accordance with OAR 690-086-0140, the City is considering feasibility and applicability of the following water conservation measures:

Table 4-1. Water Conservation Measures (WCM) To Be Considered

WCM	Description
1	A system-wide leak repair program or line replacement to reduce system leakage to 10 percent (since system leakage is less than 15 percent).
2	Programs to encourage low water use landscaping.
3	Incentive programs to encourage conservation.
4	Retrofitting or replacement of existing inefficient water-using fixtures.
5	Adoption of rate structures that support and encourage water conservation.
6	Water reuse opportunities.

Further, the City is required to develop an implementation schedule for the following conservation measures:

Table 4-2. Water Conservation Measures To Be Implemented

WCM	Description
7	An annual audit of all water supplied.
8	If the system is not fully metered, a program to install meters on all unmetered water service connections. The program must begin immediately after the plan is approved and must identify the number of meters to be installed each year with full metering compliance within five years.
9	A regularly scheduled program for leak detection for the transmission and distribution system.
10	A meter testing and maintenance program.
11	A public education program on efficient water use.
12	Any other conservation measures that would improve water use efficiency.

EXISTING CITY MEASURES

While the City has not previously submitted a Water Management Plan, the City has implemented several water conservation measures. Many of the existing programs are consistent with the water conservation measures listed in Tables 4-1 and 4-2. Table 4-3 lists the City's

existing water conservation programs and shows how they conform to the state's list of recommended and required water conservation measures.

Table 4-3. Grants Pass Existing Water Conservation Programs

WCM	Existing Programs
1	The City has a 24-hour emergency number where residents can call to report a water leak during non-business hours.
3	The City has a fully metered system so that all users pay for their water consumption. System development charges (SDCs) are based on meter size. In addition, separate metering for indoor and outdoor use is available for commercial and industrial customers.
4	The City enforces compliance with state regulations.
6	Treated effluent (non-potable) water, rather than potable city water, is used at the wastewater treatment plant where feasible on all new fixtures.
7	The City currently provides an annual accounting of water in compliance with the measurement standards in OAR 690, Division 85. The City meters water as it is diverted and as it leaves the water treatment plant and compares that with metered uses. The City tracks usage by category such as residential, industrial, commercial, and multi-family.
8	All service connections are metered.
9	Staff currently walks the lower elevation portions of the water system annually during flushing activities. Staff and citizens report approximately six leaks per year. Leaks are repaired immediately upon notification. For customer leaks, the City's finance system automatically generates work orders so that customers whose usage is substantially higher than the previous billing period are notified of the possibility of a leak. As an incentive for timely repair, the City forgives 50 percent of the bill over and above normal usage.
10	The City has standardized on Neptune and Badger meters with 15-year warranties. Staff has recently completed replacing older Neptune and Badger residential meters with the new meters. As the meters approach their warranty life, staff will randomly test hundreds of meters. This practice, when conducted in the past, showed that less than 1 percent of the meters are faulty; replacement of the faulty meters is a key component to the City's low unaccounted for water rate. Should a meter fail, the City's finance system automatically generates work orders for meter checks where usage is substantially lower than the previous billing period so that faulty meters can be replaced quickly. The City is currently replacing existing compound commercial meters with Metron single jet meters, which staff has found to be more dependable.
11	The City currently distributes water conservation pamphlets in water bills annually. In addition, conservation information is distributed in the annual Consumer Confidence Report and in the spring City newsletter. Examples are included in Appendix D.
12	To provide accountability for bulk water users, the City has a bulk water dispensing station at the Hillcrest Fire Station. In addition, the City has six 3-inch hydrant flow meters for use by area contractors.

EVALUATION OF ADDITIONAL CONSERVATION MEASURES

The water conservation screening process began with a review of the available literature and Water Management Plans from other Oregon communities. A complete bibliography is given in Chapter 8. From this review, a list of water conservation measures was developed. The list included the following:

- Offer rebates for costs of replacement of lawns with alternative landscaping
- Offer rebates for installation of drip irrigation systems for shrub or tree areas and automatic timers or controllers for turf areas
- Offer rebates for water efficient appliances
- Require water efficient landscaping in the plan approval process
- Construct a water-efficient demonstration garden
- Institute a residential audit program beginning with those single- and multi-family users with the highest consumption
- Distribute free Plumbing Fixture Check-up Kits
- Distribute free low flow shower heads and faucet aerators
- Offer rebates for ultra-low flow toilets
- Retrofit public facilities
- Adopt rates that support and encourage water conservation
- Backwash water treatment filters with untreated water
- Use treated wastewater effluent for irrigation of public areas
- Install additional bulk water dispensing stations to reduce unauthorized users
- Hire a firm to electronically detect system leaks
- Prohibit the wasting of water

These measures were qualitatively evaluated based on the following criteria:

- **Projected Water Savings** – Water savings depend on the applicability of the program to the water market. For Grants Pass, residential is the single highest water use category so programs that focus on residential conservation will likely be the most effective. Savings also depend on user participation and the volume of water saved per participant. Savings are also defined as the relative water savings compared to the estimated cost of implementation.
- **Supplier Cost** – The cost of the measure includes the City's cost to start up, operate, and maintain the conservation program. It may also include additional cost to the consumer in higher rates or reduced cost in water savings and rebates. Costs were estimated based on information from manufacturers, estimated staffing cost, and other communities' experiences.

- **Political Feasibility and Legal Constraints** – The compatibility of the measure with the local political situation is necessary to consider in the evaluation of a measure. Legal constraints may include conflicts with existing City or State regulations.
- **Consistency with Community Values** – For a measure to be successful, it must be compatible with community-held values. For example, users may participate willingly in a measure to do their part for the community and environment or they may see it as an inconvenience or reduction in service. Consistency with community values was determined by discussions with City leaders and staff.
- **Environmental Impacts** – Measures may have direct or indirect environmental impacts, such as energy conservation, associated with them.

Two measures were dropped from consideration before the initial screening because they were not feasible. The measure that would require using untreated water to backwash filters was eliminated because it will threaten public health given the design of the water treatment process. The measure that would require using treated wastewater to irrigate public areas is not feasible because the City's wastewater treatment plant does not produce effluent of a quality that meets the standards for reuse of wastewater, OAR 340-55.

Table 4-4 shows the result of the preliminary screening of the remaining water conservation alternatives.

Of the thirteen measures that were screened, five resulted in an unfavorable rating. Two of the unfavorable measures involved sizable rebates. These measures were judged as too costly relative to the water savings.

The measure that would require water-efficient landscapes through the planning approval process is not feasible immediately. The City recently completed the lengthy process of updating their code; the update did not include conservation landscaping. However, the code is updated periodically and landscaping conservation requirements will be included in a future update.

The fourth measure receiving an unfavorable rating involved hiring a consultant to electronically detect leaks in the transmission system. The City's unaccounted for water rate for 2000 was 10.6 percent. Since this includes system flushing and fire fighting as well as leakage, it is certain that the leakage rate is below the 10 percent goal established by the State. Further, the City's capital improvement program already includes replacement of the City's oldest pipes, which are the most likely to leak. Therefore, the benefit from this measure was seen as minimal and it was dropped from further consideration.

Last, since public facilities are small, retrofitting them was determined to be too costly for the actual water that would be saved. They will be retrofitted per the state regulations as fixtures are replaced during regular maintenance and any new construction will comply with state regulations for low flow fixtures.

The two measures receiving neutral ratings were rebates for efficient irrigation systems and residential audits. These measures can be considered in more detail in the future if the top-rated measures do not provide expected results or if it is determined that additional measures are necessary.

Six measures received a favorable rating and were subjected to a detailed cost/benefit analysis. These measures are described in the following section.

Table 4-4. Initial Water Conservation Program Screening

Program	Water Savings	Supplier Cost	Political/Legal Feasibility	Community Values	Environmental Impacts	Summary
Rebate for lawn replacement	●	○	○	○	⊖	○
Rebate for efficient irrigation systems	●	○	○	●	●	⊖
Require water efficient landscapes	●	⊖	○	○	○	○
Construct demonstration garden	⊖	●	●	●	⊖	●
Conduct residential audits	○	⊖	⊖	○	⊖	⊖
Distribute plumbing fix-up kits	⊖	⊖	●	●	●	●
Rebates for shower heads and faucet aerators	●	⊖	⊖	●	●	●
Rebates for ultra-low flow toilets	⊖	○	○	○	●	○
Retrofit public facilities	○	○	●	●	○	○
Adopt rates to encourage conservation	●	●	⊖	⊖	●	●
Install additional bulk water dispensers	●	⊖	●	●	●	●
Hire a firm to electronically detect leaks	○	○	⊖	○	⊖	○
Implement a water waste prohibition	⊖	●	⊖	●	●	●

● = favorable; ⊖ = neutral; ○ = unfavorable

Description of Measures

Additional Bulk Water Dispensing Stations. Although this measure is not strictly a conservation measure in that it does not reduce water use, it is important in reducing the quantity of unaccounted-for water in the system. Installing bulk water dispensers where water use would be metered and sold for a nominal fee would reduce unauthorized use of water. The City proposes installing up to three stations. For the analysis, it was assumed that water would be sold for an amount that would cover the operation of the stations. The cost of producing the water, $0.04/100 gallons according to City staff, was income previously lost and would be recouped to pay back the capital cost of the stations.

Inverted Block Water Rates. Currently the City has a uniform water rate. Customers are charged a flat monthly rate for the first 500 cubic feet of water and a flat commodity charge by customer class for water over and above 500 cubic feet. A surcharge is added for higher pressure zones. The City's Bill Equalizer Payment Plan allows residents to pay an average monthly rate year round. While this allows residents to more easily budget for their utility bills, it does not encourage conservation, particularly in the high-use summer months. An inverted block rate would establish increasing prices for successive consumption blocks. This rate structure will effectively reduce summer usage and if the rate is structured correctly, maintain current levels of water department funding.

Low Water Use Demonstration Garden. The City proposes constructing a demonstration garden at the water treatment plant. The garden would showcase drought tolerant plants and efficient irrigation practices and equipment. With the garden, literature would be made available to further educate citizens on the advantages of low water use landscaping.

Distribute Plumbing Kits. Plumbing kits are available for distribution to single- and multi-family residential customers. For this analysis, it was assumed that over a period of two years, the City would distribute up to 1,500 plumbing kits to residents who requested them. The plumbing kits would include a low flow showerhead, a faucet aerator, and dye tablets to detect leaks. According to literature, the kits will reduce indoor water use up to 12.5 gpcd in the households where they are installed.

Fixture Rebates. As a follow-up program to the plumbing kit distribution, the City could offer rebates for low flow showerheads and faucet aerators. The City could initiate the program by itself, or in partnership with the power utility. It was assumed for this analysis that the program would be operated by the City and that 100 of the showerheads and aerators would be sold. Pacific Power and Light recently offered rebates on plumbing fixtures along with high-efficiency light bulbs.

Water Waste Prohibition. This measure has no capital cost associated with it; nor does it have a definable water savings associated with implementation. However, implementation of this measure is important because it defines the City's values as to the use of water as a limited resource. It is therefore included as a proposed water conservation measure. The measure would consist of passing an ordinance with a specific enforcement component.

Basis of Analysis

For each measure listed in this section, an estimate was made of implementation costs and the amount of water that would be conserved. The estimated amount of water conserved was based on the experiences of similar programs cited in the available literature. The financial benefit of implementing each measure could be calculated as the reduced operation cost to produce the water and delayed or eliminated capital projects due to lower water use. However, the reduced operation cost is offset by revenue lost by not selling the water (with the exception of the bulk water dispensing station). In addition, the capital projects listed in the Grants Pass Distribution System Water Master Plan are related to growth and system performance and would not be affected by reduced water consumption. Therefore, the programs were evaluated strictly on their cost per unit of water saved.

Analysis Results

Table 4-5 summarizes the estimated cost for each 100 gallons of water saved for the proposed conservation measures.

Table 4-5. Conservation Measure Analysis Summary

Measure	$/100 gallons saved
Bulk Water Dispensing Stations	0.16
Inverted Block Water Rates	0
Low Water Use Demonstration Garden	0.10
Distribute Plumbing Kits	0.10
Showerhead and Faucet Aerator Rebates	0.29
Water Waste Prohibition	0

Table 4-5 shows that implementing new water rates to discourage high water use is the most cost-effective conservation measure. The demonstration garden, plumbing kit distribution, and bulk water dispensing stations are moderately affordable and the rebate for showerheads and faucet aerators is the most expensive conservation measure considered.

RECOMMENDED CONSERVATION MEASURES

As a result of the evaluation described above, five conservation measures are recommended for implementation. Table 4-6 presents the results of the evaluation along with the State's WCM category for each measure:

Table 4-6. Water Conservation Program Recommendations

WCM Category	Program Description	Recommendation
12	Additional Bulk Water Dispensing Stations	Recommended
5	Inverted Block Water Rates	Recommended
2, 11	Low Water Use Demonstration Garden	Recommended
4	Distribute Plumbing Kits	Recommended
4	Showerhead and Faucet Aerator Rebates	Not Recommended
12	Water Waste Prohibition	Recommended

IMPLEMENTATION SCHEDULE

Table 4-7 shows an implementation schedule for the recommended conservation programs. The schedule shows that three measures (a new water rate structure, a water waste prohibition, and bulk water dispensing stations) be implemented immediately and that the remaining programs be implemented in following years.

Table 4-7. Recommended Conservation Program Implementation Schedule

Program Description	Implementation Schedule
Additional Bulk Water Dispensing Stations	2001
Inverted Block Water Rates	2001
Low Water Use Demonstration Garden	2002
Distribute Plumbing Kits	2003
Water Waste Prohibition	2001

CHAPTER 5

WATER CURTAILMENT PLAN

CHAPTER 5

WATER CURTAILMENT PLAN

OAR 690-086 requires that the Water Management Plan include a description of water supply deficiencies that have occurred within the last 10 years and a discussion of the ability of the water supplier to maintain delivery during long-term drought or short-term shortages. Also required is a water curtailment plan that includes a list of three or more stages of alert for potential shortage or water service difficulties, a description of predetermined levels of severity of shortage or water service difficulties that would trigger curtailment actions under each stage of alert, and a list of specific standby water use curtailment actions for each stage of alert.

The City has an existing water curtailment ordinance, Section 8.04.070, Emergency Water Conservation Procedures. The ordinance authorizes the Mayor to declare a water conservation emergency and gives the City Manager or his designee the authority to implement a water conservation program. The ordinance outlines conditions under which an emergency could be declared and lists measures that could be implemented to reduce water consumption. To comply with OAR 690-086, the existing ordinance will be repealed and a new ordinance will be implemented to conform to the stages of alert and definitions of triggers outlined in the plan. A copy of the new ordinance is included as Appendix E.

FREQUENCY AND MAGNITUDE OF SUPPLY DEFICIENCIES

There have been no supply deficiencies over the last 10 years. The City's source, the Rogue River, provides ample supply even in the driest conditions according to historical flow data. Water production is limited to 18 mgd by the capacity of the water treatment plant, which is much higher than current levels of demand. Peak day use in 2000 was 9.7 mgd, just 54 percent of the plant capacity. Available storage in the existing distribution system is summarized in Table 5-1.

Table 5-1. Available Storage

Type of Storage	Available Storage, mg
Operational	6.5
Emergency	9.9
Fire Flow	2.6
Total	19.0

Since Grants Pass relies solely on the Rogue River for its supply, the City is vulnerable to contamination of the river. It is estimated that it would take three days for a contaminant plume to pass the City's intake or for the treatment process be modified to neutralize the contaminant. Emergency storage will provide three days of storage if demand is reduced to about 70 percent of

the annual average demand, which is achievable with restrictions. The storage would last even longer if use were restricted to essential needs only.

CURTAILMENT TRIGGERS

Although the City has been fortunate not to have experienced a water shortage, the potential exists for a situation where the water supply cannot meet demand for a time. The shortage could be City-wide due to source contamination, treatment difficulties, prolonged drought, pumping, or transmission problems. The shortage could be localized to a pressure zone due to distribution, pumping, or storage problems. Whatever the situation, the City will be well served to have in place a curtailment plan that defines levels of water shortage severity and mechanisms for dealing with the situation.

The City will institute three levels of water supply alert. The alert levels and their operational triggers are summarized in Table 5-2.

Table 5-2. Water Shortage Alert Levels and Triggers

Alert Level	Description	Trigger
One	Potential Water Supply Shortage	A serious drought condition is occurring or is likely to occur in the region or Rogue River flow rates are measured or projected to be below a 1-in-10 year low flow level, or the County or State has declared a drought condition.
Two	Water Supply Shortage	The City's ability to deliver water is not adequate to meet demand due to supply, treatment, or pumping restrictions, or extended treatment plant operation is required and storage cannot be maintained.
Three	Critical Water Supply Shortage	The supply is interrupted.

CURTAILMENT ACTIONS

For each level of alert, actions appropriate to the situation will be implemented to curtail water consumption. The following sections identify curtailment actions for the different alert levels.

Level One Alert – Potential Water Supply Shortage

The City Manager has the authority to activate some or all of the following voluntary curtailment actions listed below until the reasons for a Level One Alert have passed:

1) Restrict watering based on odd/even address numbers for residential and business customers, and governmental agencies. No watering will be allowed on Wednesdays. The schedule will apply to all lawn watering and all nonessential

water uses with exceptions as specified by the Manager. Watering hours will be restricted to before 6 a.m. and after 9 p.m.

2) Distribute brochures regarding conservation measures.
3) Implement a media outreach program.
4) Notify major water users asking for reductions in use or moving nonessential use to off-peak hours.
5) Cease operation of non-recirculating fountains.
6) Restrict hydrant and water line flushing.

Level Two Alert – Water Supply Shortage

The City Manager has the authority to mandate any or all of the following actions until the reasons for the Level Two Alert have passed:

1) Any Level One Alert actions.
2) No watering or lawn irrigation will occur unless the following specific uses are approved by the City Manager:
   a) New lawn, grass, or turf that has been seeded or sodded after March 1 of the current calendar year
   b) Athletic fields frequently used for organized play
   c) Golf course tees and greens
   d) Park and recreation areas of particular value to the community
3) City water will not be used to clean, fill, or maintain levels in decorative fountains.
4) City water will not be used to clean sidewalks, walkways, streets, driveways, parking lots, or other hard surfaces except where necessary for public health and safety.
5) City water will not be used to wash vehicles including automobiles, trucks, trailers, trailer houses, motorcycles, boats, or other type of mobile equipment.
6) Limitations may be placed on industrial and commercial water consumption.
7) Hydrant and water main flushing will be done in emergencies only.

Level Three Alert – Critical Water Supply Shortage

The City Manager has the authority to mandate any or all of the following actions until the reasons for the Level Three Alert have passed.

1) Any Level One Alert actions.
2) Any Level Two Alert actions.

3) No City water will be used for watering of landscaping or irrigating of lawns, grass, turf, athletic fields, golf course tees and greens, or parks and recreation areas.

4) No City water will be used to fill or maintain levels in scenic or recreational ponds and lakes, or other structures making similar use of water.

5) No City water will be used to fill, refill, or add to any swimming pools.

6) No City water will be used to wash the outside of buildings.

7) No City water will be used on construction projects.

8) No City water will be served to restaurant customers unless requested.

9) Residential use will be limited to health and safety uses only.

10) Limitations will be placed on industrial and commercial users up to and including interruption of supply with the exception of health and safety uses only.

CHAPTER 6

LONG RANGE WATER SUPPLY

CHAPTER 6

LONG RANGE WATER SUPPLY

FUTURE WATER NEEDS

Land use demand factors for the City of Grants Pass were developed using zoning information from the local comprehensive plan and historical water use data. The land use demand factors are shown in Table 3-6. Although the timing of land use development within the UGB is unknown, information is available regarding the current zoning designation for all properties within the UGB. Table 6-1 summarizes the acreage of properties within the UGB according to land use, differentiating between properties that are currently receiving water service and those that will connect to the water distribution system in the future. Using the unit demand factors developed for these land use classifications, the table also projects average annual water demand at the UGB build-out condition. This analysis assumes the existing mix of residential and commercial properties will stay the same in the future.

Table 6-1. Land Use Based Water Demand Projections for UGB Build-Out

Land Use	Existing Acreage	Future Acreage	Total Acreage	Unit Demand, gallons/acre-day	Estimated Average Day Demand, mgd
Commercial	1,146	598	1,744	1,400	2.4
Single-Family Residential	1,977	2,419	4,396	1,100	4.8
Multi-Family Residential	435	440	875	1,700	1.5
Redwood and North Valley[a]					0.8
Total	3,558	3,457	7,015		9.5

[a]North Valley and the Redwood district, portions of which are adjacent to but not currently within the UGB, are expected to continue using Grants Pass water, adding 0.3 and 0.5 mgd, respectively, to the build-out demand.

Grants Pass experienced an annual growth rate of 2.8 percent from 1990 to 2000. The Grants Pass Distribution System Water Master Plan predicted a build-out population of 45,000. Assuming a current population of 23,170 and a conservative consumption rate of 200 gpcd, a straight line projection allows for the interpolation of water requirements for intermediate years 2010 and 2020. Future maximum day demands can be developed using the peaking factor developed in Table 3-2. Future water requirements are summarized in Table 6-2.

Table 6-2. Estimated Future Water Demand

Year	Average Day Demand, mgd	Maximum Day Demand, mgd
2010	6.1	13
2020	8.1	18
Build-out	9.5	21

AVAILABLE SOURCES OF WATER

As discussed in Chapter 2, the Rogue River provides an ample and reliable water supply for the City of Grants Pass as it expands to the limits of its urban growth boundary. The City holds four water rights totaling 87.5 cfs (56.4 mgd). The listing of salmon as an endangered species and long-term climate change potentially may have an effect on the reliable yield of the river in the future. These issues warrant attention, but are ill defined at this time. It can be concluded that the City's supply can meet near and long-term future water needs.

Historically, development surrounding the City has relied on groundwater supplies. Wells in the region either have not been reliable or productive or have had groundwater quality issues associated with them which has led to the extension of service by the City. The North Valley system is an example where alternative sources of water were not able to meet development demands.

CHAPTER 7

PLAN UPDATE SCHEDULE

CHAPTER 7

PLAN UPDATE SCHEDULE

The City will monitor water production and metered sales and report its findings to the Water Resources Department as a part of the annual water use reporting program under OAR 690-85. This report will include a summary of the results of the water conservation measures implemented in the past year and note any significant changes in growth projections, per-capita water use, or community water needs.

The City will update this Water Management Plan five (5) years after it is approved by the Water Resources Department. The update will include recent water consumption data, system improvements, and an evaluation of the effectiveness of the conservation measures implemented as a result of this plan.

CHAPTER 8

REFERENCES

CHAPTER 8

REFERENCES

BMP Costs and Savings Study, California Urban Water Conservation Council, July, 2000.

City of Wilsonville Water Management Conservation Plan

City of Jacksonville Water Management and Conservation Plan

City of Salem Water Curtailment Plan (www.open.org/spubwork/water/curtailment.htm) accessed 4/16/01

Deoreo, William B., et. al., Retrofit Realities, *Journal AWWA*, 93:3:58.

Oregon Water Resources Department, Example Water Management Plan (www.wrd.state.or.us/publications/pdfs/model.mamtplan.pdf) accessed April, 2001.

Oregon Water Resources Department, Proceedings form the 4th Annual Municipal Water Management and Conservation Workshop, November, 2000.

Pekelney, David M., et. al., Guidelines to Conduct Cost-Effectiveness Analysis of Best Management Practices for Urban Water Conservation, California Urban Water Conservation Council, September, 1996

Platt, Jennifer, and Delforge, Marie Cefalo, The Cost-Effectiveness of Water Conservation, *Journal AWWA*, 93:3:73

Water Conservation Guidebook for Small and Medium-Sized Utilities, American Water Works Association, Pacific Northwest Section, August, 1993.

APPENDIX A

WATER RIGHTS DOCUMENTATION

Water Rights

City of Grants Pass
User ID: 1114
POD-ID 11530

Date	Certificate #	Permit #	Permitted Rate/CFS	Permitted Use	Prim/Alt/ Supp	Gallons
12/31/88	15839	D 15839	12.5	Municipal	Primary	8,078,400
12/31/88	15839	D 15839	12.5	Irrigation	Alternate	8,078,400
7/19/60	0	S 26901	25.0	Municipal	Primary	16,156,800
12/2/65	0	S 45827	25.0	Municipal	Primary	16,156,800
1/13/83	0	S 47346	25.0	Municipal	Primary	16,156,80

Note: Two water rights for 1988 one and the same. Total water permitted to the City is 87.5 CFS.

14361500 ROGUE RIVER AT GRANTS PASS, OR

LOCATION.--Lat 42°25'50", long 123°19'00", in NW 1/4 sec.20, T.36 S., R.5 W., Josephine County, Hydrologic Unit 17100308, on right bank at city of Grants Pass filter plant, 0.6 mi upstream from bridge on State Highway 99 at Grants Pass, and at mile 101.8. Prior to Sept. 3, 1983, at site 300 ft upstream.

DRAINAGE AREA.--2,459 mi^2.

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1318.

REVISED RECORDS.--WSP 1738: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 884.28 ft above sea level. Prior to Aug. 8, 1957, at site 300 ft upstream at datum 4.00 ft higher and Aug. 8, 1957, to Sept. 2, 1983, at site 300 ft upstream at datum 1.00 ft higher.

REMARKS.--Records good. Flow regulated since February 1977 by Lost Creek Lake (station 14355040), slight regulation by Fish Lake and Emigrant Lake. Large fluctuations at times caused by Savage Rapids Dam 5.5 mi upstream from station. Many diversions from Rogue River and tributaries upstream from station, the largest of which is at Savage Rapids Dam of Grants Pass Irrigation District, 5.5 mi upstream from station. Continuous water-quality records for the period August 1973 to September 1987 have been collected at this location.

AVERAGE DISCHARGE.--39 years (water years 1939-77), 3,543 ft^3/s, 2,566,000 acre-ft/yr.
20 years (water years 1978-97), 3,259 ft^3/s, 2,361,000 acre-ft/yr, regulated period.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152,000 ft^3/s Dec. 23, 1964, gage height, 35.15 ft, present datum, from rating curve extended above 93,000 ft^3/s; minimum discharge, 195 ft^3/s Jan. 30, 1961; minimum daily, 606 ft^3/s Sept. 10, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1861 reached a stage of about 43 ft, present datum (information furnished by Corps of Engineers). Flood in February 1890 reached a stage of about 36 ft, present datum, and that of Feb. 21, 1927, about 32 ft, present datum, according to local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90,800 ft^3/s Jan. 1, gage height, 26.49 ft; minimum discharge, 1,110 ft^3/s Oct. 10, result of regulation at Savage Rapids Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1220	2060	8750	e69000	8740	3660	3970	8050	3500	3730	2000	2380
2	1200	2960	8740	e56000	7960	7880	3530	6870	3410	3430	2010	2350
3	1220	3310	7990	e43500	7250	6540	3330	5540	3430	3130	1990	2450
4	1210	3300	8660	e31000	6870	5570	3040	6470	3880	3070	1980	2410
5	1230	3320	24000	e26000	5930	5010	2830	6210	3910	2980	1930	2390
6	1230	3300	13600	e23500	5920	4610	2750	5940	3650	2990	1920	2400
7	1250	3290	15300	21800	6060	4400	2760	5170	3500	2870	1910	2400
8	1220	3290	40200	21700	7220	4310	2790	4620	3470	2720	1910	2410
9	1210	3290	38500	20800	5640	4220	2940	4210	3520	2650	1940	2400
10	1200	2860	28100	18900	5200	4500	2870	4130	3550	2550	1970	2440
11	1210	2500	25000	18100	4730	4390	2760	4120	3700	2530	1960	2510
12	1250	2310	20800	18300	4750	4600	2580	4440	3770	2510	2030	2490
13	1300	1980	19500	14700	4560	4380	2520	4690	3820	2490	2200	2300
14	1460	1940	17200	13400	4180	4220	2560	4610	3780	2480	2250	2210
15	1470	2130	15200	9600	3770	4250	2500	4490	3690	2470	2260	2270
16	1570	2180	14100	5930	3580	4330	2430	4040	3670	2470	2240	2240
17	1570	2120	13100	5840	3840	4930	2460	4080	3610	2470	2240	2270
18	1860	5360	11700	5880	3980	4790	2810	3840	3570	2230	2300	2250
19	1920	e18700	9460	5850	3920	4530	3430	3700	3660	2200	2300	1960
20	1850	13400	7650	5850	4100	4540	4570	3620	3640	2220	2420	1730
21	1770	7350	10800	5870	3830	4630	8390	3430	3620	2230	2570	1510
22	1740	6660	9330	6220	3630	4470	9200	3020	3610	2000	2480	1430
23	1740	6390	8440	5960	3420	4340	10500	2940	3610	1890	2470	1400
24	2100	6250	7970	5960	3260	4240	9390	3750	3580	1900	2650	1370
25	2510	6650	11200	7630	3130	4200	7060	3610	3580	1930	2620	1350
26	2520	6100	19000	10200	3200	4460	6070	3400	3560	1940	2590	1340
27	2140	6580	22600	8880	3650	4410	5700	3370	3440	1940	2610	1350
28	2090	7860	22200	7670	4130	4420	5560	3640	3360	1930	2510	1370
29	2860	8310	e22000	6950	---	4670	5860	3720	3350	1910	2420	1370
30	2850	7530	26600	6800	---	4590	6310	3530	3720	1950	2410	1900
31	2210	---	38400	6960	---	4600	---	3440	---	2020	2380	---
TOTAL	52180	153280	546090	514750	136450	144690	133470	136690	108160	75830	69470	60650
MEAN	1683	5109	17620	16600	4873	4667	4449	4409	3605	2446	2241	2022
MAX	2860	18700	40200	69000	8740	7880	10500	8050	3910	3730	2650	2510
MIN	1200	1940	7650	5840	3130	3660	2430	2940	3350	1890	1910	1340
AC-FT	103500	304000	1083000	1021000	270600	287000	264700	271100	214500	150400	137800	120300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1997, BY WATER YEAR (WY)

MEAN	1499	2670	5251	4684	4556	4034	4002	3607	2709	2146	2164	1840
MAX	2282	7669	17620	16600	10960	8119	6843	5910	4572	3127	3080	2642
(WY)	1984	1985	1997	1997	1983	1983	1983	1996	1993	1984	1984	1983
MIN	1008	1160	1557	1575	1641	1099	1211	1857	1549	1059	1620	1333
(WY)	1995	1988	1990	1992	1992	1992	1994	1992	1992	1992	1994	1980

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1978 - 1997	
ANNUAL TOTAL	2162820		2131710			
ANNUAL MEAN	5909		5840		3259	
HIGHEST ANNUAL MEAN					5840	1997
LOWEST ANNUAL MEAN					1538	1992
HIGHEST DAILY MEAN	40200	Dec 8	69000	Jan 1	69000	Jan 1 1997
LOWEST DAILY MEAN	1200	Oct 2	1200	Oct 2	744	Oct 10 1994
ANNUAL SEVEN-DAY MINIMUM	1220	Oct 4	1220	Oct 4	799	Sep 22 1994
ANNUAL RUNOFF (AC-FT)	4290000		4228000		2361000	
10 PERCENT EXCEEDS	12400		11400		6080	
50 PERCENT EXCEEDS	3930		3580		2260	
90 PERCENT EXCEEDS	1730		1910		1310	

e Estimated

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APR 20 1981
WATER RESOURCES DEPT
SALEM, OREGON

EXHIBIT "A"

CITY OF GRANTS PASS
PROPERTY DESCRIPTION
WATER PERMIT APPLICATION

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FEB 0 1981
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
JUL 28 1981
WM. DIST. 14
GRANTS PASS, ORE.

Township		Range		Section		
	35S		5W		32	S½ SW¼
	36S		5W		6	All
	36S		5W		5	NW¼
						SW¼
						W½ SE¼
	36S		5W		7	All
	36S		5W		8	All
	36S		5W		9	W½ NW¼
						W½ SW¼
	36S		5W		18	All
	36S		5W		17	All
	36S		5W		16	NW¼
						SW¼
						SE¼
	36S		5W		15	SW¼
	36S		5W		19	All
	36S		5W		20	All
	36S		5W		21	All
	36S		5W		22	NW¼ Only that portion
						no. of Rogue River
	36S		5W		30	NW¼
						NE¼
						W½ SW¼
						NE¼ SW¼
						N½ SE¼
	36S		5W		29	All, excepting
						SW¼ SW¼
	36S		5W		28	NW¼
						SW¼
	36S		5W		31	W½ NW¼
						SW¼
	36S		5W		32	E½ NW¼
						NE¼
						NE¼ SW¼
						N½ SE¼
	36S		5W		33	NW¼
						N½ SW¼
	37S		5W		6	N½ NW¼
	36S		6W		13	NE¼
						SE¼
	36S		6W		14	S½ SE¼
						SW¼ excepting that portion north of Rogue River
	36S		6W		15	SE¼ and
						SW¼ excepting that portion north of the Rogue River
	36S		6W		21	All
	36S		6W		22	All
	36S		6W		23	All
	36S		6W		24.	All
	36S		6W		25	All, excepting
						S½ SW¼
	36S		6W		26	All
	36S		6W		27	All
	36S		6W		28	All
	36S		6W		36	All
	37S		6W		1	N½ NW¼
						N½ NE¼

Application No. 41672
Permit No. 45827

Application No. 41673 (Revised) Permit No. 45827

STATE OF OREGON WATER RESOURCES DEPARTMENT

Application for Permit to Appropriate Surface Water

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FEB 9 1981
WATER RESOURCES DEPT
SALEM, OREGON

I, City of Grants Pass (Name of Applicant)

of 101 N.W. "A" Street (Mailing Address), Grants Pass (City)

State of Oregon, 97526 (Zip Code) Phone No. 476-8801 do hereby make application for a permit to appropriate the following described waters of the State of Oregon:

1. The source of the proposed appropriation is Rogue River, a tributary of

2. The point of diversion is to be located 1,133 ft. south (N. or S.) and 2,870 ft. west (E. or W.) from the northeast corner of Section 20 (Public Land Survey Corner)

(If there is more than one point of diversion, each must be described)

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WR. DIST. #3
GRANTS PASS, ORE

being within the northeast ¼ of the northwest ¼ of Sec. 20 Tp. 36 south (N. or S.) R. 5 west (E. or W.) W. M., in the county of Josephine

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

Township	Range	Section	List ¼ ¼ of Section	List use and/or number of acres to be irrigated
	SEE ATTACHED EXHIBIT "A" AND ACCOMPANYING MAP MARKED EXHIBIT "C".			

Form 600-1-0.1-77

Bar Assn Vol. Lists Rogue River

Application No. 41672 (Revised) Permit No. 45827

Permit to Appropriate the Public Waters of the State of Oregon

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

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 *cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from* Rogue River

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

If for irrigation, this appropriation shall be limited to ----- *of one cubic foot per second or its equivalent for each acre irrigated*

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

The priority date of this permit is December 2, 1965

Actual construction work shall begin on or before July 21, 1982 *and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19* ~~84~~ ~~83~~ ~~82~~ ~~81~~ 10-1-89 10-1-99 10-1-99

Complete application of the water to the proposed use shall be made on or before October 1, 19 ~~84~~ 10-1-89 10-1-99 10-1-99

WITNESS my hand this 21st *day of* July, *19* 81

Water Resources Director

Abstract of Permit No. 26901

Application No. 31141 *Certificate No.*

Name City of Grants Pass Water Department

Address City Hall - 4th and "F" Streets
Grants Pass, Oregon

Source of water supply Rogue River

Use Municipal; provided further that the right to the use of water is limited to the period when the flow of the Rogue a 1133' S. and 2870' W. from the NE corner of Section 20, being within the NE¼ NW¼ of Section 20, T. 36 S., R. 5 W., W.M., in the county of Josephine.

Point of diversion

Number of acres

DESCRIPTION OF LAND TO BE IRRIGATED OR PLACE OF USE

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼
36 S	5 W	7	X			X					X	X	X	X	X	X	X	X
		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		9						X	X			X	X					
		16					X	X	X	X	X	X	X	X				
		17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		21					X	X	X	X	X	X						

~~* River at the mouth is more than 735 c.f.s.~~

Priority date July 19, 1960

Amount of water 25.0 c.f.s. measured at the point of diversion

Time limit to begin construction September 20, 1964

Time limit to complete construction 10/1/64 extended to 10-1-69 extended to ~~10-1-79~~ 10-1-99

Time limit to completely apply water ~~10/1/64~~ extended to extended to ~~10-1-94~~ 10-1-99

Remarks:

Basin 15 Vol. 1 Rogue River Basin

ECTG-PS1-a

Abstract of Permit

7

This is to certify that I have examined APPLICATION 64732 and do hereby grant the same SUBJECT TO EXISTING RIGHTS INCLUDING THE APPROPRIATE MINIMUM FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD and the following limitations and conditions:

This permit is issued to City of Grants Pass, 101 NW "A" Street, Grants Pass, Oregon 97526, phone 476-3801, for the use of the waters of Rogue River,

for the PURPOSE of municipal use,

that the PRIORITY OF THE RIGHT dates from January 13, 1983,

and is limited to the amount of water which can be applied to beneficial use and shall not exceed 25.0 cubic feet per second.

The POINT OF DIVERSION is to be LOCATED: 1,133 feet South and 2,370 feet West from the Northeast Corner of Section 20, being within the NE 1/4 NW 1/4 of Section 20, Township 36 South, Range 5 West, WM, in the County of Josephine.

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

Township 35 South, Range 5 West, WM	Section 32	S 1/2	SW 1/4	Municipal use
Township 35 South, Range 6 West, WM	Section 22	SE 1/4	SE 1/4	
		NW 1/4	SE 1/4	
		NE 1/4	SE 1/4	
		SW 1/4	NE 1/4	
		SE 1/4	NE 1/4	
	Section 23	SE 1/4	SW 1/4	
		SW 1/4	SW 1/4	
		NW 1/4	SW 1/4	
	Section 25	SW 1/4	SW 1/4	
		NW 1/4	SW 1/4	
		SW 1/4	NW 1/4	
		NW 1/4	NW 1/4	
	Section 26	NW 1/4		
		NE 1/4		
		NE 1/4	SE 1/4	
		NW 1/4	SE 1/4	
		NE 1/4	SW 1/4	
		NW 1/4	SW 1/4	

RECEIVED
APR 1 5 1983
WM. DIST. 14
GRANTS PASS, ORE.

SEE NEXT PAGE

Actual construction work shall begin on or before March 22, 1984, and shall thereafter be prosecuted with reasonable diligence and be completed on or before ~~October 1, 1984~~ 10-1-99

Complete application of the water to the proposed use shall be made on or before ~~October 1, 1985~~ 10-1-99

Witness my hand this 22nd day of March, 1983.

WATER RESOURCES DIRECTOR

This permit, when issued, is for the beneficial use of water. 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 that the land use you propose may not be allowed if it is not in keeping with the goals and the acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.

APPLICATION 64732

Rogue River Basin Unit 1

PERMIT 47346

		NE 1/4 SW 1/4
		SW 1/4 NE 1/4
		SW 1/4
Township 36 South, Range 5 West, WM	Section 5	NW 1/4
		SW 1/4
		W 1/2 SE 1/4
	Section 6	All
	Section 7	All
	Section 8	All
	Section 9	W 1/2 NW 1/4
		W 1/2 SW 1/4
	Section 15	SW 1/4
	Section 16	NW 1/4
		SW 1/4
		SE 1/4
	Section 17	All
	Section 18	All
	Section 19	All
	Section 20	All
	Section 21	All
	Section 22	NW 1/4
	Section 28	NW 1/4
		SW 1/4
	Section 29	All
	Section 30	All
	Section 31	All
	Section 32	All
	Section 33	W 1/2
Township 36 South, Range 6 West, WM	Section 1	NE 1/4 NE 1/4
	Section 13	NE 1/4
		SE 1/4
		E 1/2 SW 1/4
	Section 14	S 1/2 SE 1/4
		SW 1/4
	Section 15	S 1/2 SE 1/4
		NE 1/4 SE 1/4
		SE 1/4 SW 1/4
	Section 21	All
	Section 22	All
	Section 23	All
	Section 24	All
	Section 25	All
	Section 26	All
	Section 27	All
	Section 28	All
	Section 33	All
	Section 34	All
	Section 35	All
	Section 36	All
Township 37 South, Range 5 West, WM	Section 4	N 1/2 NW 1/4
	Section 5	N 1/2 NW 1/4
		N 1/2 NE 1/4
	Section 6	N 1/2 NW 1/4
		N 1/2 NE 1/4
Township 37 South, Range 6 West, WM	Section 1	N 1/2 NW 1/4
		N 1/2 NE 1/4
	Section 2	N 1/2 NW 1/4
		N 1/2 NE 1/4
	Section 3	N 1/2 NW 1/4
		N 1/2 NE 1/4
	Section 4	N 1/2 NW 1/4
		N 1/2 NE 1/4

47346

ent by: DAVIS WRIGHT TREMAINE 503/8529 04/26/01 4:29PM; #213; Page 1/1

APPENDIX B

NORTH VALLEY SERVICE AGREEMENT

City of Grants Pass

ADDENDUM No. 1
CITY-COUNTY WATER AGREEMENT
ON
NORTH VALLEY INDUSTRIAL PARK

WHEREAS, the City of Grants Pass and Josephine County entered into an agreement on October 6, 1982, whereby the City would supply water to the North Valley Industrial Park, and;

WHEREAS, a portion of the funding is to come from federal funds from EDA, and;

WHEREAS, EDA requires that ownership of the water line, as well as construction responsibility of it, lies with Josephine County, for purposes of receiving the grant funds; and

WHEREAS, the City must maintain that degree of control and responsibility of the water lines that insures the integrity of the water system for the protection of the health, safety, and welfare of all users;

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:

1. That the contract of October 6, 1982 is hereby amended in the following manner:

   a. Paragraph 4, on page 2 of the contract is amended to read as follows:

      "4. The County [~~City~~] will construct [~~a~~] water facilities to the site as set out in Plan II of the "Site Development Plan Implementation Strategy" dated June 1982 (as set out in Exhibit "B") and City is to provide adequate water to the site as more specifically set forth herein.

   b. Paragraph 5, on page 2 of the contract is amended to read as follows:

      "5. The County [~~City~~] will have ownership of such water facilities for a period of fifty years. On the fifty-first year, ownership will be transferred to the City; consideration being found in the maintenance of such water facilities for the fifty-year period. [~~and be~~] The City will be responsible for operation and maintenance of such water facilities and that the policies under which said facilities are operated and maintained shall in all respects be the

same as for other parts of the City water system. This includes additional connections and added expansions of the line or lines, which are within the sole discretion of the City.

All costs for maintenance, repair, reconstruction and replacement of such water facilities shall be the responsibility of the City. The City shall have a continuing right to use all property which is owned or controlled by the County upon which the water facilities are located, so long as they are used for utility purposes. Upon the fifty-first year, from the date of this agreement, the ownership or right to use of the property on which the water facilities are located, shall transfer to the City.

2. In all other respects the original terms of the contract are hereby affirmed.

IN WITNESS WHEREOF, the below signators set their hand this 9th day of March, 1983.

JOSEPHINE COUNTY BOARD OF COUNTY COMMISSIONERS

Harold L. Haugen, Chairman

William F. Ford, Commissioner

Tony Corriea, Commissioner

City Manager

ATTEST:

Finance Director

APPROVED AS TO FORM:

Duane Schultz

AGREEMENT

The City of Grants Pass, hereinafter referred to as "City" and Josephine County, hereinafter referred to as "County", acting by and through their governing bodies, hereby recite and agree as follows:

W I T N E S S E T H

WHEREAS, the County owns property outside the corporate limits of the City of Grants Pass, and more particularly described in Exhibit "A"; and

WHEREAS, the County is desirous of constructing water systems improvements to the site; and

WHEREAS, County seeks to develop the land it currently owns to standards compatible with the development of a "campus style" industrial park, and the land lies within the area known as the "North Valley Industrial Park"; and

WHEREAS, the City has the capacity to provide water systems improvements as well as the legal procedures to establish Local Improvement Districts with the ability for Bancroft financing; and

WHEREAS, City and County are authorized to enter into intergovernmental agreements pursuant to ORS 190.010 and 190.020; and

WHEREAS, ORS 225.080 allows City to make assessments outside its corporate limits for water improvement systems with approval of the Board of County Commissioners and to Bancroft such Local Improvement Districts; and

WHEREAS, Chapter II and Chapter IX of the City Charter and Title IX, Chapter 9.36, of the City Ordinance give City procedures and methods for the formation of a Local Improvement District with the benefit of Bancrofting; and

WHEREAS, County has executed the proper resolution as required by ORS 225.080 requesting and authorizing the City to establish the district and assess the costs against the benefited properties; and

WHEREAS, County is prepared to underwrite all reasonable costs of the project to the City, it being the intent that the County assume and pay all reasonable costs that the City may incur from the start of the project until final payment of the Bancrofting; and

WHEREAS, neither the City nor the County now have the water right or permit that would allow water service to the North Valley Industrial Park; and

WHEREAS, it is conceivable that the City may wish to annex this area in the future.

NOW, THEREFORE, IT IS HEREBY AGREED as follows:

1. The City will initiate and administer a Local Improvement District for water systems improvements in that portion of the "North Valley Industrial Park" which is owned by the County and is more particularly described in Exhibit "A".

2. The County will perform such acts as required by law in the formation and administration of the Local Improvement District.

3. The County obligates itself to assume and pay all reasonable costs of the project, it being the intent of this Agreement that the City shall suffer no gain or loss due to its participation as initiator and administrator of the Local Improvement District. The County shall guarantee all payments of the Bancroft bonds to be issued pursuant to this Agreement. Any financial gains on the issuance or redemption of bonds shall be remitted to the County.

4. The City will construct a waterline and reservoir to the site as set out in Plan II of the "Site Development Plan Implementation Strategy" dated June 1982 (as set out in Exhibit "B") and provide water to the site as more specifically set forth herein.

5. The City will have ownership of such lines and be responsible for operation and maintenance of such reservoir and line or lines and that the policies underwhich said facilities are operated and maintained shall in all respects be the same as for other parts of the City water system.

6. The County will pre-pay connection charges in the amount of $80,000 as a part of the capital costs of the district, which will reserve 60,000 gallons per day (maximum 5-day demand) for the 85 acre site. This fee does not include the cost of meters or meter installation charges as service is actually provided to properties within the district.

7. The City and County acknowledge the need to develop other industrial sites in the Grants Pass Urban Growth Boundary.

8. The City will make immediate application for amendment of its water rights and/or permits in order to serve the site.

9. Except as provided herein, the City shall operate said facility, and other customers connected thereto in all respects as other out-of-City utility customers except a user surcharge of not greater than sixty percent (60%) shall apply.

10. At such time as the city limits are contiguous with the site, County agrees to make application to the City for annexation in accordance with applicable laws.

11. Any dispute arising under this Agreement shall be resolved pursuant to the arbitration provisions of ORS 33.210 et seq.

12. Until such time as City obtains an approved permit or water right to serve the site, City agrees not to incur any expenses pursuant to this Agreement except reasonable engineering costs by Robert E Meyer & Associates, Inc. and pro-ration of bond sale expenses.

13. The parties agree to act in good faith to achieve the purposes of this Agreement.

IN WITNESS WHEREOF, the below signators set their hand this 6th day of October, 1982.

JOSEPHINE COUNTY
BOARD OF COUNTY COMMISSIONERS

Harold L. Haugen, Absent
Harold L. Haugen, Chairman

Mary E. Benedetti
Mary E. Benedetti, Vice Chairman

William F. Ford
William F. Ford, Commissioner

City Manager

ATTEST:

Finance Director

APPROVED AS TO FORM:

Duane Wm. Schultz

JOSE...INE COUNTY PUBLIC WORKS DEPARTMENT

EXHIBIT "A"

March 23, 1982
Page 1 of 3

SURVEY NARRATIVE

LOCATION: NE 1/4 of Section 26 and NW 1/4 of Section 25, T 35 S, R 6 W, WM, Josephine County, Oregon.

PURPOSE: To establish the bounderies of the Merlin Industrial Park.

SURVEYED FOR: Josephine County Public Works Department, Engineering Division, Grants Pass, Oregon

I begin this survey by locating the Section Corner common to Sections 23, 24, 25 & 26 and tracing the existing monuments and pins along the Section line common to Sections 23 & 26, the recorded bearing of which is South 89 16' West.

I then traced the existing monuments and pins along the Section lines common to Sections 25 & 26 and Sections 24 & 25 and proceeded to establish the boundries for the proposed Merlin Industrial Park in three parcels as follows:

Parcel I

Starting at said Section Corner, I surveyed South 0° 09' 11" East, 30.00 feet to the South R/W line of San Francisco Street, the True Point of Beginning of this Parcel, at which I set a 5/8" iron rod to monument the NE corner of the parcel.

I then surveyed South 0° 09' 11" East, 959.48 feet to the SW corner of Lot 214 of the Rogue River Orchards Company, which is monumented with a 3/4" iron pipe per survey C.S. 62-64.

I then surveyed South 0° 09' 11" East, 338.80 feet to the N 1/16 Corner, which is monumented with a 3/4" iron pipe per survey C.S. 62-64.

I then surveyed South 0° 09' 11" East, 657.02 feet to the North R/W line of California Street, the SE corner of the parcel, which is monumented with a 5/8" iron rod.

I then surveyed South 89° 50' 52" West, 1634.29 feet along the North R/W of California Street to it's intersection with the Easterly R/W line of Monument Drive, at which I set a 5/8" iron rod to monument the SW corner of the parcel.

I then surveyed around a 686.20 foot radius curve to the right, 149.14 feet (the long chord of which bears North 13° 22' 40" West, 148.85 feet), along the Easterly R/W line of Monument Drive to a point, at which I set a 5/8" iron rod.

EXHIBIT "A"

SURVEY NARRATIVE

I then surveyed North 7° 09' 08" West, 535.69 feet along the Easterly R/W line of Monument Drive to a point, at which I set a 5/8" iron rod.

I then surveyed North 89° 50' 52" East, 8.43 feet to a point which is monumented with a 5/8" iron rod.

I then surveyed North 89° 50' 52" East, 418.28 feet to a point which is monumented with a 5/8" iron rod per survey C.S. 119-71.

I then surveyed North 0° 45' 27" West, 594.16 feet to a point which is monumented with a 5/8" iron rod per survey C.S. 52-72.

I then surveyed North 26° 33' 25" West, 745.68 feet to a point, at which I set a 5/8" iron rod to monument the NW corner of the parcel. Said point bears South 26° 33' 25 East, 5.50 feet from a point which is monumented with a 5/8" iron rod per survey C.S. 52-72.

I then surveyed North 89° 16' East, 1645.19 feet to the Point of Beginning.

Parcel II

Starting at said Section Corner, I surveyed South 0° 09' 11" East, 2045.30 feet to the South R/W line of California Street, which is monumented with a 5/8" iron rod.

I then surveyed North 89° 50' 52 East, 264.00 feet along the South R/W line of California Street to the True Point Of Beginning for this Parcel, at which I set a 5/8" iron rod to monument the NE corner of the parcel.

I then surveyed South 0° 09' 11" East, 500.00 feet to a point, at which I set a 5/8" iron rod to monument the SE corner of the parcel.

I then surveyed South 89° 50' 52" West, 681.00 feet to a point, at which I set a 5/8" iron rod to monument the SW corner of the parcel.

I then surveyed North 0° 09' 11" West, 500.00 feet to the South R/W of California Street, at which I set a 5/8" iron rod to monument the NW corner of the parcel. Said point bears North 89 50' 52" East, 375.00 feet from the NE corner of Lot 256 of the Rogue River Orchards Company, which is monumented with a 5/8" iron rod.

I then surveyed North 89° 50' 52" East, 681.00 feet along the South R/W line of California Street to the Point of Beginning.

JOSEPHINE COUNTY PUBLIC WORKS DEPARTMENT

EXHIBIT "A"

March 23, 1982
Page 3 of 3

SURVEY NARRATIVE

Parcel III

Starting at said Section Corner, I then surveyed South 0° 09' 11" East, 30.00 feet to the South R/W line of San Francisco Street, which I had previously monumented with a 5/8" iron rod.

I then surveyed South 89° 48' 02" East, 447.88 feet along the South R/W line of San Francisco Street to the True Point of Beginning for this Parcel, at which I set a 5/8" iron rod to monument the NW corner of the parcel.

I then surveyed South 89° 48' 02" East, 440.80 feet along the South R/W line of San Francisco Street to point on the Westerly R/W line of Interstate Highway No. 5, at which I set a 5/8" iron rod to monument the NE corner of the parcel.

I then surveyed South 0° 353' 02" East, 953.27 feet along the Westerly R/W line of Interstate 5 to the SE corner of the parcel, which is monumented with a 3/4" iron pipe per survey C.S. 62-64.

I then surveyed South 89° 47' 53" West, 448.26 feet to a point which is 447.88 feet distant from the West line of Section 25, at which I set a 5/8" iron rod to monument the SW corner of the parcel.

I then surveyed North 0° 09' 11" West, 956.34 feet to the Point of Beginning.

Bearing are based on survey C.S. 128-61.

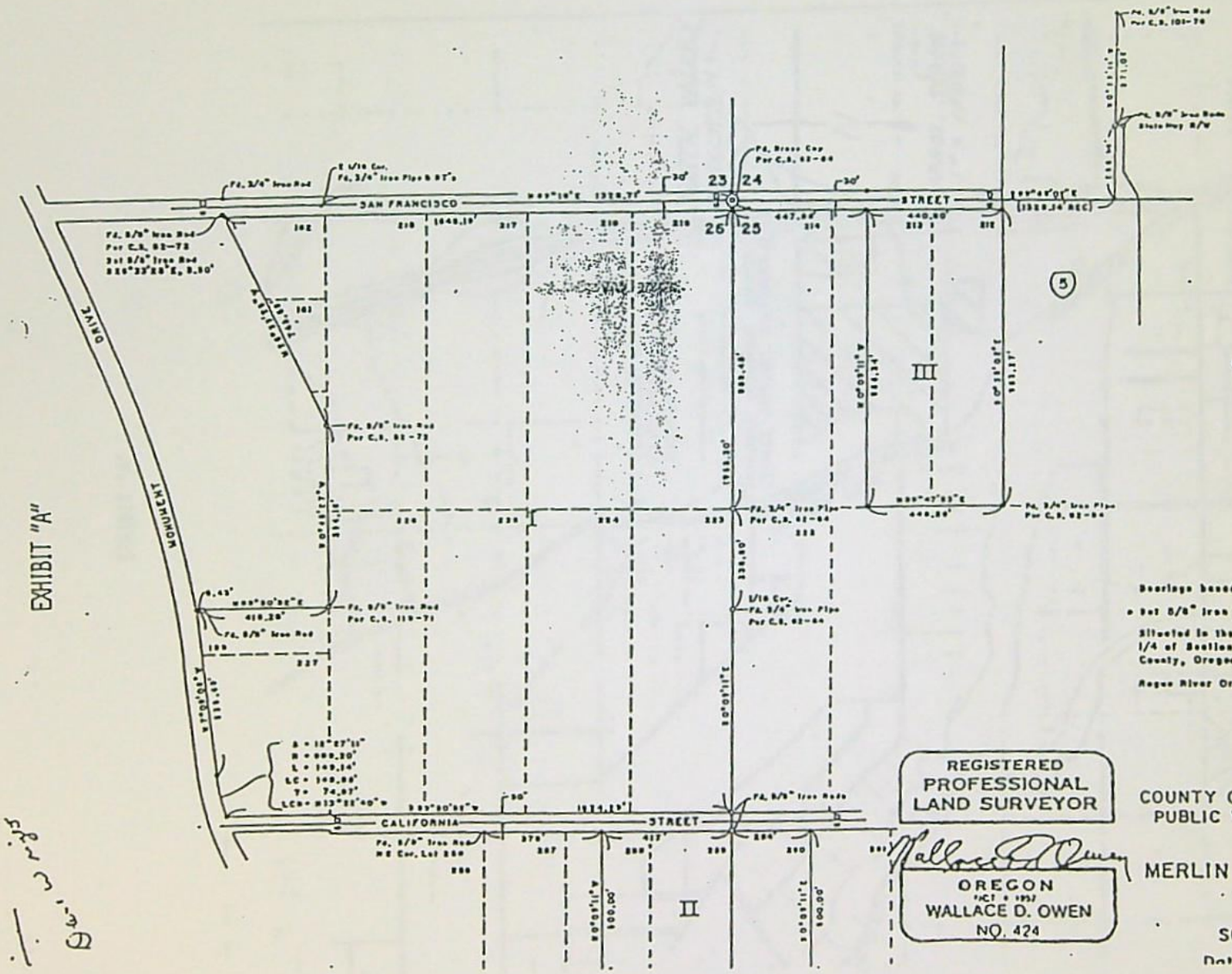
Equipment used was an E.D.M. and Theodolite.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Wallace D. Owen

OREGON
OCT. 4, 1971
WALLACE D. OWEN
NO. 424

EXHIBIT "A"



Bearings based on Survey C.S. 128-81.

• Set 5/8" Iron Rod.

Situated in the NE 1/4 of Section 26 & the NW 1/4 of Section 25, T. 38 S., R. 6 W., W.M., Josephine County, Oregon.

Rogue River Orchard Company's First Subdivision.

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JULY 9, 1957
WALLACE D. OWEN
NO. 424

COUNTY OF JOSEPHINE, OREGON
PUBLIC WORKS DEPARTMENT

MERLIN INDUSTRIAL PARK

SCALE: 1" = 400'

Date: 23 March 1982

EXHIBIT "A"

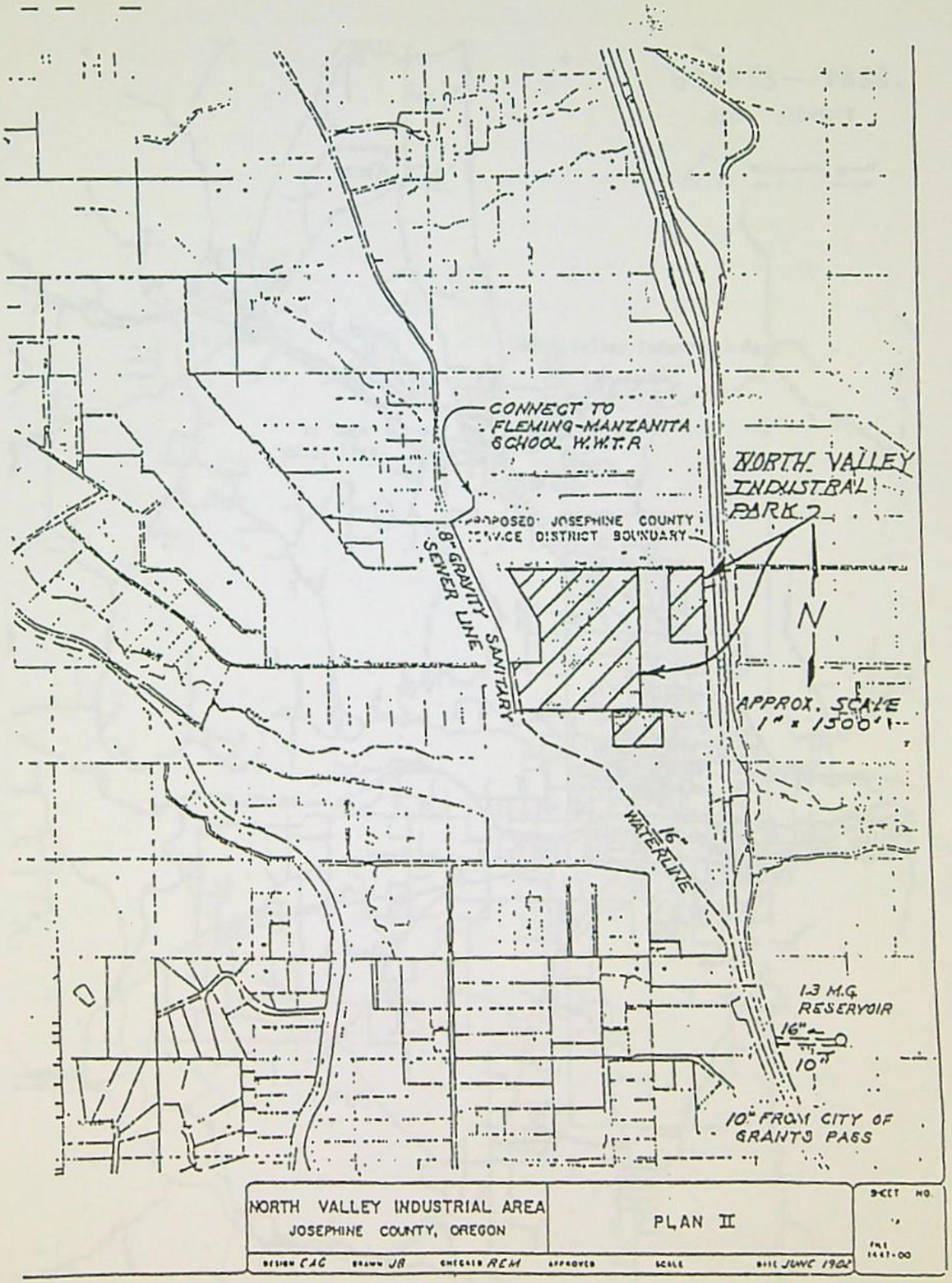
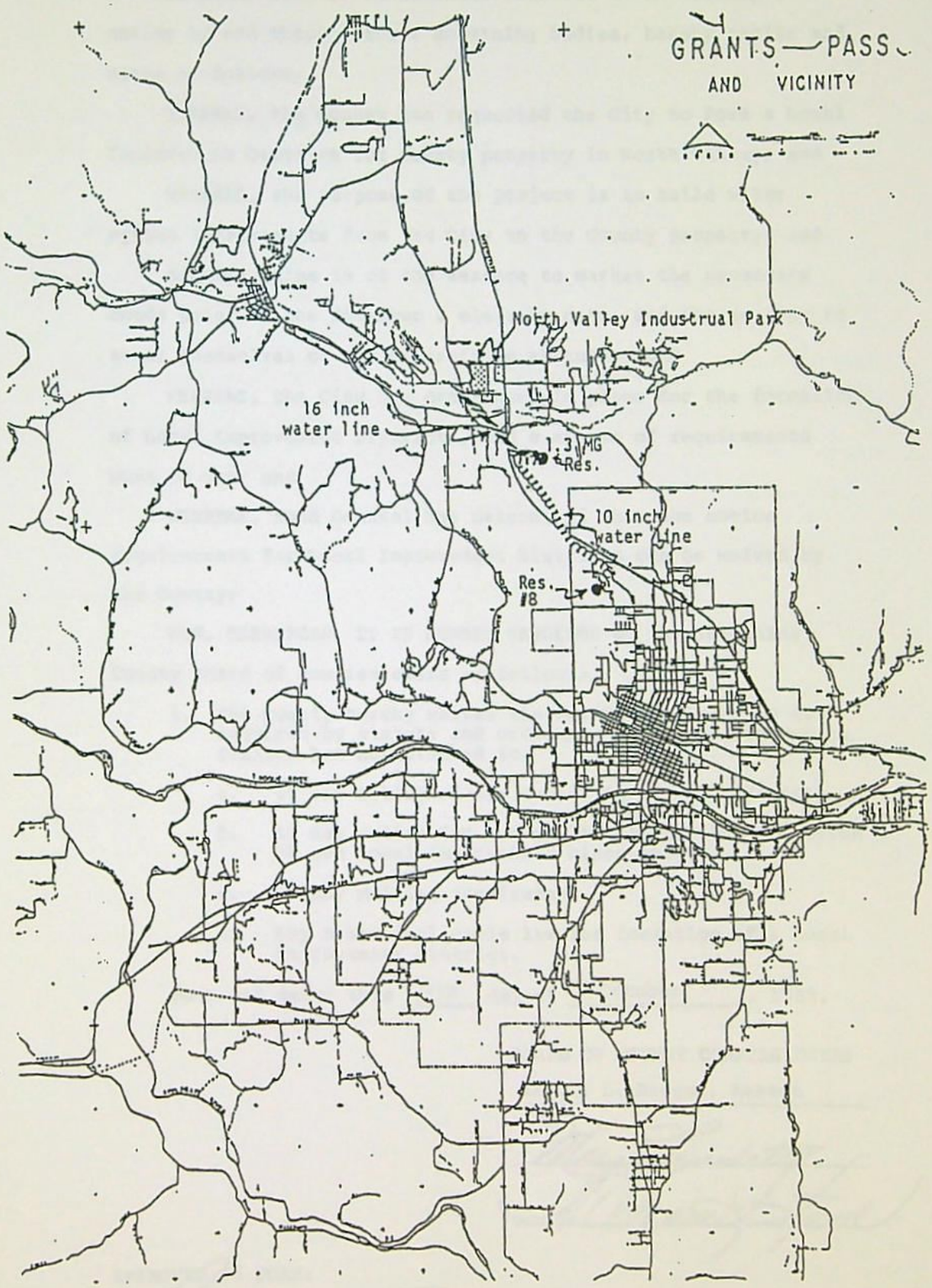

CONNECT TO FLEMING-MANZANITA SCHOOL W.W.T.R.
NORTH VALLEY INDUSTRIAL PARK
PROPOSED JOSEPHINE COUNTY SERVICE DISTRICT BOUNDARY
8" GRAVITY SANITARY SEWER LINE
N
APPROX. SCALE 1" = 1500'
16" WATERLINE
1.3 M.G. RESERVOIR
16"
10"
10" FROM CITY OF GRANTS PASS
NORTH VALLEY INDUSTRIAL AREA
JOSEPHINE COUNTY, OREGON
PLAN II
SHEET NO.
DESIGN CAC
DRAWN JB
CHECKED REM
APPROVED
SCALE
DATE JUNE 1982
FILE 1681-00

EXHIBIT "A"


GRANTS PASS
AND VICINITY
North Valley Industrial Park
16 inch
water line
1.3 MG
Res.
10 inch
water line
Res.
#8

THE BOARD OF COUNTY COMMISSIONERS FOR JOSEPHINE COUNTY
STATE OF OREGON

In the Matter of Formation of the)
North Valley Improvement District) Resolution No. 82-89
and Waiver by County)

The City of Grants Pass, hereinafter referred to as "City", and Josephine County, hereinafter referred to as "County", acting by and through their governing bodies, hereby recite and agree as follows:

WHEREAS, the County has requested the City to form a Local Improvement District for County property in North Valley; and

WHEREAS, the purpose of the project is to build water system improvements from the City to the County property; and

WHEREAS, time is of the essence to market the necessary bonds prior to the November 2 election date, and the parties to avail themselves of the Bancrofting statutes; and

WHEREAS, the City has ordinances in place for the formation of Local Improvement Districts, and a number of requirements must be met; and

WHEREAS, Bond Counsel has determined that the notice requirements for Local Improvement Districts can be waived by the County;

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Josephine County Board of Commissioners as follows:

1. The County hereby waives the notice requirements as required by statute and ordinance which are set out as follows but not limited to:

   a. 10 day filing of the Public Improvement Report.

   b. 10 day notice for the public hearing for formation of the Local Improvement District.

   c. 10 day mailing requirement.

   d. Any other applicable law for formation of a Local Improvement District.

Done and dated this 6th day of October, 1982.

BOARD OF COUNTY COMMISSIONERS

Harold L. Haugen, Absent

Mary Benedetti

William K. Ford

APPROVED TO FORM:

Duane Schultz
County Legal Counsel

To the Honorable Mayor and Council of the City of Grants Pass, Oregon

GENTLEMEN:—The undersigned petitioners do hereby respectfully petition your Honorable Body to

form a local improvement district to install water mains, reservoir pumping facilities and appurtenances to service the North Valley Industrial Park.

Said water system improvements *to be done in conformity with the Charter, ordinances and regulations of the City of Grants Pass.*

Improvement, zone change, etc.

And the undersigned your petitioners aforesaid, do hereby respectfully represent and show to your Honorable Body that it is expedient and necessary to make said water system improvements

Improvement, zone change, etc.

And said petitioners further represent and show to your Honorable Body that they are owners in fee of the lots and blocks set opposite their respective names as hereunto subscribed, to-wit:

NAMES	NAMES OF ADDITION IN WHICH PROPERTY IS LOCATED	NUMBER OF LOT	NUMBER OF BLOCK
Mary E. Daugherty	North Valley Industrial Park	See Exhibit A.	
Allison L. Ford	North Valley Industrial Park	See Exhibit A	

APPENDIX C

REDWOOD SERVICE AGREEMENT

INTERGOVERNMENTAL AGREEMENT
FOR THE
ORDERLY MANAGEMENT
OF THE
GRANTS PASS URBAN GROWTH BOUNDARY AREA

The parties to this agreement are Josephine County (hereinafter County) the City of Grants Pass (hereinafter City), the Harbeck-Fruitdale Sewer District (hereinafter HFSD) and the Redwood Sanitary Sewer Service District (hereinafter RSSSD).

WHEREAS, in the 1980's the County and City, in the spirit of cooperation, adopted the comprehensive plan and zoning ordinances for the Urban Growth Boundary at the request of the City; and

WHEREAS, in 1984 the County and City entered into an intergovernmental agreement that neither the County or City have been able to implement; and

WHEREAS, the County and the City share responsibility for the maintenance, improvement and creation of public facilities and services within the Urban Growth Boundary area of the City of Grants Pass (UGBA); and

WHEREAS, the County and City share administrative jurisdiction for the professional planning and building services within the Urbanizing Area of the City of Grants Pass (UA), which has resulted in confusion and conflict in the administration of policies and standards for urban levels of development within the UA; and

WHEREAS, development within the UGBA over the last 15 years has not always occurred with appropriate levels of area-wide arterial and collector streets and drainage facilities, or the provision of the funding for these improvements, which has resulted in dramatic increases in development burdens and risks to the residents of both the City and the County; and

WHEREAS, the costs associated with the development of urban streets and drainage facilities are extremely high and the parties may not be able to generate fees and assessments to off-set this expense, and because developer contributions are limited by changes in takings law, shifting more of the burden back to the local residents; and

WHEREAS, the County and the City desire to create a basis for future cooperation and cost savings in the provision of urban facilities and services within the UGBA; and

WHEREAS, representatives of the County and City have entered into detailed discussions regarding how to accomplish increased cooperation in the provision of urban

services and facilities in the UGBA, to include water, sewer, planning, building and fire services, and street, storm drain, and park facilities; and

WHEREAS, City owns and operates a municipal water utility with water rights and treatment capacity sufficient to serve all lands within the UGBA and the parties agree that the extension of the water system, together with fire flow capacity, in conjunction with urban levels of development is extremely important for the long-term benefit and safety of the residents of the UGBA; and

WHEREAS, City owns and operates a municipal sewer collection system and treatment facility that presently serves a majority of the residents of the UGBA, and which has the physical and legal capacity to serve the entire UGBA in an efficient and cost effective manner, to include the collection and treatment of effluent from the RSSSD; and

WHEREAS, there are substantial planning, administrative and fiscal advantages to be gained by consolidated management of sanitary sewer services within the entire UGBA; and

WHEREAS, the resulting planning and fiscal problems associated with the improvement of urban services and facilities are now too great to be effectively addressed by one jurisdiction without significant participation and cooperation from the other; and

WHEREAS, it benefits all of the citizens of Josephine County and Grants Pass when the jurisdictions work together using their resources to meet their responsibilities in an equitable and efficient manner; and to provide the most cost effective level of services and facilities to both the UGBA and the rural areas of Josephine County; and

WHEREAS, it is the intent of this agreement to implement a cooperative agreement for the performance of urban planning and development functions and activities within the UGBA pursuant to the authority contained in Oregon Revised Statutes, Chapter 190; and

WHEREAS, it is the further intent to comply with the requirements of Oregon Revised Statutes, Chapter 195, regarding the creation of urban service agreements between local governments and special districts to govern the provision of urban services;

NOW, THEREFORE, the parties agree as follows:

I. PURPOSES OF THE AGREEMENT

1. To enable the County and City to plan for and provide urban services and facilities in a timely, orderly and cost effective manner within the UGBA.

2. To enable the County and City to provide an effective transition from rural levels of services and facilities to urban levels of services and facilities within the UGBA.

3. To improve government service to the residents of the UGBA by providing a single, convenient place to obtain information, applications and permits for land

use developments, and by assuring the uniform and fair administration of a single set of permit procedures and development standards and policies.

4. To enable the County and City to work together to encourage the transition from rural to urban level of services.

5. To enable the City to provide the urban level of services and facilities required as the population in the UA increases and the Citizens request them in accordance with City policies.

6. To ensure the responsibilities for the costs of providing urban level services to the UA are allocated according to the benefits received and impacts as determined, permitted, authorized or required by state law and the Charter and ordinances of the City of Grants Pass.

II. DEFINITIONS

1. Grants Pass Urban Growth Boundary Area (UGBA). All land within the Urban Growth Boundary to include the City of Grants Pass as designated on the Comprehensive Plan Map and as hereinafter amended.

2. Land Use Regulations. Any local government zoning ordinance, land division ordinance adopted (and as amended) under ORS 92.044 or 92.046 or similar general ordinance establishing standards for implementing a comprehensive plan which is applicable to the UA.

3. Land Development Regulations. Standards, specifications and conditions under which an authorized use of land may be made.

4. Category 1 Development. Development within the UA on an authorized lot or lot of record existing as of the effective date of this agreement which is:

   A. A new single-family or one duplex development which is beyond 100 feet from the nearest water main; or

   B. A residential remodel; or

   C. A lot line adjustment; or

   D. A partition which does not create more than one new lot from a parent parcel within a ten year period and which is beyond 300 feet from the nearest water main; or

   E. An expansion, up to a total of 25%, of an existing commercial, industrial or public use and associated structures, which is beyond 100 feet from the nearest water main and which does not include a different non-conforming use; or

F. A change in use from a previously permitted use to a use permitted under the City's Land Use Regulations of the same or lesser intensity and which does not require or request a new connection to City water or sanitary sewer service.

5. Category 2 Development. All development within the UA not classified as Category 1 Development pursuant to this agreement.

6. Urban Area Planning Commission. The review body created by the Josephine County Board of Commissioners and the Grants Pass City Council to consider land use issues within the UGBA.

7. Urban Service. That level of service generally provided to residents within a city including, but not limited to, sewage collection, treatment and disposal; water supply and distribution; storm drainage, streets and roads, parks and open space, police and fire protection.

8. Urbanizing Area (UA). That area within the Urban Growth Boundary that is not part of the City of Grants Pass.

III. TRANSFER OF AUTHORITY

1. The County hereby transfers and assigns to the City, and the City hereby accepts, all of the County's authority to provide and manage planning and building services and facility financing and development within the UA.

2. The City is hereby vested with the exclusive authority to exercise the County's legislative and quasi-judicial powers, rights and duties within the UA and to apply the City's Comprehensive Community Development Plan for Grants Pass and the Urbanizing Area, the Comprehensive Plan and Zoning Maps, Land Development Code, and Urbanization Policies and Procedures as now or hereinafter adopted or amended by the City.

3. The City may at any time during the term of this agreement elect to:

   A. Adopt the Comprehensive Community Development Plan for the Grants Pass and Urbanizing Area for the UA;

   B. Adopt uses for residential properties as set forth in the Development Code for the City of Grants Pass;

   C. Repeal all conditional use land uses;

IV. LAND USE MANAGEMENT

1. As authorized by ORS 190.010(4) and ORS 215.170, it is hereby agreed the City shall exclusively apply the Comprehensive Community Development Plan for Grants Pass and the Urbanizing Area, as has been adopted or as may be hereinafter be adopted or amended and maintained by the City of Grants Pass within the UA.

2. As authorized by ORS 190.010(4) and ORS 215.170, it is hereby agreed the City shall exclusively apply the City's Development Code, as has been adopted or as may be hereinafter be adopted or amended and maintained by the City of Grants Pass within the UA.

3. All land uses within the UA (Category 1 and Category 2) shall be subject to the City's Land Use Regulations, Land Development Regulations including Development, Building and Utility standards and procedures, except Category 1 developments shall not be required to execute an agreement for future annexation or to extend water as a condition of development unless annexation or extension is otherwise required by state statute or administrative rule.

4. The County and City shall jointly adjust the Grants Pass Urban Growth Boundary using the procedures currently contained in Section 13.6 of the Grants Pass and Urbanizing Area Comprehensive Community Development Plan Policies, or as hereafter mutually modified by the two governing bodies.

5. The Joint Urban Area Planning Commission shall be composed by an equal number of County/City appointees who are residents of the UGBA. The City, however, shall be responsible for the administrative functions of the commission.

6. Within the UA the City shall:

   a. Administer and enforce the Land Development Regulations, using its Code and implementation procedures;

   b. Issue building, development, and other permits and provide for site inspection necessary for the administration of the Land Development Regulations;

   c. Update fees for Land Development Regulations, permits, processing, inspections, appeals, enforcement, user and utility fees as necessary to recover costs and implement and manage urban services required by the State Planning Goals or ordinances and resolutions of the City.

   d. Update, establish or manage System Development Charges, utility charges, impact fees, and manage local improvement districts as authorized by state law.

V. NOTIFICATION AND APPEALS

1. **QUASI-JUDICIAL DECISIONS.** The City shall give the County written notice of all land use, limited land use and expedited land division decisions in the UA in the same manner as required by Oregon Law for adjacent property owners. The County shall be deemed to have automatic party status regarding all such decisions for the purposes of standing for appeals. Quasi-judicial land use and limited land use development decisions made by the City's Director or Hearings Officer or the Urban Area Planning Commission may be appealed according the City's Land Use Hearing Rules. The City may provide staff support for any administrative or judicial review of decisions regarding the application of Land Use Regulations to land within the UA.

2. **LEGISLATIVE DECISIONS.** The City agrees to provide written notice of all proposed legislative actions to the County at least 45 days prior to the public hearing at which the action is first considered. The County shall be deemed to have automatic party status regarding all such decisions for the purposes of standing for appeals.

VI. ANNEXATION

1. All Category 1 developments within the UA which are required to connect to sanitary sewer or municipal water by state statute or administrative rule, or which request such connection, shall be subject to a service and annexation agreement.

2. All Category 2 developments shall require service and annexation agreements.

3. Prior to the approval of any Category 2 Development, the City shall either annex the land contained within the development or enter into an annexation agreement requiring annexation within 12 months from the date of final approval of the development. In the latter case, the City shall annex the lands within the 12 month time period.

4. If annexation cannot occur as provided in paragraph 3 above because of conflicting legal requirements, all of the other provisions of this agreement will operate as if annexation has occurred at the time the City provides any municipal service or facility, or obtains a service and annexation agreement, whichever occurs first.

VII. BUILDING AND SAFETY

1. The County hereby transfers and the City hereby accepts responsibility for providing building, electrical, plumbing, mechanical, and similar codes, including but not limited to: filing and complying with all applicable statutory requirements, assuring effective programs throughout the UA; providing all personnel, management, structures, oversight, and financial systems necessary to provide

all code enforcement in the UA; and authority for adoption, amendment, and updates for all codes applicable in the UA.

2. The City shall give the County first preference for any contracting for building related services so long as the County conforms to the City's contractual requirements and policies as the same apply to other contractors.

VIII. PUBLIC SAFETY SERVICES

1. Unless otherwise provided under Section VI.4 of the Agreement, the City will be responsible for the level of Public Safety Services (police and fire) within the City limits as they exist now and as are hereafter modified and may provide fire and police services per individual contractual agreements with specific properties.

2. Unless otherwise provided under Section VI.4 of the Agreement, the County will be responsible for providing police services within the UA.

IX. WATER

The County hereby transfers and the City hereby accepts exclusive responsibility and authority for the planning, administration and management of domestic water supplies for properties within the UA, including (but not limited to) the following: the permitting, authorizing, granting or providing water use for domestic, industrial, residential, fire flow, or commercial purposes within the UA.

X. PARKS

1. **PARKS DEVELOPMENT COMMISSION.** In cooperation with the Josephine Parks and Recreation Foundation, the Urban Area Planning Commission shall serve as the Parks Development Commission (PDC) in the planning and development of neighborhood and community parks within the UA. Within 60 days from the execution of this agreement, the City and County shall each designate at least one employee to act as joint staff to the PDC and hold an organizational meeting. The PDC shall review the 1984 Parks and Recreation Master Plan and recommend to the City and County a reviewed plan, with or without proposed modifications, to include a determination of the number of acres of developed parks needed and desirable for the UA, and how existing public or semi-public lands should be recognized for park purposes under the plan. The PDC shall meet at least semi-annually to develop and implement the Parks and Recreation Master Plan.

2. **COUNTY RESPONSIBILITIES.** It shall be the responsibility of the County under this agreement to:

   A. Provide regional natural based parks.

B. Complete a county-owned land inventory and analysis within one year of this agreement. This analysis shall include recommendations from the County regarding potential sites to be used, traded, sold, or exchanged for acquisition and development of neighborhood and community parks within the UA. The County will assist in the acquisition and provision of park lands for neighborhood and community parks to serve the UA. The county shall submit copies of the of the inventory and analysis to the City Manager and the PDC.

3. **CITY RESPONSIBILITIES.** It shall be the responsibility of the City under this agreement to:

A. Provide neighborhood and community parks.

B. Plan, administer, develop and operate neighborhood and community parks in the UA as sufficient lands become available for park development consistent with this section.

XI. STREETS AND DRAINAGE

1. **JOINT MANAGEMENT.** The County and City shall be jointly involved in the maintenance of current roadways, the funding for improvements, and the coordination of future growth in the Urban Growth Boundary Area with adequate capacity street and storm drainage facilities. Numerous improvements are currently recommended and more will be necessary to meet the transportation and drainage needs of the UGBA as population increases. It is understood between the parties that neither jurisdiction has the financial resources to meet the street requirements as identified in the Master Transportation Plan (MTP) or the drainage requirements contained in the Urban Area Drainage Plan. Therefore, a fundamental point of agreement between the parties is that new and expanded sources of funding will be necessary in order to provide adequate street and drainage facilities within the UGBA, and that both jurisdictions must share responsibility for the maintenance and provision of urban street and drainage facilities.

2. **MASTER TRANSPORTATION PLAN.** The classifications for the various streets within the UGBA as shown in the Grants Pass Urban Master Transportation Plan (MTP) shall be utilized except as noted in the attached local collector and residential street inventory. The City shall hereafter be solely responsible for the maintenance, amendment, adoption and re-adoption of the MTP, including the Local Area Transportation Plan.

3. **ARTERIALS AND COLLECTORS.** Responsibility for all maintenance, repair, construction, and improvement for arterial and collector streets shall be apportioned between the City and County as follows:

A. The County shall be responsible for all arterial and collector roads and drainage currently or hereafter identified as "county roads" in the MTP.

B. The City shall be responsible for arterial and collector streets and drainage currently or hereafter identified as "city streets" in the MTP.

4. **LOCAL COLLECTORS AND RESIDENTIAL STREETS.**. Responsibility for all maintenance, repair, construction and improvement for local collector and residential streets shall be apportioned between the City and County as follows:

A. The County shall be responsible for local collectors and residential streets located outside the City until jurisdiction transfers to the City pursuant to this agreement.

B. The City shall be responsible for all County and City local collectors and residential streets located inside the City starting on the date of this agreement, except for Beacon Drive from Madrone to Hillcrest.

C. The County shall be responsible for Beacon Drive from Madrone to Hillcrest.

5. **FUTURE TRANSFER OF RESPONSIBILITY.** Responsibility for further maintenance, repair, construction and improvement of streets shall transfer from the County to the City upon the occurrence of any one of the following future events:

A. When a County arterial or collector street or Beacon Drive located within the City is constructed or improved to full City development standards; or

B. Except for Beacon Drive, when the street right-of-way for a local collector or residential street is annexed into the City (for the purpose of this subsection, the City shall annex local collector or residential right-of-way whenever the right-of-way runs from the annexed development to the city limits); or

C. When a County arterial or collector street located within the UA meets city or county urban standards at the time of annexation, including full curb, gutter, and sidewalk.

6. **DRAINAGE FACILITIES.** Responsibility for the maintenance and improvement of drainage facilities shall be included in the responsibility for the maintenance and improvement of streets.

7. **TRANSFER PAYMENTS.** For local collector and residential streets, not developed to County or City urban standards, which are transferred from the County to the City pursuant to this agreement, the County agrees to pay to the City an annual

sum equal to $9000 per mile of street for 7 years, commencing in the year of transfer for any given street.

8. IMPROVEMENT OF ARTERIAL AND COLLECTOR STREETS AND BEACON DRIVE. Based upon the level of capital improvement funds available to each jurisdiction at the time arterial or collector street improvements, including Beacon Drive, are called for, and in view of other financing opportunities and/or limitations, the City and County agree to work together to improve existing and planned arterial and collector streets, including Beacon Drive, within the UGBA as follows:

   A. The City and County shall jointly pursue alternative sources of revenue necessary to fund the improvement of arterial and collector streets and drainage facilities within the UGBA.

   B. The City shall prioritize capital projects under this Section within the UGBA subject to County review and comment.

   C. The City shall be responsible for all UGBA development reviews, approvals, plan submittals, and authorizations in accordance with City development standards and policies.

   D. Regarding the review and approval of individual land use applications, the City and County shall be jointly responsible for determining whether specific transportation and drainage systems under County responsibility have or will have adequate capacity to serve the proposed development. Adequate capacity shall consider motorized as well as non-motorized transportation alternatives, as well as the condition and capacity of existing storm drainage facilities.

      1. In the event either jurisdiction, or both, determines the applicable transportation or drainage systems have inadequate capacity, the determination shall become the joint City/County position in the City's staff report to the Urban Area Planning Commission and the City Council.

      2. The County shall be responsible for developing the specific conditions for the approval of individual developments involving transportation and drainage systems under County responsibility, and these proposed conditions of approval shall also be included in the City's staff report to the Planning Commission and City Council.

9. OBTAIN RIGHT-OF-WAY PERMITS. The parties shall require and assure permits are secured from the appropriate road authority for utility crossings, encroachments and similar authorizations for facility work occurring within public rights-of-way.

XII. SEWER SERVICES

1. **REVOCATION.** This agreement revokes and replaces all previous agreements between the County, the HFSD and the City, and between the County and the RSSSD.

2. **COUNTY AND DISTRICTS.** The County, the HFSD, and the RSSSD shall:

   A. Amend ordinances and actions of the County and District that may conflict with the terms of this agreement; and

   B. Transfer to the City all funds, records, files, data, and information pertaining to the Districts; and

   C. Relinquish control of all financial and physical assets, real and incorporeal property, and interests therein from the appropriate District to the City; and

   D. Certify to the City that the County and the Districts have no bonded indebtedness or other outstanding debt related to the Districts, except as follows: in the fiscal year 1990-91 Josephine County made an interest free loan of $128,000 to the Redwood District, with the loan to be repaid over a 10 year period at $12,800 per year. The purpose of the loan was to assist the District with the purchase of a wood waste grinder for its sludge composting/recycling program. Repayment of the loan started with the first payment being made to the County in FY 1995-96. The last payment will be due in FY 2004-05. The Redwood District shall repay the loan in full to the County on or before June 30, 2005, with payments at no less than $12,800 per year.

3. **CITY AUTHORITY.** The County, the HFSD, and the RSSSD hereby transfer to, and the City hereby accepts, all responsibility and authority for the planning, administration, operation, maintenance and management of sewer services of the HFSD and the RSSSD for properties located within the respective District boundaries. This authority shall include any and all actions necessary and convenient for the provision of sewer service, to include (but not limited to) the following:

   A. The issuance of permits and the authorization and provision of sewer services for domestic, industrial, residential, or commercial purposes;

   B. Secure the financing needed to provide sewer services, and establish all liens or other devices, deferred payment programs and formats, and otherwise take all actions necessary to assure the financing for the operation, maintenance, extension and expansion of the Districts' sewer systems;

C. Assume and control of each District's financial and physical assets, real and incorporeal property, and any interests therein;

D. Adopt and administer the budgets for each District;

E. Act as the board for the respective Districts in all respects with full responsibility and authority for all aspects of the existence and operation of each District;

F. Adopt and administer sewer standards;

G. Collect and administer all applicable sewer related City fees and fees of the appropriate District, including but not limited to system development charges, user fees and service connection permit fees as established by the City;

H. Collect assessment liens and facilitate bancrofting and the formation of local improvement districts; and

I. Bill and collect monthly user charges and other authorized charges and fees, including the collection of delinquent accounts.

4. **RETENTION OF MONIES.** All fees, charges and other funds collected for costs incurred by the City for sewer services pursuant to this agreement shall be held under the authority of the City as the managing entity for the two sewer districts.

5. **COMPENSATION FOR TRANSITIONAL SERVICES.** The parties agree to compensate the County for certain transitional services by the Josephine County Public Works Department to the RSSSD as specifically called for in this paragraph, during the three year period following the date this agreement is executed. During the first year of transition the County shall provide engineering and budgetary services to the City at the same level as the year immediately preceding the transfer. In exchange for these services the City shall pay the County the sum of $72,000. In the second and third years of transition the County agrees to provide engineering and budgetary services as requested by the City, but such services shall be capped by the amounts of $36,000 for the second year and $18,000 for the third year. Services shall be billed and paid at the actual costs incurred at the hourly rates existing between the Public Works Department and the District as of January 1, 1998 until the cap is reached. The parties may thereafter extend or modify the terms of transitional services and fees by mutual agreement.

6. **SERVICE OUTSIDE THE UGBA.** The City agrees to provide sanitary sewer service to any property within the RSSSD boundary that is outside the Grants Pass Urban Growth Boundary if and only if all of the following conditions are met:

A. The property or the parent parcel from which the property was partitioned or subdivided has been included within the RSSSD from the date of its formation and has a District sewer main on or abutting the subject or parent parcel; and

B. A property assessment for public sewer construction is on file with the RSSSD for a public sewer line on or abutting the subject parcel or the parent parcel from which the property was partitioned or subdivided.

In such cases the County shall be the lead agency for the review and approval of development applications for the property, and County development and building standards and procedures shall exclusively govern. The City's sewer service agreement shall not be conditioned upon the landowner's performance of any on or off-site improvements, but may require the execution of an annexation agreement. All fees and charges for servicing such a property shall be determined using the same method or formula used for computing fees and charges for properties located within the applicable District boundary that are inside the Urban Growth Boundary. Actual fees and charges may be higher for service outside the Urban Growth Boundary as long the fees and charges are computed using the same method or formula applied within the Boundary.

7. **HOLD HARMLESS.** As of the effective date of this agreement, each District shall indemnify and hold harmless the City and County for any act or omission of the City or County on behalf of the respective District which results or may reasonably result in liability to the City or County, in so far as such act or omission does not constitute official misconduct, malfeasance or is contrary to law.

8. **INSURANCE.** As of the effective date of this agreement, the RSSSD shall no longer be insured under the policies or provisions of the Josephine County Self-Insurance Program for liability or workers compensation or any purchased insurance policies purchased by Josephine County.

9. **WORKERS COMPENSATION.** The County shall be responsible for workers compensation coverage and all costs related thereto of the RSSSD for occurrences before the effective date of this agreement. The city shall be responsible for workers compensation coverage and all costs related thereto for occurrences on or after the effective date of this agreement.

10. **COSTS OF PENDING CLAIMS.** Prior to the effective date of this agreement, the RSSSD shall reimburse the County for its administrative costs, contract legal fees and expenses and any settlement awards incurred in the resolution of any existing RSSSD claims not related to workers compensation. On or after the effective date of this agreement, the RSSSD shall reimburse the County for contract legal fees and expenses and settlement awards incurred in the resolution of any claims that carryover, and the County agrees to administer all

remaining claims to final resolution and to bear the administrative costs connected therewith.

11. **DISSOLUTION.** Proceedings to dissolve either District shall not commence without the mutual agreement of the parties to this agreement except as provided for annexation or incorporation as set forth in ORS Chapter 451 or as hereafter amended by the legislature.

12. **TERMINATION.** Notwithstanding the provisions for termination contained in Section XV below, the Sewer Services section of this agreement, to include any other provisions of this agreement necessary to the function of the Sewer Services section, shall not be terminated without the written consent of the City if debt is outstanding on improvements specifically benefitting the District.

XIII. FINANCING AUTHORITY

The County grants, and the City accepts, the authority to raise and collect monies that are necessary or convenient to provide, construct, improve and maintain UA public facilities and services, subject to the requirements and procedures of Oregon law. This authority shall include, but is not limited to, the formation of local improvement districts and similar service districts and special assessments, and to exercise any and all powers now or hereafter granted to the County through waivers of remonstrance to lands within the UA, and to secure financing and establish liens or other devices, deferred payment programs and formats, and otherwise take all actions necessary to assure the timely, orderly and efficient arrangement of public facilities and services within the UA. This authority shall also include the right to require the signing of service and annexation agreements, to include compliance with City development, building, and planning standards, prior to the provision of City owned or managed services to specific properties.

XIV. MAINTENANCE AND AMENDMENT

This agreement may be amended any time with the consent of the parties, provided 30 day written notice of the intention to amend is given to the Department of Land Conservation. Modifications in this agreement shall be deemed consistent with the applicable Comprehensive Plan and its various elements.

XV. REVIEW AND TERMINATION

1. **REVIEW.** The parties agree to review this agreement two years after the date of execution, and thereafter at the request of any party.

2. **TERMINATION.** Except as noted in Section XII(11) regarding Sewer Services, this agreement may be terminated by the County or City at any time after one year from the date of execution by the tender of written notice of the intent to terminate. In the event a termination notice is tendered, the following procedures shall apply:

A. A public hearing by the governing body tendering the notice shall be scheduled. The governing body shall thereupon furnish the other governing body and the Department of Land Conservation and Development with formal notice at least 90 days prior to the date of the hearing;

B. The County and City shall seek resolution of any differences during the 90 day notice period pursuant to Section XVI below. The 90 day period may be extended at the election of the noticing body;

C. Termination of the agreement shall not occur until at least 90 days after formal action is taken by the governing body to terminate the agreement;

XVI. DISPUTE RESOLUTION

In the event a dispute occurs regarding the operation or interpretation of this agreement, or the need for amendment, and the parties come to an impasse regarding the dispute, the governing body of either the County or City may refer the dispute to a resolution committee. The resolution committee shall be comprised of two County Commissioners, two City representatives chosen by the City Council and the Chair of the Urban Area Planning Commission. The committee shall immediately proceed with non-binding mediation. The Resolution Committee may elect to proceed with binding arbitration by unanimous agreement.

XVII. OTHER DOCUMENTS

The County shall amend all ordinances and other official actions of the County to the extent they conflict with the terms of this agreement. In addition, the County shall deliver to the City all of its existing UA land use files, and all records, data, and information pertaining to the creation, approval, or continuing rights of any community water system currently authorized by the County in the UA, as the City requests such documents. The City shall honor all outstanding development plan agreements existing between the County and UA property owners, or their successors to the extent required by law.

XVIII. RESCISSION OF OTHER AGREEMENTS

This agreement rescinds or replaces all previous intergovernmental agreements between the County and City dealing with any subject matter covered or affected by this agreement. This agreement also rescinds or replaces all previous agreements between the County and the RSSSD and the County and the HFSD.

XIX. SEVERABILITY

If any term or provision of this agreement or the application thereof to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this agreement and the application of such term or provision to persons or circumstances other than those to which it is held invalid or unenforceable shall not be affected thereby,

and each term or provision of this agreement shall be valid and enforceable to the fullest extent permitted by law.

XX. EFFECTIVE DATE

This agreement shall become effective upon the date the last party executes the agreement as shown below. Until such time as the rights and obligations specified in this agreement become legally operable according to the terms and conditions contained herein, the policies, rules and ordinances in existence on the effective day of this agreement shall remain applicable.

JOSEPHINE COUNTY

Jim Brock Date 8/5/98
Jim Brock, Chair

Harold L. Haugen Date 8/5/98
Harold L. Haugen, Vice-Chair

Fred Borngasser Date 8/5/98
Fred Borngasser, Commissioner

CITY OF GRANTS PASS

Gordon Anderson Date August 4, 1998
Gordon Anderson, Mayor

William A. Peterson Jr. Date 4 Aug 98
William A. Peterson, Jr., City Manager

Joanne Stumpf Date 8/4/98
ATTEST: Joanne Stumpf, Administrative Services Director

HARBECK-FRUITDALE SEWER DISTRICT

Jim Brock Date 8/5/98
Jim Brock, Chair

Harold L. Haugen Date 8/5/98
Harold L. Haugen, Vice-Chair

Fred Borngasser Date 8/5/98
Fred Borngasser, Commissioner

REDWOOD SANITARY SEWER SERVICE DISTRICT

Jim Brock Date 8/5/98
Jim Brock, Chair

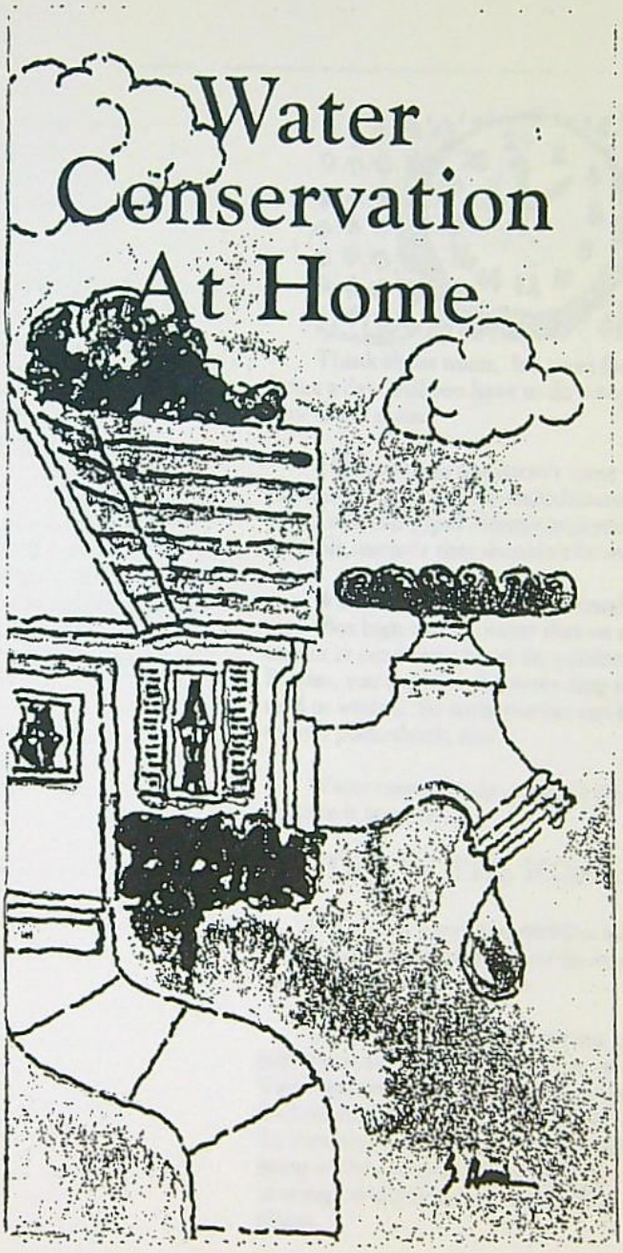
Harold L. Haugen Date 8/5/98
Harold L. Haugen, Vice-Chair

Fred Borngasser Date 8/5/98
Fred Borngasser, Commissioner

APPENDIX D

CONSERVATION PAMPHLET

Water Conservation At Home



Think about water. It's yours for the asking, 24 hours a day. All you have to do is turn a faucet. But now think again.

The water you use doesn't come magically from nowhere. It's a carefully manufactured product — clean, safe and piped directly into your home — a valuable resource that shouldn't be wasted.

Water will recycle itself eventually come what may. But high-quality water that we need and expect in our homes is not an infinite resource. Besides, you're paying for every drop whether it's used or wasted. So conservation can be a solid favor to your pocketbook, too.

Water conservation is a good way of life. Let's practice it together.

SAVING IN THE HOME

Household water conservation not only saves water, it saves energy, too; energy needed to heat water, and to run appliances.

The bathroom is where you can make the most substantial reduction in your personal water use. Two thirds of the water used in an average home is used in the bathroom, mostly for flushing toilets and for showers and baths. A lot of that water may be going to the sewer needlessly, adding to the volume of sewage and putting an extra burden on treatment plants.

TOILETS

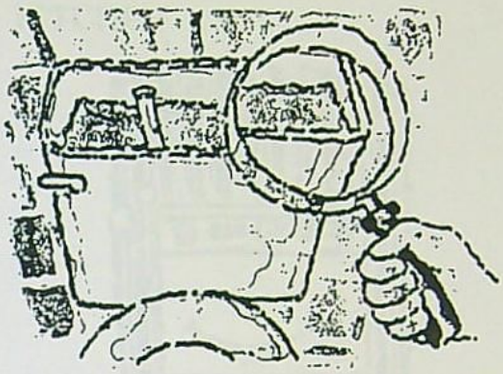
Every time a toilet is flushed, about seven gallons of water goes into the sewer. There are two ways to cut down here — first, don't use the toilet for things it was not meant for; and second, reduce the water per flush.

Toilets should not be used as trash cans to flush away tissues, gum wrappers, cigarette butts, spiders, diapers, or anything else that ought to go in a wastebasket or garbage can. All of us do it at one time or another, but use of the toilet as a wastebasket is just a phenomenal waste of water. Imagine pouring three two-gallon buckets of water on a bitty spider or piece of tissue. Ridiculous!

Most toilets use more water than is really necessary and work just as well with less. So you can put a brick in the tank to displace some of the water — right? Wrong! The extra weight might crack your tank. Besides, the bricks may begin to disintegrate after a while, causing serious and expensive problems in the plumbing.

Use a plastic soap or laundry bottle instead. It's safe, easy, and inexpensive. Fill a few bottles with water to weight them and put them in the tank.

CAUTION: Don't put the bottles where they'll jam the flushing mechanism. And be sure you don't displace so much water that you have to double-flush to get the thing to work. Double flushing wastes more than you save.

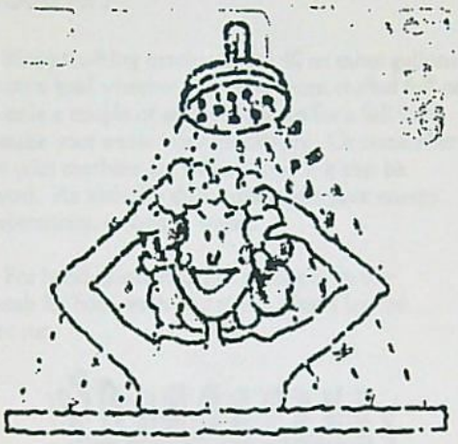


Toilets are notorious for their hidden leaks. They can waste hundreds of gallons a day undetected. Leaks occur when the toilet is out of adjustment or when parts are worn, so it's important to check it periodically. It's not hard or complicated.

Most toilet leaks are at the overflow pipe or at the plunger ball. If it's at the overflow, the water level is usually too high, although the overflow pipe sometimes may leak below the waterline. Gently bend the arm until the valve shuts off the water about a half inch below the top of the overflow pipe. Sometimes the valve is worn and will run like a leaky faucet and must be replaced. If you're an experienced "do-it-yourselfer" you can do the job. Otherwise, call a plumber.

Plunger-ball leaks aren't as easy to spot. The best way to check is by dropping a little food coloring into a tankful of clear water and waiting to see if the color shows up in the bowl. If it does, you probably have a leak at the plunger ball, either because the ball needs replacing or because the mechanism is out of alignment. This is a relatively simple repair for a "do-it-yourselfer."

SHOWERS



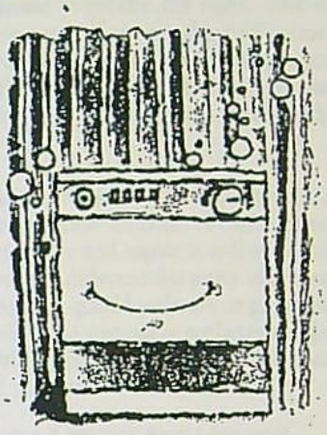
People used to think showers were less wasteful than tub baths, period. That failed to take into consideration the fact that many of us spend 10 to 20 minutes or more in the shower. Since most showers pour out between 5 and 10 gallons per minute, that can add up in a hurry.

There's no hard-and-fast rule. It's more a matter of self-control. A partially filled tub uses far less water than a long shower, while a short shower uses less than a full tub. Time yourself next time you step under the spray. The odds are you really don't need to stand there that long, nor do you need the shower running at full, hot blast.

SHAVING, TOOTHBRUSHING

Don't leave the water running. Run as much as you need, then turn off the tap until you need some more. Water running unused goes straight down the drain. It adds up to a whale-of-a-lot of wasted water.

KITCHEN



Automatic dishwashers claim the most water in kitchens, about 12 gallons per run. The secret here is to make sure the washer is fully loaded before you turn it on, because it's going to take that 12 gallons whether there's a dinner full of dishes or just a couple of cups.

Don't bother rinsing the dishes in the sink before you put them in the dishwasher. Scrape them clean and let the machine do the rest.

Are you the dishwasher in your household? Remember not to wash them with the water running. A sinkful of wash water and one of rinse water will do the job just as well.

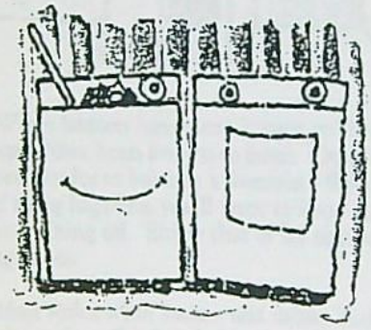
Don't let the faucet run when you scrub vegetables or prepare other foods, either. Put a stopper in the sink instead.

And for a cold drink of water, don't stand there letting it run endlessly. Store a jug of ice water in the refrigerator.

LAUNDRY

Many washing machines use 40 or more gallons of water a load whether you have them stuffed full or with only a couple of socks. Save up for a full load and make your water work efficiently. Or remember to set your machine for a lesser load if it can be adjusted. As with the dishwasher, you save energy and electricity, as well as water.

For hand laundering put a stopper in the washtub for both wash and rinse. Don't let the faucet run.



LEAKS

A little leak loses lots! Just a slow drip can add up to 15 or 20 gallons a day, while a 1/16-inch faucet leak wastes 100 gallons in 24 hours!

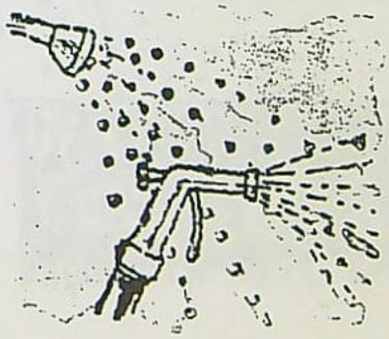
Most leaks, aside from toilets, are in faucets and are most commonly caused by worn washers. Check all the faucets in the house once or twice a year. If any of them drip after you've turned them off firmly, turn off the supply line, take the faucet apart and replace the washer. Usually it's not hard, although some faucet designs do present a challenge. Any good household do-it-yourself book offers easy-to-understand advice if you need it.

It's important to get the size right. The washer has to fit inside a sort of cup on the valve stem and spread out to the edges when it's screwed down. If the drip is still there when you're done, you may have something else wrong. Get in touch with a plumber.

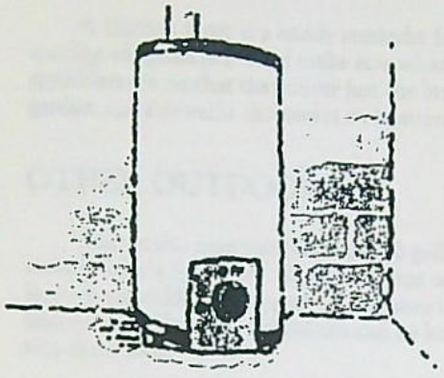
If the leak is in one of those faucets with a single lever or "joystick" to control both hot and cold, the disassembly and repair is still relatively simple, but entirely different from the valve stem-and-washer type. A good hardware or plumbing supply store will have necessary replacement parts and can probably direct you to a good instruction source, too, if you need it.

WATER-SAVING DEVICES

Many different kinds of water-saving devices and fixtures are on the market, ranging from special reduced-flow shower heads to water-thrifty shallow-trap toilets. A variety of shower head adapters also is available to cut down in existing fixtures, although a little self-control in not turning faucets on full blast does just about as well at no cost at all. See a good plumbing supply or hardware store for advice, particularly when it's time to replace an old fixture in the house. Try to get one that doesn't use as much water.



SHUTOFF VALVES AND EMERGENCIES



Water heaters have been known to blow out and pipes have been known to burst. Occasionally, a faucet decides to become a fountain. When this sort of thing happens, you'll want to know how to turn everything off. Either that or lay in a supply of wading boots.

Most sinks, wash basins, and toilets in the house have shutoff valves below them that cut off water to that particular fixture. The hot-water heater also has a shutoff valve to cut off hot water to the whole house. Unfortunately, most of us don't have shutoffs for bathtubs and showers, because the plumbing is usually behind the wall. Check your house now and identify all of those shutoff valves; see if they work.

Most importantly, check for the main shutoff valve that turns off the whole house. It's usually located where the water pipe comes into the house. Check to see if you have one that works. If you don't, or it doesn't, ask a plumber to stop by and correct the situation.

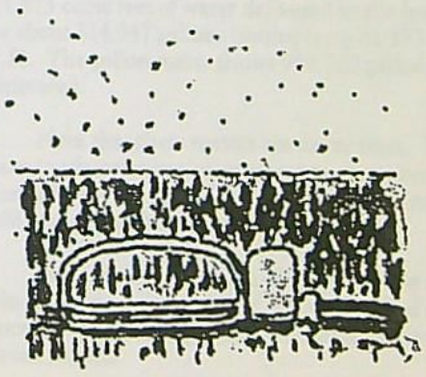
THE GREAT OUTDOORS

States that enjoy warm weather during most of the year often find half, or more, of the water piped into homes goes right back out through hoses onto lawns and gardens. Northern states find the same in summer months.

It's a fact of life that when more water is used outside, more is wasted there. But you don't have to let your lawn turn brown or the car turn dusty to conserve water. Use common sense instead.

The basic principle of lawn and garden watering is not to give them more than they need. Don't follow a fixed schedule. Water when the grass or plants show signs of needing it. During a cool or cloudy spell, you don't need to water as often.

Heat and wind will rob your lawn of water before they can use it. Avoid watering on windy days and you'll avoid having most of the water go where you don't want it. Water in the cool of the day, both to avoid excess evaporation and the chance of harming the lawn. Weeds are water thieves, too, so keep the garden free of them.



Let water sink in slowly. Lots of water applied fast mostly runs off into gutters. Also, if you let water sink deep, the lawn will develop deeper roots and won't need watering as often, as well as being more resistant to disease and wear.

A kitchen timer is a handy reminder for turning off sprinklers. And make sure when the sprinklers are on that they cover just the lawn or garden, not sidewalks, driveways and gutters.

OTHER OUTDOOR USE

Your garden hose can pour out 600 gallons or more in only a few hours. Remember that when you leave the sprinkler running all day or leave the hose unattended. Thousands of gallons can be lost in a very short time.

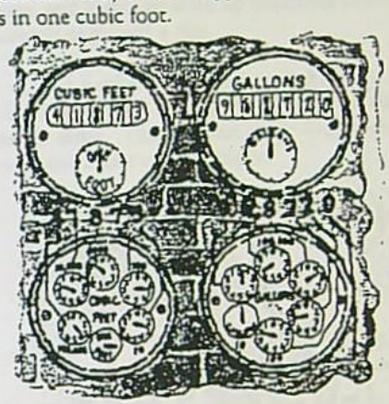
When washing the car, use a bucket for soapy water and use the hose only for rinsing. Running water in the driveway won't get the car any cleaner.

Another water waster is using the hose to sweep away leaves. Use a rake and broom to clean up sidewalks, driveways and gutters.

MEET YOUR METER

Your water meter is the best detective in the home. It can tell whether you have sizable leaks, as well as how much water various appliances are using. All you have to do is learn its language.

Most meters record gallons just as your car's odometer records mileage. However, some show cubic feet of water used. For these, you can multiply the figure shown by 7.5, the approximate number of gallons in one cubic foot.



The cubic-foot meter on this page shows 41,873 cubic feet of water delivered to the home — or about 314,047 gallons (multiplying 41,873 by 7.5). The gallon meter shows 968,720 gallons delivered.

Note that these meters are never reset. To find how much water you've used in any given period, just subtract the number of gallons used on your last bill from the current meter reading.

Some meters come in a circular-reading style. No problem. Read each dial, in turn, to find the total. If the pointer is between two figures, read the lower number.

Now, go do some checking:

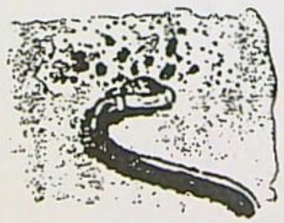
1. If it's summer, turn on the sprinkler and watch the meter dial move for precisely one minute. Multiply the number of gallons times 60 for the quantity used per hour. Then estimate how long you usually leave the sprinkler running. You may be shocked at the hundreds of gallons going onto the lawn and garden every week.

2. Wait for a member of the family to step into the shower and follow the same timing routine. Check the volume consumed in one minute and multiply by the number of minutes a normal shower in your family takes.

3. Watch the meter dial through a full fill cycle on the automatic washer. And remember that each wash gets more than twice as much water for both wash and rinse cycles.

4. For leak detection, turn everything off carefully, so no water is being used anywhere in the house. Then check the position of the meter dial for about 15 minutes. If it hasn't moved, congratulations! You have a relatively water-tight home. But if it has, start checking hose connections, faucets and toilets (with food coloring, remember?).

Sometimes a meter located outside of the house, at curbside, will indicate a leak when everything inside seems tight. The leak may be hidden underground in the pipes. Call a plumber for advice.



A GOOD WAY OF LIFE

Water conservation is a good way of life. Remember where water comes from and where it goes. A toilet flush uses up to seven gallons, water taps run at about five gallons a minute while waiting for hot or cold, showers use five to ten gallons a minute, and leaks can soak up hundreds or even thousands of gallons a day.

It isn't hard to conserve water, it doesn't change our lives drastically. It's mostly a matter of using good common sense. Think about water —and when you do — think about conserving it.

APPENDIX E

CURTAILMENT ORDINANCE

ORDINANCE NO. 5079

AN ORDINANCE ADOPTING A WATER CURTAILMENT PLAN FOR COORDINATING CITIZEN RESPONSE TO VARIOUS LEVELS OF WATER SHORTAGE.

WHEREAS:

1. The State of Oregon Water Resources Department may require that municipal water suppliers submit a water management and conservation plan as a condition of their water use permit; and

2. The water management and conservation plan shall include a water curtailment strategy; and

3. The water curtailment strategy shall define at least three stages of alert, define predetermined levels of shortage that will trigger each stage of alert, and list specific standby water use curtailment actions for each stage of alert; and

4. The existing City of Grants Pass Municipal Code 8.04.070 contains only general provisions for emergency water conservation procedures instead of specific elements as required by the Oregon Water Resources Department.

NOW, THEREFORE, THE CITY OF GRANTS PASS HEREBY ORDAINS, that the language as set forth in Exhibit "1", which is attached to and incorporated herein, replaces Chapter 8.04.070 of the Grants Pass Municipal Code.

ADOPTED by the Council of the City of Grants Pass, Oregon, in regular session this 3rd day of October, 2001.

SUBMITTED to and Approved by the Mayor of the City of Grants Pass, Oregon, this 8 day of October, 2001.

Len Holzinger, Mayor

ATTEST:

Joanne M. Krumpe
Administrative Services Director

Date submitted to Mayor: 10/08/01

EXHIBIT "1"

CHAPTER 8.04

GENERAL PROVISIONS

8.04.070 Water Curtailment Procedures.

A water shortage alert may be declared and water curtailment measures implemented as follows:

1. The City Manager of the City of Grants Pass is authorized to declare a water shortage alert according to one of three alert levels upon determination that a water shortage condition exists. The alert levels are described below along with a definition of the specific conditions that trigger each level of alert.

   A. Level One Alert – Potential Water Supply Shortage. A serious drought condition is occurring or is likely to occur in the region or Rogue River flow rates are measured or projected to be below a 1-in-10 year low flow level, or the County or State has declared a drought condition.

   B. Level Two Alert – Water Supply Shortage. The City's ability to deliver water is not adequate to meet demand due to supply, treatment, storage, or pumping restrictions, or extended treatment plant operation is required, and storage cannot be maintained.

   C. Level Three Alert – Critical Water Supply Shortage. The water supply is interrupted.

2. Upon declaration of a water shortage alert, water curtailment measures shall be put into effect immediately subject to subsequent ratification or rejection of the measures by the City Council within 28 days of the declaration. The following sections identify water curtailment measures for the three alert levels.

   A. Level One Alert – Potential Water Supply Shortage. The City Manager has the authority to activate some or all of the following voluntary curtailment measures listed below until the reasons for a Level One Alert have passed:

      1) Restrict watering based on odd/even address numbers for residential and business customers, and governmental agencies. No watering will be allowed on Wednesdays. The schedule will apply to all lawn watering and all nonessential water uses with exceptions as specified by the Manager. Watering hours will be restricted to before 6 a.m. and after 9 p.m.

      2) Distribute brochures regarding conservation measures.

      3) Implement a media outreach program.

4) Notify major water users asking for reductions in use or moving nonessential use to off-peak hours.

5) Cease operation of non-recirculating fountains.

6) Restrict hydrant and water line flushing.

B. Level Two Alert – Water Supply Shortage. The City Manager has the authority to mandate any or all of the following measures until the reasons for the Level Two Alert have passed:

1) Any Level One Alert measures.

2) No watering or lawn irrigation will occur unless the following specific uses are approved by the City Manager:

a) New lawn, grass, or turf that has been seeded or sodded after March 1 of the current calendar year.

b) Athletic fields frequently used for organized play.

c) Golf course tees and greens.

d) Park and recreation areas of particular value to the community.

3) City water will not be used to clean, fill, or maintain levels in decorative fountains.

4) City water will not be used to clean sidewalks, walkways, streets, driveways, parking lots, or other hard surfaces except where necessary for public health and safety.

5) City water will not be used to wash vehicles including automobiles, trucks, trailers, trailer houses, motorcycles, boats, or other type of mobile equipment.

6) Limitations may be placed on non-essential industrial and commercial water consumption.

7) Hydrant and water main flushing will be done in emergencies only.

C. Level Three Alert – Critical Water Supply Shortage. The City Manager has the authority to mandate any or all of the following measures until the reasons for the Level Three Alert have passed.

1) Any Level One Alert measures.

2) Any Level Two Alert measures.

3) No City water will be used for watering of landscaping or irrigating of lawns, grass, turf, athletic fields, golf course tees and greens, or parks and recreation areas.

4) No City water will be used to fill or maintain levels in scenic or recreational ponds and lakes, or other structures making similar use of water.

5) No City water will be used to fill, refill, or add to any swimming pools.

6) No City water will be used to wash the outside of buildings.

7) No City water will be used on construction projects.

8) No City water will be served to restaurant customers unless requested.

9) Limitations will be placed on industrial and commercial users.

3. Citations may be issued to violators of any mandatory measure during a Level Two or Three Alert. In the event a second citation is issued to a single violator during the same alert period, the City Manager is authorized to:

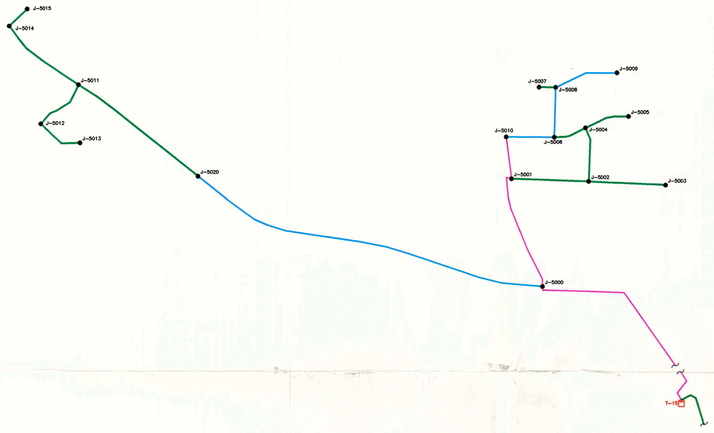
   A. Install a flow restrictor on the street side of the water meter; or

   B. Terminate water service.

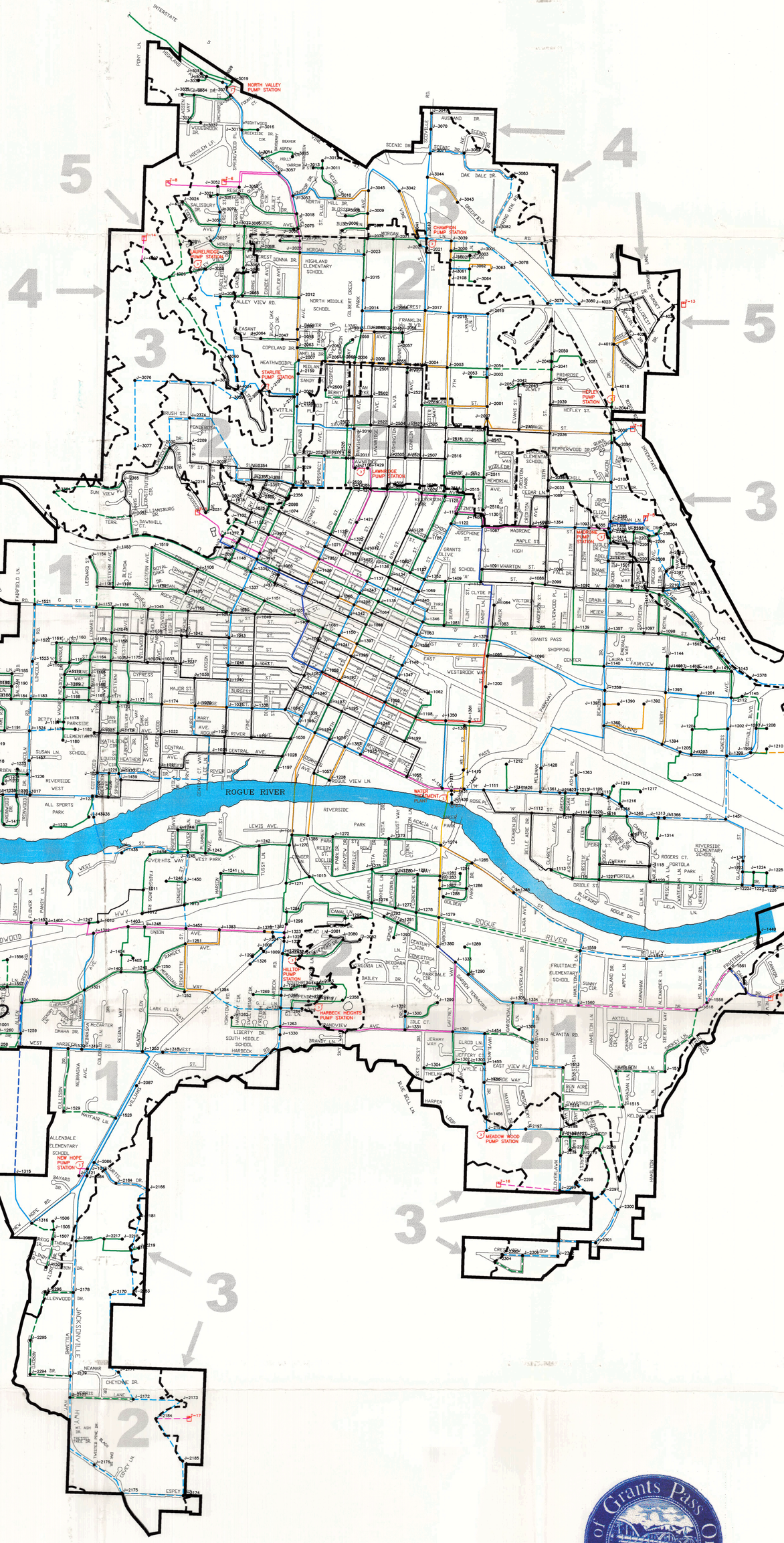
4. Pending adoption by the City Council, any water user dissatisfied with the administrative implementation or interpretation of these water curtailment measures may appeal the same to the City Manager, and should said user be dissatisfied with the decision rendered by the City Manager in such matter, then the user may appeal the same to the City Council to be heard at the next regular City Council meeting to be held after the decision of the City Manager is rendered. Any implementation or interpretation of these water curtailment measures shall remain in full force and effect until overturned or modified by the City Manager or City Council.

5. Upon consideration of a Level One, Two or Three Alert by the City Manager, the City Council by resolution may adopt, modify, or add any measures necessary to appropriately curtail water use.

NORTH VALLEY



SEE NORTH VALLEY INSERT



0 1000 2000
SCALE IN FEET

LEGEND		PIPELINE COLOR CODING	
	RESERVOIR		6"
	TANK		8"
	JUNCTION		10"
	PUMP		12"
	URBAN GROWTH BOUNDARY		14"
	ZONE BOUNDARY		16"
	FUTURE PIPELINE		20"
	EXISTING PIPELINE		24"
1	PRESSURE ZONE NUMBER		30"
			36"

WEST YOST & ASSOCIATES
CONSULTING ENGINEERS
132 East Broadway Suite 431
Eugene, Oregon 97401
(541) 431-1280
FAX (541) 431-1290

SYSTEM MAP

CITY OF GRANTS PASS
WATER DISTRIBUTION SYSTEM MASTER PLAN

Application No. 34141
Permit No. 26901

RECEIVED
JUN 11 1958
STATE ENGINEER
SALEM, OREGON

RANGE 6 W.

RANGE 5 W.

MAP OF

CITY OF
GRANTS PASS

JOSEPHINE COUNTY, OREGON

SCALE 1 INCH = 400 FEET

WATER
DISTRIBUTION SYSTEM

LEGEND

PIPE SIZE — STEEL PIPE ———
NO CONNECTION — CAST IRON PIPE ———
HIGH-LOW LEVEL DIVISION ———
HYDRANT

CITY LIMITS
MIDLAND AVE.
MILLER ST.
BRUSH ST.
OAKRIDGE ST.
SUNSET DR.
MANZANITA
SAVAGE
OUTLOOK
MEAD
FETTNER ST.
JOSEPHINE ST.
HIGH SCHOOL
MAPLE
HARTSON DR.
CHURCHILL
HETLEY
MEMORIAL DR.
RIDDLE DR.
CEDAR LANE
SHERMAN LA.
HI-LEVEL PUMP STA.
RESERVOIR & HI-LEVEL
BEACON DR.
JOSEPHINE MEMORIAL PARK
CITY RESERVOIR
SOUTHERN PACIFIC
WESTERN AVE.
EASTERN AVE.
ROGUE RIVER LOOP RD.
LEONARD RD.
3 W. BRIDGE
LOWER RIVER RD.
ROGUE LEA DR.
WEBSTER LANE
SEWAGE TREATMENT PLANT
ROGUE RIVER
CITY PARK
COUNTY FAIR GROUNDS
REDWOOD HWY.
REDWOOD CREEK
UNION AVE.
WILLIAMS HWY.
BAILEY ROAD
HARRIS
HILL
SHASTINE DR.
TCR
LILAC LN.
POPLAR DRIVE
FRUITDALE
MARIE LN.
BARTLETT LN.
FLORENCE LN.
PARKDALE
PACIFIC HWY.
CLARA AVE.
OAK
BRIDGE
CENTRAL AVE.
ROGUE RIVER
WATER GAS
GILBERT
LEWIS
TAYLOR
PARK
RIVERSIDE
CHESTNUT
MARION LANE
ROSE
ELM
ASH
OAK
CHERRY LANE
PORTOLA DR.
ASHLEY
CLARY
MERRITT
ROGUE RIVER
2870'
133'
FILTER PLANT
RIVER
FAIRVIEW LANE
TERRY AVE.
AGNESS AVE.
McLEAN RD.
FOOTHILL BLVD.
MT. BALDY RD.
FRUITDALE DR.
HAMILTON LN.
CARAWAY DR.
ARGENTA WAY
12 T
13 18
24 19
19 20
2021
16 15
21 22
9 10
16 15

Application No. 34141
Permit No. 26701

RECEIVED
JAN 11 1968
STATE ENGINEER
SALEM, OREGON

RANGE 6 W.

RANGE 5 W.

MAP OF

CITY OF GRANTS PASS

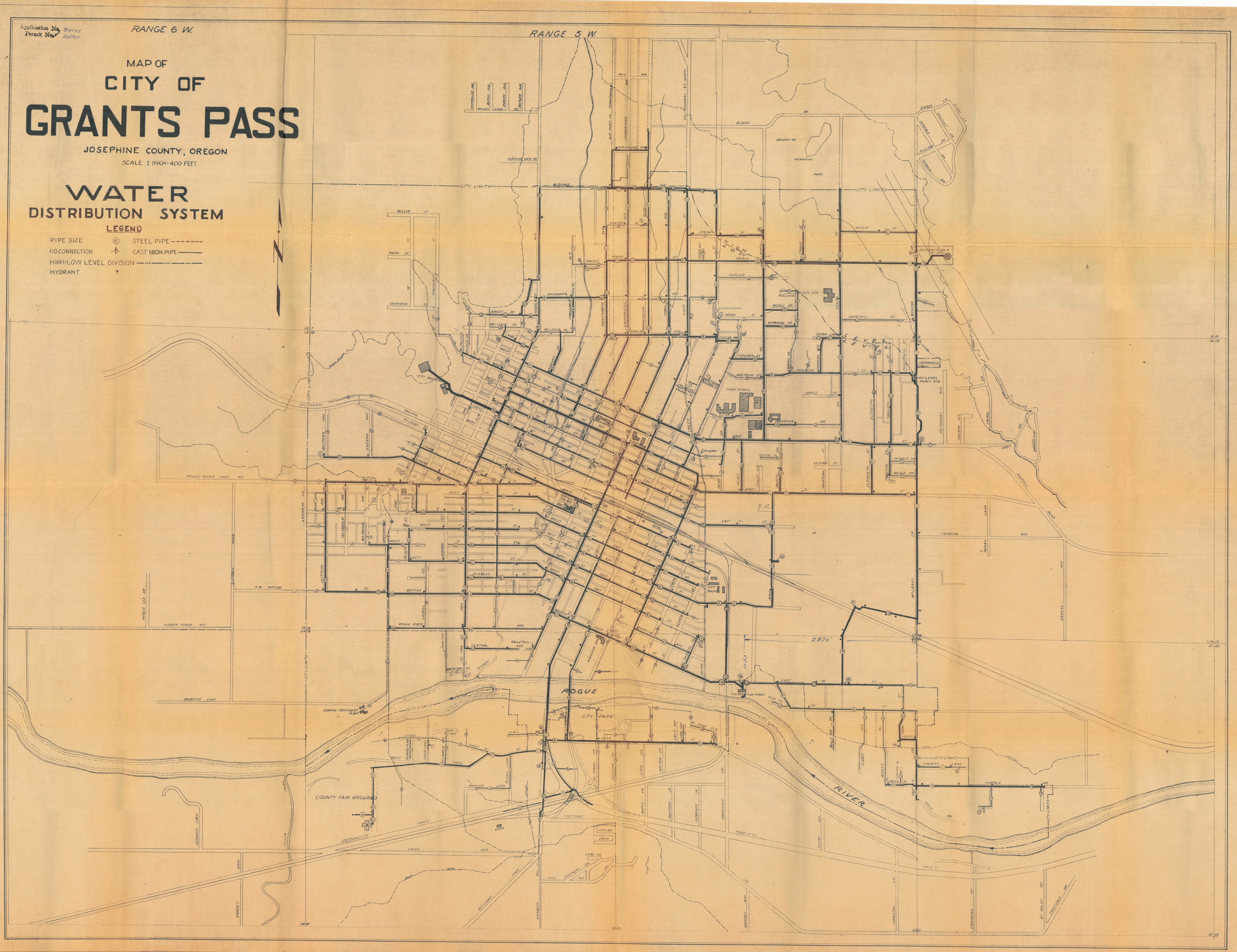
JOSEPHINE COUNTY, OREGON

SCALE 1 INCH = 400 FEET

WATER DISTRIBUTION SYSTEM

LEGEND

PIPE SIZE
NO CONNECTION
HIGH-LOW LEVEL DIVISION
HYDRANT
STEEL PIPE
CAST IRON PIPE



SEC. 24 T. 36 S. R. 6 W.
FL. NO. 4A-9 DATE 6-8-75
SECTION CORNER
LOCATIONS ARE APPROXIMATE

BOOK 11

NW1/4 SEC 24 T36S R 6 W W.M

JOSEPHINE COUNTY

1" = 200'

36 6 24B

SEE MAP 36 6 13C

SEE MAP 36 6 23A

SEE MAP 36 6 24A

SEE MAP 36 6 24CB

SEE MAP 36 6 24CA

CANCELLED
1205
1206

ROGUE LEA INC.

ROGUE LEA ESTATES SOUTH

RIVERSIDE LATERAL

ROGUE RIVER

LOWER SUMMER LANE

ROGUE LEA DR.

9' ROGUE LEE LN.

HIGHWAY NO. 260

LOT 4 49.83

LOT 5 19.30

LOT 3 27.80

ANNABELLE LANE

LEONARD RD.

1/4 COR.

M.C.

RECEIVED
SEP 25 1980
WATER RESOURCES DEPT
SALEM, OREGON

5-31-83 NEAL

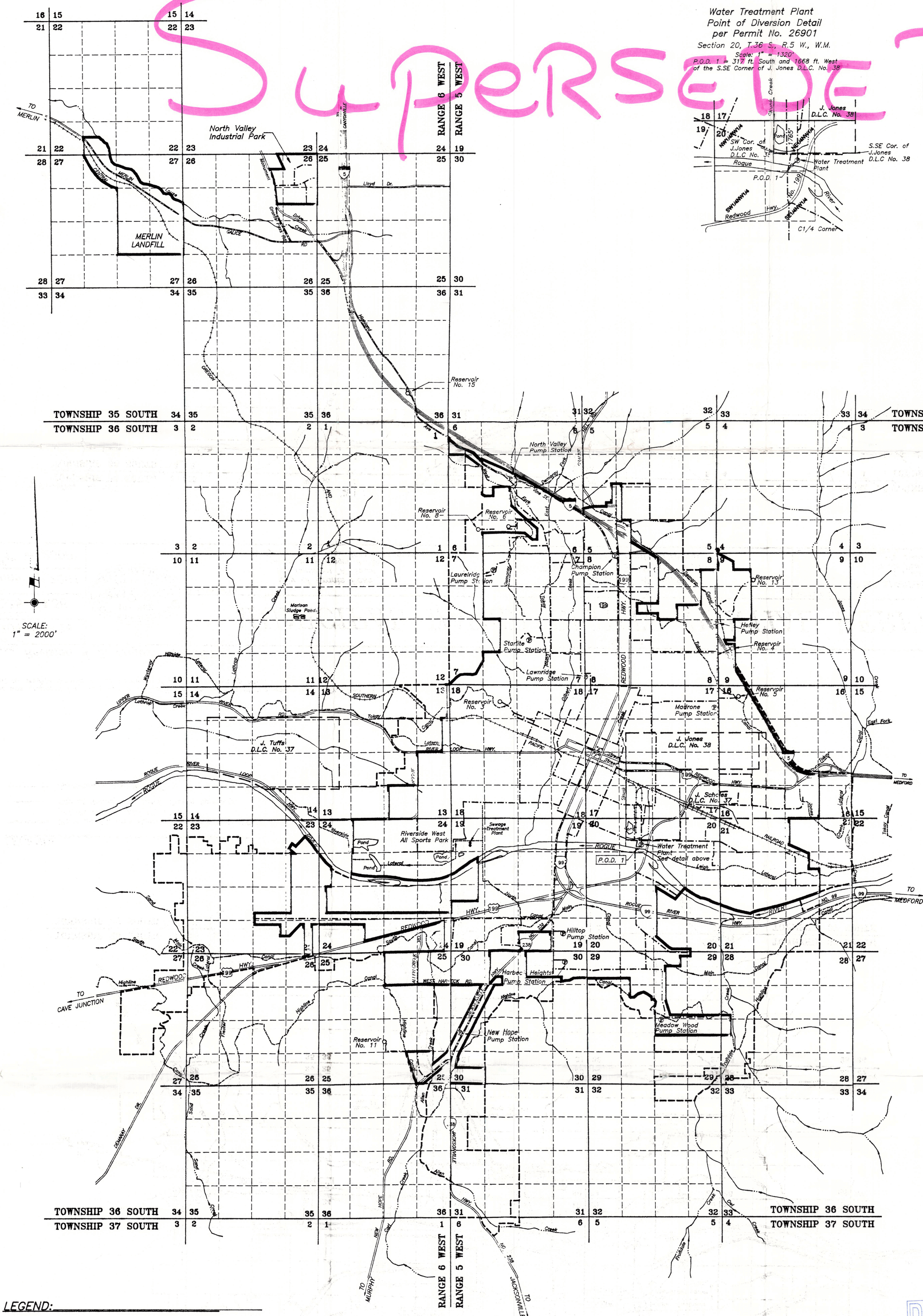
SUPERSEDED

Water Treatment Plant
Point of Diversion Detail
per Permit No. 26901

Section 20, T.36 S., R.5 W., W.M.

Scale: 1" = 1320'

P.O.D. 1 = 317 ft. South and 1668 ft. West of the S.SE Corner of J. Jones D.L.C. No. 38



LEGEND:

- Water Service Area Boundary per Permit No. 26901 (Priority Date = July 19, 1960)
- City of Grants Pass Urban Growth Boundary
- Approximate location of 8" to 36" water pipe lines

RECEIVED
SEP - 3 2002
WATER RESOURCES DEPT
SALEM, OR

This plat was prepared for the purpose of identifying the location of the water right only. There is no intent to provide dimensions or locations of property ownership lines.

(P2\ctywtr\ctywtr.dwg) Revision # 2: August 1, 2001

SHEET NO. 1 of 1

PROJECT NO. 704-01-36

DRAWING NO. 335-24.36

DATE June 6, 2001

SCALE 1" = 2000'

CERTIFIED WATER RIGHTS EXAMINER
194 WRE
Gary D. Wicks
May 17, 1988
STATE OF OREGON

PLAT OF

MUNICIPAL WATER RIGHTS PARTIAL PERFECTION

SURVEYED FOR:
City of Grants Pass
101 Northwest "A" Street
Grants Pass, Oregon 97526
Tel. (541) 474-6355, Fax. (541) 476-9218

LOCATED IN
T.36 S.,R.5 W., and
T.35 S. and T.36 S.,R.6 W.,W.M.
Josephine County, Oregon

SURVEYED BY:
WICKS ENGINEERING & SURVEYING
311 N.E. "D" Street
Grants Pass, Oregon 97526
Tel. (541) 479-3436 Fax (541) 479-1014