

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- Ground Water (Issued in accordance with the provisions of Chapter 283, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE May 25, 1990	APPLICATION NUMBER G2-27772	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Pattison Water Company			
ADDRESS (STREET) 6010 44th Way N.E.	(CITY) Olympia	(STATE) Washington	(ZIP CODE) 98506-2477

PUBLIC WATERS TO BE APPROPRIATED

SOURCE A well
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 450	MAXIMUM ACRE-FEET PER YEAR 336 *
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QUANTITY, TYPE OF USE, PERIOD OF USE 336 acre-feet per year	Community domestic supply	Year-round, as needed
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Partially Supplemental

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL 400 feet north and 1,050 feet west of the southeast corner of Section 12.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE $\frac{1}{4}$ SE $\frac{1}{4}$	SECTION 12	TOWNSHIP N. 17	RANGE, (E. OR W.) W.M. 1W	W.R.I.A. 13	COUNTY Thurston
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Pattison Water Company System within Section 12, T. 17 N., R. 1 W., Large Lot Subdivision Chestnut Hill in Thurston County, Washington.

Approved class 2 water system, consisting of 5 wells, 4 reservoirs and 15 miles of water lines. This well is 10" x 224'.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: March 1, 1994	WATER PUT TO FULL USE BY THIS DATE: March 1, 1995
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REPORT

BACKGROUND:

On May 25, 1990, G. C. Casebolt/Pattison Water Company filed for a permit under the provisions of Chapters 90.03 and 90.44, Revised Code of Washington (RCW) to appropriate public ground water from a well in the amount of 450 gallons per minute for community domestic supply. The application was accepted for processing and assigned Application No. G2-27772. The priority date of this application is May 25, 1990.

The legal notice of the applicant's proposed appropriation was duly published in the Nisqually Valley News of Yelm, Washington on June 7 and 14, 1990. No objections were received as a result of the public notice.

INVESTIGATIONS:

In consideration of this application, I conducted a field investigation on September 6, 1991. The applicant was not present during the site visit. Other investigations included a review of recorded water rights, water right claims, area water well reports, my February 14, 1991 telephone interview with Mr. Casebolt and an evaluation of information submitted with the application.

As a result of these investigations, the following is reported.

The location of this well site is approximately five miles south of Lacey off of Meridian Road. This site is known as the Chestnut Hill development. The predominant land use in this area is a mix of rural residential and agricultural.

The 10" X 224' drilled well was constructed during February and March of 1991 under the authority of a preliminary permit issued by Ecology on July 27, 1990. The drilling and pump test was conducted by Carpenter Drilling Company of Olympia. Pump test results show a yield of 225 gallon per minute with 6 feet of drawdown after 24 hours. This well was completed in gravel, sand and cobbles with a ten inch diameter screen, slot size 30, which was set from 213 to 223 feet. The static water level at the completion of drilling was measured at 146 feet below land surface.

The purpose of this new well will be to supply additional water and assist in maintaining a full reservoir at this location. The five wells currently in use supply sufficient total water for present and immediate future uses, but at peak use conditions the Chestnut Hill reservoirs at this site can be drawn down. This newest well will insure full reservoirs and also augment and strengthen the entire community water system, as well as provide capacity for future growth in this area.

This approved community water system currently is supplied by five wells under the authority of Ground Water Certificate No. G2-26271. This certificate was issued for 1000 gallons per minute 218 acre-feet per year primary and 18 acre-feet per year supplemental, for 700 services.

One of the original wells used for the system is known as the Parkdale well. Under Ground Water Certificate No. G2-20345 the authorized use from this well is 75 gallons per minute, 17.2 acre-feet per year.

In discussing this project with the owner Mr. Casebolt, he stated that this new well is now equipped with a 15 hp submersible pump capable of 225 gpm. Future plans are to install a 25 hp pump capable of 450 gpm by the year 1994 to meet future growth for this system and area. The mainline system presently consists of 6 wells, (including this new well) 4 reservoirs, and approximately 15 miles of 6 inch water main for 700 services. Future projections for service in this area is 1,000 connections.

DISCUSSION:

Department of Ecology records show that within a half mile radius of the applicant's new well, six ground water right certificates have been issued, which include the Pattison Water Co. rights. The instantaneous withdrawal authorized under these rights is 1,108 gpm; 246.53 acre-feet per year; 18 acre-feet per year supplemental.

Within the same area Ecology records show that 16 wells have been constructed and 34 ground water right claims have been registered.

Based on well spacing and water use requirements for this rural area, well interference is unlikely. To date there has been no well interference problems registered with Ecology for this area. However, the applicant is reminded of the responsibility towards other right holders in the area, and advised that regulation of the withdrawal and pumping rate may be required if existing rights are injuriously affected.

For the projected future connections of 1,000, the normal water requirements for this type of water system should not exceed 300 gallons per day per service. When calculated on an annual basis this amounts to 336 acre-feet per year, 235 acre-feet per year is supplemental to existing rights. "The total annual withdrawal under all rights shall not exceed 336 acre-feet per year."

CONCLUSIONS:

In accordance with Chapters 90.03 and 90.44 RCW, I find there is water available for appropriation from the source in question and the appropriation as recommended is a beneficial use and will not impair existing rights or be detrimental to public welfare.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow appropriation of 450 gallons per minute from a well for community domestic supply. The period of use shall be year around as needed. The total annual withdrawal shall not exceed 336 acre-feet per year.

Approval shall be subject to the following provisions.

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port. Water levels shall be measured and recorded using a consistent methodology, in accordance with accepted industry standards. Such measurements shall be made at least monthly. The length of the pumping period or recovery period prior to each measurement shall be constant, and shall be included in the record.

This permit is subject to the implementation of the minimum requirements established in the Interim Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, July 1990, (which is attached).

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the states water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant shall prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

The applicant is advised that notice of proof of appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent diversion facilities have been installed, together with a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served, and the system is currently in use.

The use of the waters to be appropriated under this application will be for a public water supply. The State Board of Health rules require every owner of a public water supply to obtain written approval from the Office of Water Supply, Department of Health, Mail Stop LD-11, Building 3, Olympia, Washington 98504, prior to any new construction or alterations of a public water supply.

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached). Meter readings shall be recorded at least monthly.

"The total annual withdrawal under all rights shall not exceed 336 acre-feet per year."

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the waters of the state in the best public interest. Favorable consideration of this application has been based on sufficient waters available, at least during portions of the year. However, it is pointed out to the applicant that this use of water may be subject to regulation at certain times, based on the necessity to maintain water quantities sufficient for preservation of the natural environment.

REPORTED BY: Wicki Windust DATE: May 11, 1992

The statutory permit fee for this application is \$20.00.