File NR CG3-*00486C
WR Doc ID 4275835

DEPARTMENT OF ECOLOGY
State of Washington

State of Washington
REPORT OF EXAMINATION FOR WATER RIGHT CHANGE

PRIORITY DATE
March 22, 1947

WATER RIGHT NUMBER
4172-A

ADDRESS
Whitworth Water District No. 2
10828 Waikiki Road
Spokane, WA 99218

Total Quantity Authorized for Withdrawal

WITHDRAWAL RATE	UNITS	ANNUAL QUANTITY (AF/YR)
750	GPM	1200

Purpose

PURPOSE	WITHDRAWAL RATE (GPM)	ANNUAL QUANTITY (AF/YR)	PERIOD OF USE
Municipal	750	1200	01/01 - 12/31

Source - Spokane Valley/Rathdrum Prairie Water System

SOURCE	COUNTY	WATERBODY	WATER RESOURCE INVENTORY AREA
Eight (8) wells	SPOKANE	GROUNDWATER	55 - LITTLE SPOKANE

Source Locations - Spokane Valley/Rathdrum Prairie Water System

Source Name	Parcel #	Well Tag	Twp	Rng	Sec	QQ	Latitude	Longitude
Well 1	36302.2303	AHC765	26 N	43 E	30	SE¼NW¼	47.72391°N	-117.423°W
Well 1A	36193.0210	ABR544	26 N	43 E	19	SE¼SW¼	47.7329°N	-117.423°W
Well 2	36191.0313	BIO881	26 N	43 E	19	NE¼NE¼	47.74362°N	-117.416°W
Well 2A	36202.0123	AHC766	26 N	43 E	20	NW¼NW¼	47.74358°N	-117.411°W
Well 2B	36191.0313	AHC767	26 N	43 E	19	NE¼NE¼	47.74332°N	-117.416°W
Well 3	36073.9024	AHC770	26 N	43 E	7	SE¼SW¼ or SW¼SE¼	47.75848°N	-117.422°W
Well 3B	36071.9066	AHC771	26 N	43 E	7	SW¼NE¼	47.76882°N	-117.417°W
Well 3C	36082.0417	BCE958	26 N	43 E	8	SW¼NW¼	47.76828°N	-117.408°W

Datum: WGS84

Place of Use (See Attached Map)

The place of use (POU) of this water right is the service area described in the most recent Water System Plan/Small Water System Management Program approved by the Washington State Department of Health.

Proposed Works

Eight (8) wells, pumps, reservoirs, distribution system

Development Schedule

BEGIN PROJECT	COMPLETE PROJECT	PUT WATER TO FULL USE
Started	Complete	In use

Measurement of Water Use

How often must water use be measured?	Weekly
How often must data be reported to Ecology?	Upon request by Ecology
What volume should be reported?	Total Annual Volume
What rate should be reported?	Annual Peak Rate of Withdrawal (gpm)

Provisions

This authorization to make use of public waters of the State is subject to existing rights, including any existing rights held by the United States for the benefit of Indians under treaty or otherwise.

Nothing in this authorization shall be construed as satisfying other applicable federal, state, or local statutes, ordinances, or regulations.

Wells, Well Logs and Well Construction Standards

All wells constructed in the state must meet the construction requirements of WAC 173-160 titled "Minimum Standards for the Construction and Maintenance of Wells" and RCW 18.104 titled "Water Well Construction". Any well which is unusable, abandoned, or whose use has been permanently discontinued, or which is in such disrepair that its continued use is impractical or is an environmental, safety or public health hazard must be decommissioned.

All wells must be tagged with a Department of Ecology unique well identification number. If you have an existing well and it does not have a tag, please contact the well-drilling coordinator at the regional Department of Ecology office issuing this decision. This tag must remain attached to the well. If you are required to submit water measuring reports, reference this tag number.

Installation and maintenance of an access port as described in WAC 173-160- 291(3) is required.

Measurements, Monitoring, Metering and Reporting

An approved measuring device must be installed and maintained for each of the sources identified by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use", WAC 173-173, which describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition the Department of Ecology for modifications to some of the requirements.

Water Use Efficiency
The water right holder is required to maintain efficient water delivery systems and use of up-to-date water conservation practices consistent with RCW 90.03.005.

Proof of Appropriation
The water right holder must file the notice of Proof of Appropriation of water (under which the certificate of water right is issued) when the permanent distribution system has been constructed and the quantity of water required by the project has been put to full beneficial use. The certificate will reflect the extent of the project perfected within the limitations of the water right. Elements of a proof inspection may include, as appropriate, the source(s), system instantaneous capacity, beneficial use(s), annual quantity, place of use, and satisfaction of provisions.

Schedule and Inspections
Department of Ecology personnel, upon presentation of proper credentials, will have access at reasonable times, to the project location, and to inspect at reasonable times, records of water use, wells, diversions, measuring devices and associated distribution systems for compliance with water law.

Real Estate Excise Tax
This decision may indicate a Real Estate Excise Tax liability for the seller of water rights. The Department of Revenue has requested notification of potentially taxable water right related actions, and therefore will be given notice of this decision, including document copies. Please contact the state Department of Revenue to obtain specific requirements for your project. Phone: (360) 570-3265. The mailing address is: Department of Revenue, Real Estate Excise Tax, PO Box 47477, Olympia WA 98504-7477 Internet: http://dor.wa.gov/. E-mail: REETSP@DOR.WA.GOV.

Findings of Facts
Upon reviewing the investigator's report, I find all facts, relevant and material to the subject application, have been thoroughly investigated. Furthermore, I concur with the investigator that a valid right exists; that there will be no impairment of existing rights; that the purpose(s) of use are beneficial; and that there will be no detriment to the public interest.

Therefore, I ORDER approval of Application No. CG3-*00486C, subject to existing rights and the provisions specified above.

Your Right To Appeal

You have a right to appeal this Order to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do the following within 30 days of the date of receipt of the Order.

File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.

- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

- You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503 **Pollution Control Hearings Board** 1111 Israel Road SW Ste 301 Tumwater, WA 98501	**Department of Ecology** Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608 **Pollution Control Hearings Board** PO Box 40903 Olympia, WA 98504-0903

Signed at Spokane, Washington, this 9th day of September, 2014.

Keith L. Stoffel, Section Manager

For additional information visit the Environmental Hearings Office Website: http://www.eho.wa.gov. To find laws and agency rules visit the Washington State Legislature Website: http://www1.leg.wa.gov/CodeReviser.

INVESTIGATOR'S REPORT
Gene Drury, Department of Ecology
Water Right Control Number CG3-*00486C
Ground Water Certificate Number 4172-A

BACKGROUND

This report serves as the written findings of fact concerning Water Right Change Application Number CG3-*00486C.

Application and Proposed Changes

An application for change/transfer was submitted by Whitworth Water District #2 (WWD#2), to the Department of Ecology, Water Resources Program on April 10, 2006. The application was later amended on March 26, 2014. WWD#2 proposes to add a total of seven (7) wells (all existing) as granted under Ground Water Certificate No. 4172-A. WWD#2 also requested a change in purpose of use to "Municipal supply" and place of use to "Area served by Whitworth Water District #2 in accordance with our most recently approved Water System Plan".

EXISTING Water Right Attributes

Recorded Name:	Town & Country Utilities Co. Inc.
Priority Date:	March 22, 1947
Source	A well (#1)
GPM	750
AF/YR	1200
Purpose of use	Community domestic supply
Place of Use	Linwood Park Addition; Lots 1 through 5, Block 1 and Lots 1 through 11, Block 5, Cozza's 4th Addition; and NW¼, all in Sec. 30, T. 26 N., R. 43 E.W.M. S½SW¼, Sec. 19, T. 26 N., R. 43 E.W.M.; NE¼SE¼, Sec. 25, T. 26 N., R. 42 E.W.M.;
County	Spokane
WRIA	57 – Middle Spokane

Source	Parcel #	Well Tag	Twp	Rng	Sec	QQ	Latitude	Longitude
Well 1	36302.2303	AHC765	26 N	43 E	30	SE¼NW¼	47.72391°N	-117.423°W

GPM = Gallons per minute; AF/YR = Acre-feet per year; Sec. = Section; QQ Q = Quarter-quarter of a section; WRIA = Water Resource Inventory Area; E.W.M. = East of the Willamette Meridian

REQUESTED Water Right Attributes

Applicant Name:	Whitworth Water District No. 2
Date of Application:	April 10, 2006
Source	Eight wells (#1, 1A, 2, 2A, 2B, 3, 3B, 3C)
GPM	750
AF/YR	1200
Purpose of use	Municipal supply
Place of Use	Area served by Whitworth Water District #2 in accordance with the most recently approved Water System Plan

Source	Parcel #	Well Tag	Twp	Rng	Sec	QQ	Latitude	Longitude
Well 1	36302.2303	AHC765	26 N	43 E	30	SE¼NW¼	47.72391°N	-117.423°W

Well 1A	36193.0210	ABR544	26 N	43 E	19	SE¼SW¼	47.7329°N	-117.423°W
Well 2	36191.0313	BIO881	26 N	43 E	19	NE¼NE¼	47.74362°N	-117.416°W
Well 2A	36202.0123	AHC766	26 N	43 E	20	NW¼NW¼	47.74358°N	-117.411°W
Well 2B	36191.0313	AHC767	26 N	43 E	19	NE¼NE¼	47.74332°N	-117.416°W
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Well 3B	36071.9066	AHC771	26 N	43 E	7	SW¼NE¼	47.76882°N	-117.417°W
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GPM = Gallons per minute; AF/YR = Acre-feet per year; Sec. = Section; QQ Q = Quarter-quarter of a section; WRIA = Water Resource Inventory Area; E.W.M. = East of the Willamette Meridian

Legal Requirements for Proposed Change

The following is a list of requirements that must be met prior to authorizing the proposed change.

Public Notice

RCW 90.03.280 requires that notice of a water right application be published once a week, for two consecutive weeks, in a newspaper of general circulation in the county or counties where the water is to be stored, diverted and used. Notice of this application was published in the Deer Park Tribune on June 27 and July 4, 2007. No protests were received.

State Environmental Policy Act (SEPA)

This application is not exempt from the provisions of the State Environmental Policy Act (SEPA) of 1971, Chapter 43.21 RCW, due to the fact that the cumulative quantities of water for this project and those under existing water rights constitute a withdrawal of more than 2,250 gallons per minute. After review of a completed environmental checklist and other information on file with Ecology, this proposal was determined to not have a significant adverse impact on the environment. A final Declaration of Non-Significance was issued by Ecology on April 7, 2014, stating that no environmental impact statement is required.

Water Resources Statutes and Case Law

RCW 90.03.380(1) states that a water right that has been put to beneficial use may be changed. The point of diversion, place of use, and purpose of use may be changed if it would not result in harm or injury to other water rights.

The Washington Supreme Court has held that Ecology, when processing an application for change to a water right, is required to make a tentative determination of extent and validity of the claim or right. This is necessary to establish whether the claim or right is eligible for change. *R .D. Merrill v. PCHB* and *Okanogan Wilderness League v. Town of Twisp.*

RCW 90.44.100 allows Ecology to amend a ground water permit to (1) allow the user to construct a replacement or additional well at a new location outside of the location of the original well, or to (2) change the manner or place of use of the water, if:

(a) The additional or replacement well taps the same body of public ground water as the original well. RCW 90.44.100(2)(a),
(b) Where a replacement well is approved, the user must discontinue use of the original well and properly decommission the original well. RCW 90.44.100(2)(b),

(c) Where an additional well is constructed, the user may continue to use the original well, but the combined total withdrawal from all wells shall not enlarge the right conveyed by the original permit or certificate. RCW 90.44.100(2)(c),
(d) Other existing rights shall not be impaired. RCW 90.44.100(2)(d).

When changing or adding points of withdrawal to groundwater rights (RCW 90.44.100), or when consolidating exempt wells with an existing permit or certificate (RCW 90.44.105), the wells must draw from the *same body of public groundwater*. Indicators that wells tap the *same body of public groundwater* include:

(a) Hydraulic connectivity.
(b) Common recharge (catchment) area.
(c) Common flow regime.
(d) Geologic materials that allow for storage and flow, with recognizable boundaries or effective barriers to flow.

RCW 90.03.386(2) states that a municipal water supplier may change its service area through the water system plan approval process. As long as the municipal water supplier is in compliance with the approved plan, the place of use for the water right is the service area of the plan.

INVESTIGATION

In considering the proposed change, the investigation included, but was not limited to, research and review of (1) appropriate rules and statutes; (2) Ground Water Certificate No. 4172-A and other water rights/claims/applications in the vicinity; (3) water well reports for the applicant's wells; (4) USGS topographic maps; (5) Water System Plan prepared by Tom Haggerty, P.E. of E & H Engineering, Inc. for Whitworth Water District No. 2; (6) Meetings with Susan McGeorge (WWD#2), Doug Babin (WWD#2), Tom Haggerty, Sr. (E&H), Tom Haggerty, Jr. (E&H); (7) review by Department of Ecology regional program staff.

A field investigation was conducted by Gene Drury on May 21, 2014 with Doug Babin of WWD#2. Whitworth Water District No. 2 is a municipal water supplier and has served water in the Spokane area since 1939. The service area for WWD#2 covers about 50 square miles and water is provided to a population of around 25,000. The population within the service area continues to increase as does the demand for water in rural areas.

WWD#2 pumps ground water from a total of fourteen (14) wells which include six pressure zones (Zones 1, 2, 3, 4, 8 & 9). Eight (8) wells pump water from the Spokane Valley/Rathdrum Prairie Aquifer. They are located in Zone 1 (Well 1, 1A) in the Linwood area; Zone 2(Well 2A, 2B, 2) near Country Homes Blvd and Division Streets and Zone 3 & 4(Wells 3, 3B, 3C) north of Whitworth College and south of Hastings Road. The other six (6) wells pump water a couple miles to the north from the Little Spokane River Aquifer. Zone 8 consists of five wells (Wells 8, 8A1, 8A2, 8B, 8C) located at Pine River Park near the Little Spokane River. Zone 9 consists of one well (Well 9 and 3 Booster Stations) located just off and Highway 2 (Newport Highway). Zone 9 provides water to the Green Bluff Water Association. More detailed information on the operation of the WWD#2 water system including emergency interties, etc. can be found in the Water System Plan prepared by E & H Engineering Inc. of Spokane, WA.

Over the years WWD#2 has acquired or provided water to several neighboring water systems which are either failing or having water problems. These water systems include Rivilla, North Mountain View, Panorama, North Glen, Greenbluff Area, Greenbluff Bench Water Association, Colbert, Shenandoah, Chattaroy Hills and Chattaroy Community Church. This has resulted in the District having to make many alterations and upgrades to the water system. New mainline extensions to rural areas, new reservoirs, booster stations and wells have all been constructed.

Certificate No. 4172-A

Ground Water Certificate 4172-A, with a priority of March 22, 1947, was issued to Town & Country Utilities Co. Inc. on April 18, 1962. The certificate authorized withdrawal of 750 gallons per minute and 1200 acre-feet per year, continuously, for community domestic supply from one well (Well #1). The well is located within Lot A, Block 9 of Town and Country Addition, within the SE¼NW¼ of Sec. 30, Township 26 N., Range 43 E.W.M. in Spokane County, Washington. WWD#2 took over the well and water system in 1966 and have been providing municipal water to the area since that time.

On April 5, 2004, WWD#2 submitted a Showing of Compliance form to Ecology for replacement of Well #1 at the same location. A new Well #1 was constructed by CJ Warren Drilling in April of 2001. The new Well #1 was constructed to a depth of 320 feet and produced 1500 gallons per minute. This well is also authorized under Ground Water Certificate No. G3-20621C.

Existing Water Rights - WWD#2

Whitworth Water District No. 2 qualifies as a "municipal water supplier" as defined under RCW 90.03.015(3) and has used water for municipal supply purposes under its water rights within the authorized place of use. Based on the water use data provided, WWD#2 has not perfected its full allocation of water under all of its water right certificates, leaving inchoate (or unused) water rights available for future use. The inchoate water availability is consistent with the municipal legislation (SHB 1338) passed in 2003. This law became effective September 9, 2003 and allowed municipal water suppliers to grow into the remaining quantities of these "pumps and pipes" certificates. The remaining or unused portions allows for certainty and future growth by municipal water suppliers. RCW 90.03.330(3) indicates that such water rights remain in good standing.

Water right holders must still meet other requirements in the Water Code such as due diligence in project development to keep these rights in good standing. The Department recognizes that cities often grow at uneven rates, and need to be able to serve their growing populations. The actual use of water over time fluctuates due to many factors, which include but are not limited to year-to-year weather patterns, conservation measures, water price and general changes in water use practices. Over time, the population within WWD#2 service area has grown, often at considerable rates. Significant work has been conducted to upgrade the infrastructure of their system and promote conservation with their water users. This continuing upgrade and growth of their system is due diligence of the project.

Because WWD#2 is a municipal water supplier, the purpose of use and place of use is being changed under Certificate 4172-A to be consistent with RCW 90.03.015(4) and RCW 90.03.386(2).

WWD#2 currently holds water rights from wells located within both the Spokane Valley-Rathdrum Prairie Aquifer (SVRP) and the Little Spokane River (LSR) Aquifer.

The WWD#2 wells authorized for use within the Spokane Valley-Rathdrum Prairie aquifer are recorded under eleven (11) ground water certificates as follows: Ground Water Certificate Nos. 805-D, 4172-A, 4176-A, 6276-A, 4989-A, 4990-A, G3-00326C, 6360-A, G3-20621C, G3-26134C and G3-26135C.

WWD#2 WATER RIGHTS - SPOKANE VALLEY/RATHDRUM PRAIRIE AQUIFER (SVRP):

NUMBER	PRIORITY	WELL #	Q(i)	Q(a)	P/NA
805-D	1921	2	1,000	332	P
4172-A	3/22/47	1	750	1,200	P
4176-A	6/29/55	1A	1,150	776	P
6276-A	7/18/58	3C	500	67.5	P
4989-A	10/21/63	3	1,000	829	P
4990-A	10/21/63	2A	1,000	(1,161)	NA1
G3-00326C	3/15/68	3C	1,200	185	P
6360-A	8/2/68	3	500	(159)	NA2
G3-20621C	11/20/72	1, 1A	1,800	2,903.2	P
G3-26134C	1/9/79	2B	3,000	3,639	P
		2B	---	(4,800)	NA3
G3-26135C	1/9/79	3B	3,000	2,000	P
TOTALS:			**14,900**	**11,931.7**	

Q(i): Instantaneous quantity in Gallons per minute; **Q(a):** Annual quantity in Acre-feet per year;
P: Primary water right; **NA:** Non-Additive water right provision- see below

NA1: Total annual withdrawal under 4990-A not to exceed 1161 acre-feet less any amount withdrawn under 805-D and 4989-A

NA2: Total annual withdrawal under 6360-A not to exceed 159 acre-feet less any amount withdrawn under G3-00326C.

NA3: Total annual withdrawal under G3-26134C not to exceed 4800 acre-feet less any amount withdrawn under 805-D and 4989-A.

( ): The Qa quantity includes a non-additive provision under this water right.

The WWD#2 wells authorized for use within the Little Spokane River aquifer are recorded under thirteen (13) ground water certificates and one ground water permit as follows: Ground Water Certificate Nos. 2871-A, 3043-A, 3658-A, 4368-A, G3-01316C, G3-01336C, G3-20460C, G3-20621C, G3-23977C, G3-23978C, G3-24203C, G3-26203C, G3-26227C and Permit No. G3-27874P.

WWD#2 WATER RIGHTS - LITTLE SPOKANE RIVER AQUIFER (LSR):

NUMBER	PRIORITY	WELL #	Q(i)	Q(a)	P/NA
2871-A	4/2/57	8C	50	11.54	P
3043-A	2/23/56	8	100	160	P
3658-A	10/29/59	8C	180	49	P
4368-A	7/11/60	9	100	18	P
G3-01316C	9/16/69	8A1	450	168	P
G3-01336C	10/20/69	8C	250	37	P
G3-20460C	8/23/72	8C	80	50	P

G3-20621C	11/20/72	8	166	267.8	P
G3-23977C	12/13/74	8	260	226	P
G3-23978C	12/13/74	8C	100	61	P
G3-24203C	3/1/75	8A2	3,250	985.6	P
G3-26203C	4/7/79	9	100	142	P
		9	---	(160)	NA4
G3-26227C	4/26/79	8C	250	400	P
G3-27874P	10/6/84	8B	5,000	3,700	P
TOTALS:			**10,336**	**6,275.94**	

Q(i): Instantaneous quantity in Gallons per minute; **Q(a):** Annual quantity in Acre-feet per year;
P: Primary water right; **NA:** Non-Additive water right provision- see below

NA4: Total annual withdrawal under G3-26203C not to exceed 160 acre-feet less any amount withdrawn under 4368-A.

( ): The Qa quantity includes a non-additive provision under this water right.

Beneficial Use/Water Use Data

The existing WWD#2 wells, which provide municipal water supply, have already been integrated together. All of the source meters and booster station meters are read daily, monthly and annual tabulations are then prepared. Annual water use data was provided by WWD#2 for years 2009-2013 for each Zone and included subtotals for the Spokane Valley/Rathdrum Prairie and Little Spokane River water systems:

Pump Records
In Gallons

Zone	2,009	2,010	2,011	2,012	2,013	Total
1	222,562,900	177,246,700	232,524,100	217,632,100	218,744,000	1,068,709,800
2	855,651,700	690,329,900	819,275,800	780,646,600	746,062,100	3,891,966,100
3	855,528,300	939,208,900	689,820,200	819,533,800	677,272,500	3,981,363,700
4	0	0				
Subtotal	1,933,742,900	1,806,785,500	1,741,620,100	1,817,812,500	1,642,078,600	8,942,039,600
8	1,317,040,900	994,468,600	1,059,369,000	1,087,996,500	1,238,437,600	5,697,312,600
9	0	0	0	0	0	0
Subtotal	1,317,040,900	994,468,600	1,059,369,000	1,087,996,500	1,238,437,600	5,697,312,600
Total	3,250,783,800	2,801,254,100	2,800,989,100	2,905,809,000	2,880,516,200	14,639,352,200

WWD#2 has used less water in recent years due to ongoing conservation efforts and water system upgrades. In 2009, WWD#2 pumped 1,933,742,900 gallons (5,934 acre-feet) from the Spokane Valley/Rathdrum Prairie Aquifer system (Zones 1-4). They are authorized to pump 11,931.7 acre-feet per year from this system.

In 2009, WWD#2 pumped 1,317,040,900 gallons (4,142 acre-feet) from the Little Spokane River Aquifer system (Zones 8-9). They are authorized to pump 6,275.94 acre-feet per year from this system. WWD#2 has several intertie agreements between adjacent water purveyors in the area. This allows WWD#2 to transfer water from its system to another to meet fire flow requirements and/or for

emergency purposes. These include: The City of Spokane, Spokane County Water District #3 and Whitworth College.

Hydrogeologic Analysis

Applications for change of water right permits and certificates are governed by RCW 90.44.100, which states in part that the holder of a valid right to withdraw public ground waters may, without losing his priority of right, construct wells at a new location in substitution for, or in addition to, those at the original location, or he may change the manner or the place of use of the water. Any amendment shall be issued by the Department of Ecology (Ecology) only under the conditions that (1) an additional or substitute well or wells shall tap the same body of public ground water as the original well or wells; (2) use of the original well or wells shall be discontinued upon construction of the substitute well or wells; (3) the construction of an additional well or wells shall not enlarge the right conveyed by the original permit or certificate; and (4) all existing water rights shall not be impaired. Ecology may specify an approved manner of well construction and shall require a showing of compliance with the provisions of the amendment.

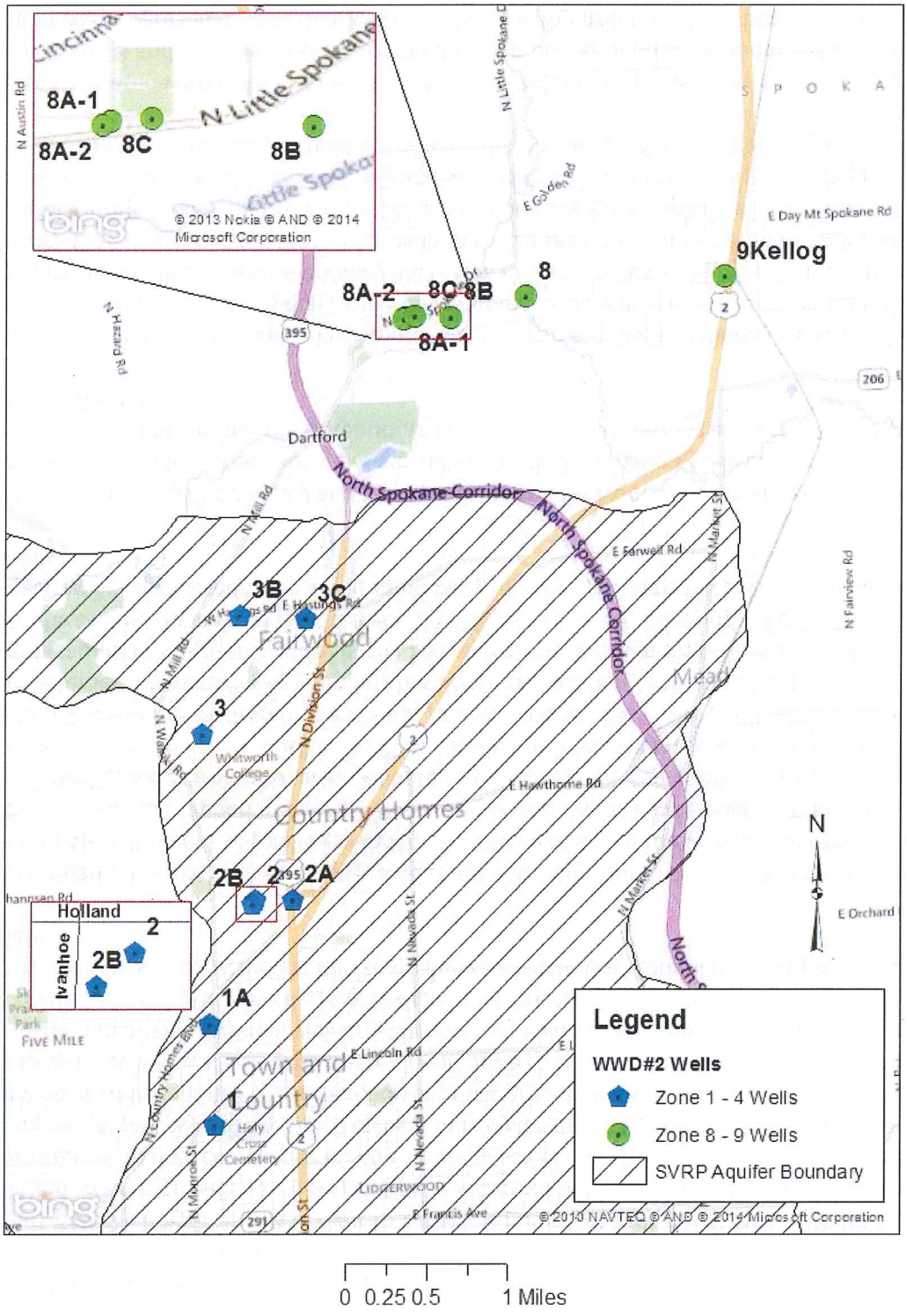
John Covert, Hydrogeologist with Ecology, provided the following analysis: WWD#2 utilizes wells located in two distinct bodies of public groundwater. The locations of the wells being utilized in Whitworth's system are mapped in the figure attached below. Wells located within their Zones 1, 2, 3 and 4 are producing water from the unconsolidated sands and gravels of Hillyard Trough Arm of the Spokane Valley Rathdrum Prairie Aquifer (SVRPA). Static water levels measured in these wells indicate that the water table in this portion of the aquifer ranges between 1840' and 1700' above sea level. Long-term water level monitoring in wells located within this portion of the Aquifer demonstrates that the aquifer responds to changes in stage of the Spokane River. Wells in these Zones are all producing water from the SVRPA. As such, WWD#2 Wells 1, 1A, 2, 2A, 2B, 3, 3B, 3C as identified in their change applications, can be considered to be in the same body of public groundwater, allowing the integration of these wells.

In contrast, wells in WWD#2's Zones 8 and 9 are producing water from unconsolidated sands and gravels from aquifers in the Little Spokane River valley. Static water levels measured in the wells in the Pine River Park area indicate that the potentiometric surface is at elevations at least 100 feet lower than WWD#2's SVRPA wells.

Starting in the summer of 2005, water level monitoring equipment was installed in wells located within the Zones 8 and 9 areas. This equipment recorded water level data at the same frequency utilized at similar equipment installed in Spokane Valley Rathdrum Prairie Aquifer wells. The water level data collected since then demonstrates that these wells in the Zones 8 and 9 areas are producing water from a body of public groundwater that is different than the body associated with wells in Zones 1, 2, 3, and 4. As such, WWD#2 Wells 8, 8A1, 8A2, 8B, 8C, and 9, as identified in their change applications, can be considered to be in the same body of public groundwater, allowing the integration of these wells.

Water rights associated with wells in Zones 1, 2, 3, and 4 can't be integrated into water rights associated with wells in Zones 8 and 9 as they represent two different bodies of public groundwater. Allowing the integration of water rights and wells that WWD#2 utilizes within the respective bodies of public groundwater outlined above will allow Whitworth the flexibility it needs to provide service to its customers at the same time as it protects the respective bodies of groundwater in a priority based system.

Whitworth Water District #2 Wells



SPOKANE VALLEY/RATHDRUM PRAIRIE AQUIFER - EXISTING WELLS:

SOURCE	WELL #1	WELL #1A	WELL #2	WELL #2A	WELL #2B	WELL #3	WELL #3B	WELL #3C
Well ID#	ACH765	ABR544	BIO881	AHC766	AHC767	AHC770	AHC771	BCE958
Year drilled	2001	1955	1921	1964	1979	1962	1979	2002
Depth	320'	210'	163'	286	240'	134'	200'	458'
Diameter	12"	16"	72"	16"	20"	16"	20"	20"
Casing	---	---	---	253'	240'	92.5'	200'	355'
SWL	210'	155'	137'	150'	136'	46'	113'	93'
Land Elevation	2049'	1978'	1938'	1950'	1938'	1770'	1819'	1788'
GPM	1500	1560	1500	1800	4000	1700	3500	5200
Pump HP	200	150	75	150	400	150	350	400
Pump Type	VT	VT	VT	VT	VT	VT	VT	VT

SWL: Static water level; GPM: Gallons per minute; HP: Horsepower VT: Vertical Turbine

LITTLE SPOKANE RIVER AQUIFER - EXISTING WELLS:

SOURCE	WELL #8	WELL #8A1	WELL #8A2	WELL #8B	WELL #8C	WELL #9
Well ID#	AGC028	AHC773	BCE957	ABR181	AGC073	AHC777
Year drilled	2001	1970	1976	1988	2005	1948
Depth	130	189'	220'	236'	252'	83'
Diameter	12"	8"	20"	24"	24"	8"
Casing	88'	164.5'	176'	236'	192'	83'
SWL	50'	49'	53'	53'	67'	64'
Land Elevation	1633	1645'	1645'	1632'	1645'	1890'
GPM	512	700	4000	5000	4488	450
Pump HP	60	60	450	600	500	10
Pump Type	SUB	VT	VT	VT	VT	VT

SWL: Static water level; GPM: Gallons per minute; HP: Horsepower VT: Vertical Turbine SUB: Submersible

Impairment Considerations

A review of Ecology records was conducted for existing water rights, permits, and claims within the WWD#2 project area. The search focused primarily on the locations of the WWD#2 existing wells in portions of Sections 7, 8, 19, 20 and 30 within Township 26 North, Range 43 E.W.M. The review of Ecology WRTS database shows 18 Ground Water Certificates, 1 Ground Water Permit and 80 Ground Water Claims within this area. Most of the larger withdrawals are for Spokane County Water District No. 3 and Holy Cross Cemetery. The other certificates are smaller withdrawals of less than 60 gallons per minute. It appears that many of the water right claims are smaller withdrawals and the water use is limited. These claimed rights are separate systems that are not related to the WWD#2 system. The extent and validity of the above listed water rights, claims and exempt wells are not determined in this report.

The search found no existing water rights in the area which would be impaired through issuance of this application for change. The district's municipal wells have been continuously used for many years with no reported well interference. It is not anticipated that the proposed changes by the district will cause any impairment.

CONCLUSIONS

There is a water right available for change under Ground Water Certificate No. 4172-A.

When considering an application for change to a water right, Ecology must determine that the proposed change can be made without detriment or injury to existing water rights. Factors considered when determining potential impact include the following:

No Impairment to Existing Rights:
It is not anticipated that the proposed change/transfer would cause impairment to existing water rights.

No Detriment to the Public Welfare:
There has been no public expression of protest or concern regarding the subject proposal, and no findings through this investigation indicate that there would be any detrimental impact to the public welfare through issuance of the proposed change/transfer.

No Enhancement of the Original Right:
No withdrawal of water over and above what has been authorized for beneficial use would be authorized through approval of this change.

Same Source of Water:
The ground water to be withdrawn is supplied by the same body of public water.

RECOMMENDATIONS

Based on the above investigation and conclusions, I recommend that this request for a water right be approved in the amounts and within the limitations listed below and subject to the provisions listed above.

Authorized Quantities and Purpose of Use

The amount of water recommended is a maximum limit and the water user may only use that amount of water within the specified limit that is reasonable and beneficial:

Quantities:
750 gallons per minute and 1200 acre-feet per year

The total amount authorized under Whitworth Water District No. 2 existing water rights for Systems 1, 2, 3, 4 (Spokane Valley/Rathdrum Prairie) is limited to 14,900 gallons per minute and 11,931.7 acre-feet per year for municipal supply.

Purpose of Use:
Municipal Supply purposes

Points of Withdrawal:
Eight (8) Wells located as follows:

Source #	Location
Well 1	SE¼NW¼ of Sec. 30, T. 26 N., R. 43 E.W.M.
Well 1A	SE¼SW¼ of Sec. 19, T. 26 N., R. 43 E.W.M.

Well 2	NE¼NE¼ of Sec. 19, T. 26 N., R. 43 E.W.M.
Well 2A	NW¼NW¼ of Sec. 20, T. 26 N., R. 43 E.W.M.
Well 2B	NE¼NE¼ of Sec. 19, T. 26 N., R. 43 E.W.M.
Well 3	SE¼SW¼ or SW¼SE¼ of Sec. 7, T. 26 N., R. 43 E.W.M.
Well 3B	SW¼NE¼ of Sec. 7, T. 26 N., R. 43 E.W.M.
Well 3C	SW¼NW¼ of Sec. 8, T. 26 N., R. 43 E.W.M.

Place of Use:

The place of use (POU) of this water right is the service area described in the most recent Water System Plan/Small Water System Management Program approved by the Washington State Department of Health, so long as the water system is and remains in compliance with the criteria in RCW 90.03.386(2). RCW 90.03.386 may have the effect of revising the place of use of this water right.

9-9-14

Gene Drury, Report Writer *Date*

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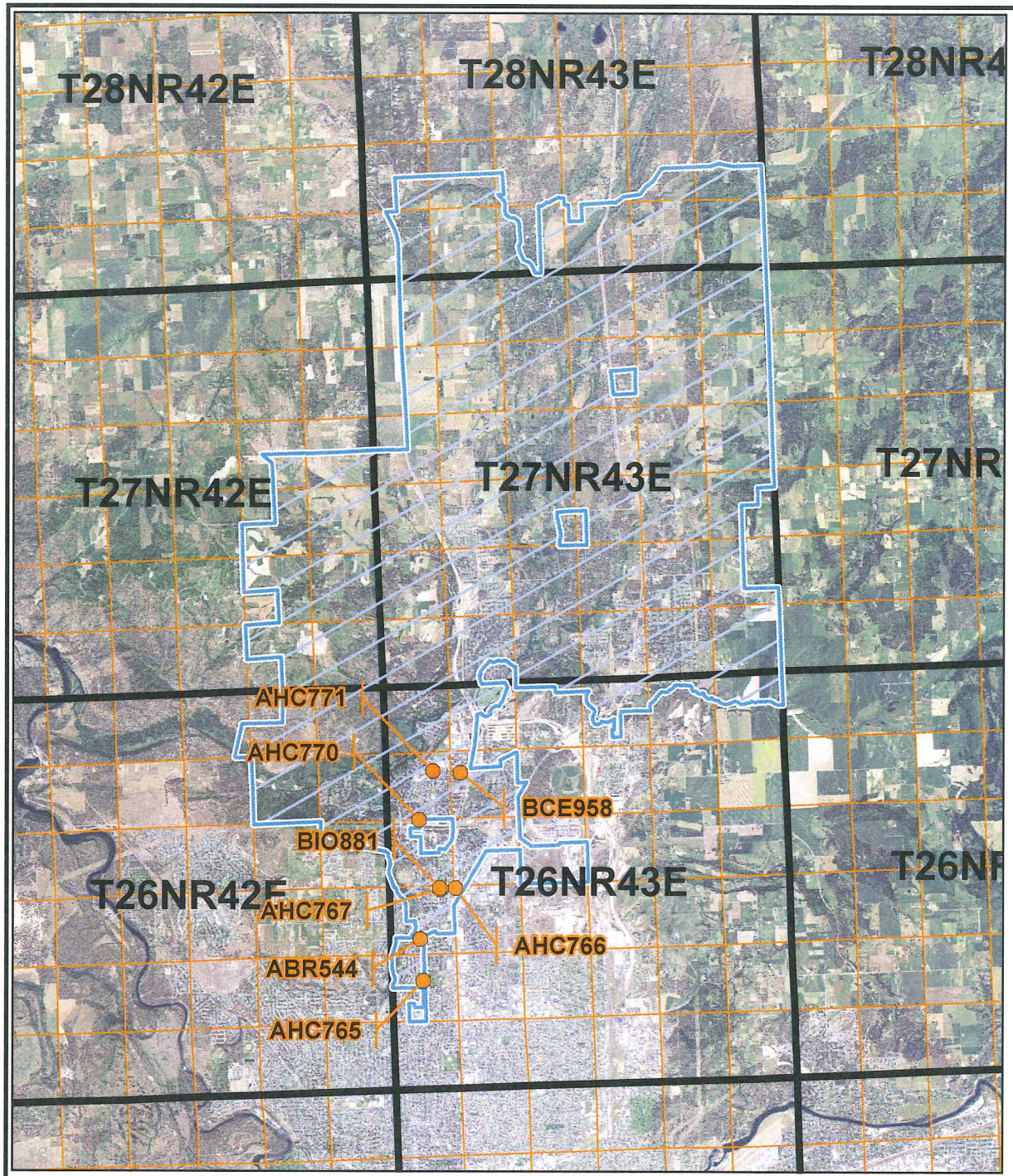
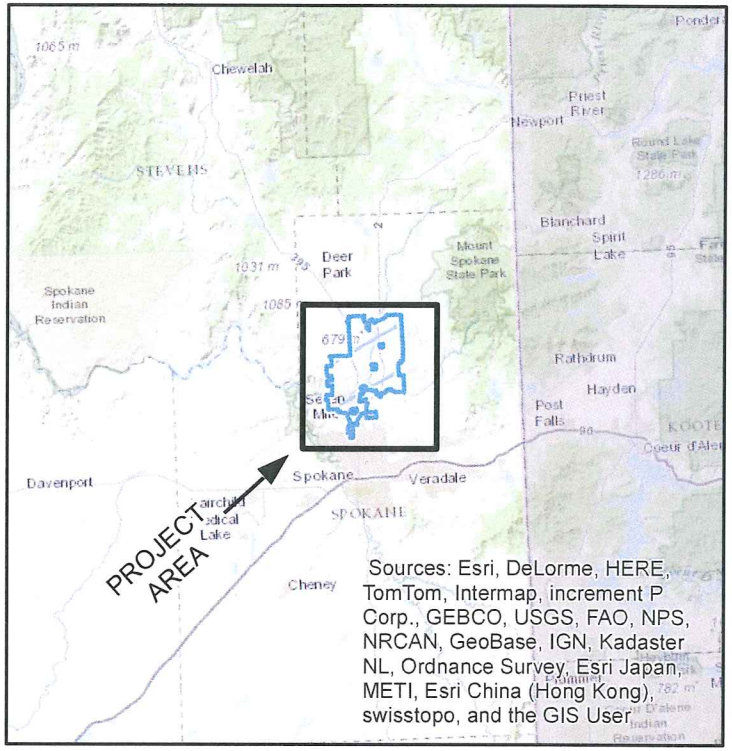
Whitworth Water District 2
Water Right Number 4172-A
T28N/R43E, T27N/R42E, T27N/R43E,
T26N/R42E, T26N/R43E





Basemap - (ESRI US Topographic Maps)

Legend

- Authorized Place of Use
- Townships
- Sections
- Authorized Point of Withdrawl

Feet
0 5,280 10,560 21,120 31,680 42,240

Basemap - (NAIP 2011 1m color)

DEPARTMENT OF ECOLOGY State of Washington

Map Date: 6/17/2014

Comment:
Place of use and source locations are as defined within the Report of Examination cover sheet for the document identfied in the header above.

ATTACHMENT 1