

# Appendix G. Certificates of Water Rights and Existing Water Rights Status Worksheets

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Risdon Well 1

Certificate G1-\*08632CWRIS



\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON  
DEPARTMENT OF CONSERVATION  
Division of Water Resources

Priority  
Date 1-30-67 3-30-67  
Time 9:30 AM 11:30 AM  
Accepted 270 WPL

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters  
OF THE STATE OF WASHINGTON

Application No. G. W. 8632  
8510 *EW*

I, City of Issaquah, Washington  
(Name of applicant)  
Box M  
of City Hall, Issaquah, Washington 98027  
(Complete post office address)

do hereby make application for a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights. This application is made under the provisions of Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject to the rules and regulations of the Department of Conservation, Division of Water Resources.

1. The proposed appropriation will be from Well  
(Well, tunnel, infiltration trench)  
located In City of Issaquah  
(Give approximate distance and direction from nearest city or town)  
Area \_\_\_\_\_ (Leave blank) Sub-area \_\_\_\_\_ (Leave blank)  
Zone \_\_\_\_\_ (Leave blank)

Applicant's name or number of well or other works, if any \_\_\_\_\_

2. The quantity of water which applicant intends to withdraw for beneficial use is 2,000  
gallons per minute; 3,220 acre feet per year.

3. The use or uses to which water is to be applied Municipal supply  
(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)

4. The time during which water will be required each year 12 months continuously

5. Location of well or other works for withdrawal of water: In county of King

(a) 1190'E & 720'S from west quarter corner of Sec 27  
(Give distance and bearing from nearest corner of section or legal subdivision)

being within the NW 4 SW 4 of Sec. 27, Twp. 24 N., Rge. 6E  
(Give smallest legal subdivision) (E, or W.)  
Rght-of-way of State Hwy No. 2, within Issaquah City limits, within NW 1/4 SW 1/4

or (b) If within limits of recorded platted property, town or city: Lot \_\_\_\_\_, Block \_\_\_\_\_,

of Issaquah  
(Give name of plat or addition) (If within town or city, give name)

(c) Show this location on accompanying section plat. Other adequate maps or drawings will be acceptable.

6. DESCRIPTION OF WORKS:

(a) Well will be drilled and have a diameter of 12 inches and an estimated depth of 150 feet.  
(Dug or drilled)

(b) Tunnels or trenches to be described: (Attach additional sheets if needed for full description.)

(c) Distribution system to be described:

Distribution system consists of 12" to 6" mains and smalled branches. 1,000,000 gal. service reservoir.

(d) If pumps are to be used, give size and type:

8" Turbine Type

(e) Give capacity and type of motor or engine to be used:

25 HP Electric

(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:

720' to East fork of Issaquah Creek stream bed is about 10 ft. below ground at proposed well site.

(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein:

<u>Darigold Company</u> (Name)	<u>West</u> (Direction)	<u>1,220 ft.</u> (Distance)
<u>Dan Risdon</u> (Name)	<u>North</u> (Direction)	<u>230 ft.</u> (Distance)
..... (Name)	..... (Direction)	..... (Distance)

SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:

7. For Municipal Supply: To supply the city, town, or community of Issaquah, in the county of King, having a present population of 4,000, and an estimated population of 12,000, in 19 76.

8. For Irrigation: Number of acres to be irrigated.....acres.

Fees for Filing and Recording Permits: There is a minimum fee of \$5.00 for filing and recording a permit.

For irrigation, permit fees are as follows:

40¢ per acre-up to and including 100 acres;

20¢ per acre over 100 acres to 1,000 acres, inclusive;

10¢ per acre over 1,000 acres.

Permit fee for other uses: Twice the examination fee.

Fee for filing and recording certificate: There is a minimum fee of \$5.00.

9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed)  
(If more space is required, attach separate sheet)

*City of Issaquah*

(On accompanying plat show location of the existing wells or works)

10. What interest do you have in the above described property?.....

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property?.....

If so, from what source? Springs *SN Cert 1087*

12. Construction work will begin on or before March 1, 1967

13. Construction work will be completed on or before April 1, 1967

14. Water will be put to complete beneficial use on or before May 1, 1967

HAMMOND, COLLIER & ISAAC

By: *George Hammond* City Engineer  
(Signature of applicant)

15. Name and address of owner of land on which well or works are located:

*City of Issaquah*  
(Name)

(Address)

(Signature of legal landowner)

Signed in the presence of us as witnesses:

(Name)

(Address of witness)

(Name)

(Address of witness)

STATE OF WASHINGTON, }  
COUNTY OF THURSTON. } 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 or completion as follows:

In order to retain its priority, this application must be returned to the State Supervisor of Water Resources, with corrections, on or before....., 19.....

WITNESS my hand this..... day of....., 19.....

State Supervisor of Water Resources.



STATE OF WASHINGTON, COUNTY OF King

### Certificate of Ground Water Right

Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Water Resources thereunder.

THIS IS TO CERTIFY That CITY OF ISSAQUAH  
of Issaquah, Washington, has made proof  
to the satisfaction of the Department of Water Resources of Washington, of a right to the use of  
the ground waters of a well

located within right-of-way of State Highway #2, within Issaquah City Limits, within  
NE 1/4 of  
Sec. 27, Twp. 24 N., R. 6 E. W.M.,

for the purpose of Municipal supply  
under and subject to provisions contained in Ground Water Permit No. 8181 issued by the De-  
partment of Water Resources and that said right to the use of said ground waters has been perfected  
in accordance with the laws of Washington, and is hereby confirmed by the Department of Water  
Resources of Washington and entered of record in Volume 13 at page 6343-A;  
that the right hereby confirmed dates from March 30, 1967; that the quantity of ground  
water under the right hereby confirmed for the purposes aforesaid, is limited to an amount actually  
beneficially used for said purposes, and shall not exceed 630 gallons per minute, 1000 acre-  
feet per year for municipal supply continuously during entire year for the City of  
Issaquah

Special provisions required by the Department of Water Resources: \_\_\_\_\_

A description of the lands to which such ground water right is appurtenant:

The City of Issaquah

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of  
use herein described, except as provided in Sections 6 and 7, Chapter 122, Laws of 1929.

This certificate of ground water right is specifically subject to relinquishment for nonuse of water  
as provided in Section 18, Chapter 233, Laws of 1967.

WITNESS the seal and signature of the Assistant Director, Division of Water Management, Depart-  
ment of Water Resources affixed this 28th day of February, 1969

Glen H. Lueder  
Assistant Director  
Division of Water Management  
Department of Water Resources

# Risdon Well 2

Certificate G1-\*10071CWRIS



\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON  
DEPARTMENT OF WATER RESOURCES  
Division of Water Management

RECEIVED
Date <u>3-11-69</u>
Time <u>2:20</u>
Accepted <u>[Signature]</u>

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters  
OF THE STATE OF WASHINGTON

Application No. G. W. 10071

I, City of Issaquah  
(Name of applicant)

of Issaquah, Washington  
(Complete post office address)

do hereby make application for a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights. This application is made under the provisions of Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject to the rules and regulations of the Department of Water Resources.

1. The proposed appropriation will be from a well  
(Well, tunnel, infiltration trench)

located in the city of Issaquah  
(Give approximate distance and direction from nearest city or town)

Area (Leave blank) Sub-area (Leave blank)

Zone (Leave blank)

Applicant's name or number of well or other works, if any

2. The quantity of water which applicant intends to withdraw for beneficial use is 2,000  
gallons per minute; 2,116 acre feet per year.

3. The use or uses to which water is to be applied municipal  
~~for municipal water supply~~

(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)

4. The time during which water will be required each year continuously  
~~year around - 24 hours a day~~

5. Location of well or other works for withdrawal of water: In county of King  
*To be verified by field*  
950 feet east and 545 feet south from west quarter corner of section 27  
(Give distance and bearing from nearest corner of section or legal subdivision)

being within the NE<sup>1</sup> NW 1/4 SW 1/4 of Sec. 27, Twp. 24 N., Rge. 6E  
(Give smallest legal subdivision) (E. or W.)

or (b) If within limits of recorded platted property, town or city: Lot         , Block         

of          (Give name of plat or addition) (If within town or city, give name)

(c) Show this location on accompanying section plat. Other adequate maps or drawings will be acceptable.

*Application Accepted*  
*3-5-69 - [Signature]*

6. DESCRIPTION OF WORKS:

(a) Well will be drilled and have a diameter of 12 inches and an estimated depth of 135 feet.  
(Dug or drilled)

(b) Tunnels or trenches to be described: (Attach additional sheets if needed for full description.)

(c) Distribution system to be described:

(d) If pumps are to be used, give size and type:

8 inch turbine

(e) Give capacity and type of motor or engine to be used:

50 HP Electric

(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:

800' to East Fork of Issaquah Creek. Stream bed is about 12' (feet) above the ground surface at the proposed site.

(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein:

<u>Rison</u> (Name)	<u>North</u> (Direction)	<u>230 feet</u> (Distance)
<u>Darigold</u> (Name)	<u>West</u> (Direction)	<u>1100 feet</u> (Distance)
<u>Issaquah</u> (Name)	<u>Same Location</u> (Direction)	<u></u> (Distance)

SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:

7. For Municipal Supply: To supply the city, town, or community of Issaquah, in the county of King, having a present population of 4,000, and an estimated population of 12,000, in 1970. *City limits only*

8. For Irrigation: Number of acres to be irrigated \_\_\_\_\_ acres.

9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed)  
(If more space is required, attach separate sheet)

AREA SERVED BY CITY OF ISSAQUAH

(On accompanying plat show location of the existing wells or works)

10. What interest do you have in the above described property? \_\_\_\_\_

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property? Yes

If so, from what source? City well and springs

12. Construction work will begin on or before May 1, 1969

13. Construction work will be completed on or before August 1, 1969

14. Water will be put to complete beneficial use on or before August 1, 1969

Hammond, Collier & Wade and Associates

David W. P. McHallen  
(Signature of applicant)

15. Name and address of owner of land on which well or works are located:

City of Issaquah  
(Name)

Issaquah, Washington  
(Address)

Morris McLean, City Clk.  
(Signature of legal landowner)

Signed in the presence of us as witnesses:

Raymond [Signature]  
(Name)

724 Buck St Issaquah  
(Address of witness)

(Name)

(Address of witness)

STATE OF WASHINGTON, }  
COUNTY OF THURSTON. } 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 or completion as follows:

In order to retain its priority, this application must be returned to the Department of Water Resources, with corrections, on or before \_\_\_\_\_, 19

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 19

Division of Water Management,  
Department of Water Resources.

# Report of Examination on Ground Water

Received date March 11, 1969 Date of exam. June 19, 1969 Appl. No. 10071  
 Name City of Issaquah Address Issaquah, Washington  
 Type of works well Dimensions 12" x 135'  
 Progress of works well drilled and capped (project started)  
 Quantity applied for 2000 g.p.m. 2116 acre-feet per year  
 Legal sub. NE 1/4, 34th Sec. 27 Twp. 24 N. Rge. 6 E. County King  
 Use municipal water supply  
 Irrigation-screage: Present \_\_\_\_\_ Planned \_\_\_\_\_ Feasible \_\_\_\_\_  
 Municipal: Population 12,000 as of 1976  
 Industrial \_\_\_\_\_  
 Time pump will be operated continuously  
 Other water rights appurtenant to this land Surface Water Cert. No. 1087 and Ground Water Cert. No. 6343  
 Proximity to existing works, springs, wells, or streams Risdon, north 230'; Durigold, west 1100'; Issaquah, Ground Water Cert. No. 6343, northeast 20'

Area \_\_\_\_\_ Sub-area \_\_\_\_\_ Zone \_\_\_\_\_

### RECOMMENDATIONS

Approved for 2000 g.p.m. 1600 acre-feet per year, subject to existing

water rights. (1 acre-foot 325,850 gallons.)  
 The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an air-line and gage in addition to the access port.  
 Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the State Director of Health prior to any new construction or alterations of a public water supply. The applicant is advised to contact the Washington State Department of Health, 304 Public Health Building, Olympia, with regard to the need for compliance.  
 In 1968 applicants utilized 203,000,000 gallons and had an average of 1200 services. Assuming an average of four persons per service, applicants 1968 demand was 117 gallons per capita per day. Allowing for an increase in the water

usage, this application is based on a per capita demand of 130 gallons per day. For the projected population of 12,000 persons to be served by this system, the estimated water need will be 1748 acre-feet.

The recommended quantity of 1600 acre-feet per year is based on pumping this well at 2000 gallons per minute up to 30 per cent of the time each year.

Applicants have Surface Water Certificate No. 1087 for 0.50 cubic foot per second, 363 acre-feet per year, and Ground Water Certificate No. 6343 for 630 gallons per minute, 1000 acre-feet per year comprising combined rights of 1363 acre-feet per year.


Therefore, permit will issue as follows: "Issued as a primary right for 383 acre-feet and as a supplemental right for 1213 acre-feet, the total annual withdrawal shall not exceed 1600 acre-feet, less any amount in excess of 168 acre-feet utilized under existing rights."

This application is approved for 2000 gallons per minute as requested. Applicant is reminded that the final water right certificate, when issued, will be reduced, if necessary, commensurate with the capacity of the completed system.

As provided under RCW 43.21.130, 90.03.360, 90.44.250 and 90.44.020, a master meter shall be installed in this system to measure the total amount of the withdrawal.

Applicants attention is invited to the fact that their surface water rights on the springs are inadequate. The highest yield in one day in 1968 from the springs was 1,468,000 gallons. A continuous diversion at the rate of 2.27 cubic feet per second for 24 hours would be required to attain 1968's peak demand. Any diversion in excess of 0.50 cubic foot per second is unauthorized.

Signed at Olympia, Washington  
this 15 day of Aug, 1969.

  
DEAN WOOD  
Water Resources Inspector  
Division of Water Management



STATE OF WASHINGTON  
DEPARTMENT OF WATER RESOURCES  
DIVISION OF WATER MANAGEMENT

Permit to appropriate Public Waters of the State of Washington

Book No. 13 of Ground Water Permits, on page 2221 under Application No. MS71

CITY OF ISSAQUAH

of Issaquah, Washington  
is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.

Priority date of this permit is March 11, 1962

Source(s) of the proposed ground water appropriation is/are a well

The quantity of water appropriated shall be limited to the amount which can be beneficially applied and not to exceed 2000 gallons per minute; 1600 acre-feet per year, to be used for the following purposes: municipal water supply

as more definitely set out below:

Approximate location (s) of the point (s) of withdrawal is/are 990 feet east and 345 feet south from west quarter corner of Sec. 27

being within MS101010101

of Sec. 27, Twp. 24 N., Rge. 6 E. W.M., King County

The use, or uses, to which water is to be applied:

Domestic/municipal supply: 2000 gallons per minute; 1600 acre-feet per year, during entire year.

Irrigation: \_\_\_\_\_ gallons per minute; \_\_\_\_\_ acre-feet per year from \_\_\_\_\_ to \_\_\_\_\_, each year, for the irrigation of \_\_\_\_\_ acres.

Other use(s): \_\_\_\_\_ gallons per minute; \_\_\_\_\_ acre-feet per year, from \_\_\_\_\_ to \_\_\_\_\_ each year, for \_\_\_\_\_

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by City of Issaquah

**ADDITIONAL LIMITATIONS AND PROVISIONS:** The installation and maintenance of an access port as described in Ground Water Bulletin No. 1 shall be required prior to issuance of final Certificate of Water Right.

Issued as a primary right for 300 acre-feet and as a supplemental right for 1215 acre-feet, the total annual withdrawal shall not exceed 1500 acre-feet, less any amount in excess of 140 acre-feet utilized under existing rights.

As provided under RCW 43.21.130, 43.03.200, 43.44.130 and 43.44.020, a survey meter shall be installed in this system to measure the total amount of the withdrawal.

**DESCRIPTION OF PROPOSED WORKS:**

The well will be drilled and have a diameter of 12 inches, and depth of 135 feet.  
(Dug or drilled)

Description of tunnel or infiltration trench: \_\_\_\_\_

**DEVELOPMENT SCHEDULE:**

Construction work shall begin on or before Started

and shall thereafter be prosecuted with reasonable diligence and completed on or before

September 1, 1970

and complete application of water to proposed use shall be made on or before

September 1, 1971

This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Water Resources on forms provided by that Department documenting such compliance.

Given under my hand and the seal of this office at Olympia, Washington, this 27th day of August, 1969

*John J. Lueder*  
Assistant Director  
Division of Water Management  
Department of Water Resources

ENGINEERING DATA  
OK

STATE OF WASHINGTON, COUNTY OF King

# CERTIFICATE OF GROUND WATER RIGHT

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology thereunder.)

THIS IS TO CERTIFY That CITY OF ISSAQUAH  
of Issaquah, Washington, has made proof  
to the satisfaction of the Department of Ecology of a right to the use of the public ground waters of  
the State of Washington from a well  
located within NE 1/4 NW 1/4 SW 1/4  
Sec. 27, Twp. 24 N., R. 6 E. W.M.,  
for the purpose ~~(X)~~ of municipal water supply  
under and specifically subject to provisions contained in Ground Water Permit No. 9292  
issued by the Department of Ecology and that said right to the use of said ground waters has been per-  
fected in accordance with the laws of Washington, and is hereby confirmed by the Department of Ecology  
and entered of record in Volume 15 at page 7031-A that the priority of the right hereby confirmed  
dates from March 11, 1969; that the quantity of ground water under the right hereby con-  
firmed for the aforesaid purposes, is limited to an amount actually beneficially used for said purposes,  
and shall not exceed 1200 gallons per minute; 1600 acre-feet per year, continuously  
during the entire year, for municipal supply.

A description of the lands to which such ground water right is appurtenant is as follows:  
**Area served by City of Issaquah.**

The right to use of water aforesaid hereby confirmed is restricted to the lands or place of use herein  
described, except as provided in RCW 90.03.380, 90.03.390 and 90.44.020.

This certificate of ground water right is specifically subject to relinquishment for nonuse of water  
as provided in RCW 90.14.180.

Given under my hand and seal of this office at Olympia, Washington, this 8th day  
of October, 19 70.

JOHN A. BIGGS, Director  
Department of Ecology

Engineering Data

OK [Signature]

by [Signature]  
**Glen H. Fiedler**

Ground Water Permit No. ....

**Certificate of Ground Water Right**

Recorded in the Department of Ecology,

Olympia, Washington, in Book No. ....

..... of Ground Water Right

Certificates, on page ....., on the

..... day of .....

19.....

STATE OF WASHINGTON,

County of ..... } ss.

I certify that the within was received  
and duly recorded by me in Volume .....  
of Book of Water Right Certificates, at  
page..... on the ..... day of  
....., 19.....

Progress Sheet—Ground Water Application

9-1-70

NAME City of Issaquah  
Issaquah, Washington 98027 Assigned to  
G. W. APPLI. NO. 70391 PERMIT NO. 9292 CERT. NO. 7031 A  
AMENDED CANCELLED

Application received 3-11-69 Initial \$10.00 fee received 3-11-69  
Statement of additional examination fee \$ Sent Received  
Application returned for completion or correction Received

TEMPORARY PERMIT: Approved by Issued

PUBLICATION:  
O.K.'d by *SM* Date 3-14-69 Unrecorded *7/10/69* 4-22-69  
Protests Notice sent 3-18-69  
Filed  
Affidavit received and checked 4-22-69 Time expired 5-9-69  
Amended notice sent Affidavit received  
Time expires

DEPT. OF GAME REPORT

EXAMINATION Made 6-19-69 by *DM*  
O.K.'d for permit 8-22-69 by *CEL*  
Statement of permit fee sent 8-18-69 Amount \$20.00 Received 8-22-69

PERMIT NO. 9292 ISSUED 8-27-69

BEGINNING OF CONSTRUCTION: Notice sent *Started* Filed  
Extension fee \$ Extended to  
Extended to

WELL DRILLER'S REPORT: Sent 8-28-69 Filed 9-2-69

COMPLETION OF CONSTRUCTION: Notice sent 8-28-69 Filed  
\$2.00 extension fee Extended to  
To

PROOF OF APPROPRIATION: Sent Filed  
\$2.00 extension fee Extended to

Statement of certificate fee sent \$ Received 10-5-70

CERTIFICATE OF GROUND WATER RIGHT NO. 7031 A ISSUED 10-8-70

**Gun Club Well 3a**

**Certificate G1-22733C**



\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON  
DEPARTMENT OF WATER RESOURCES  
Division of Water Management

No other DOE Permits required TBM

PRIORITY
Date 9/1/76
Time 1:00-4/2/76
Accepted TISH

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters  
OF THE STATE OF WASHINGTON

G122733

WR 1A = 8

Application No. G. W. \_\_\_\_\_

I, CITY OF ISSAQUAH, WASHINGTON  
(Name of applicant)

of 130 E. Sunset Way (P.O. Box M), Issaquah, Washington 98027  
(Complete post office address)

do hereby make application for a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights. This application is made under the provisions of Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject to the rules and regulations of the Department of Water Resources.

1. The proposed appropriation will be from well  
(Well, tunnel, infiltration trench)

located within the city limits of Issaquah, Washington.  
(Give approximate distance and direction from nearest city or town)

Area \_\_\_\_\_ Sub-area \_\_\_\_\_  
(Leave blank) (Leave blank)

Zone \_\_\_\_\_  
(Leave blank)

Applicant's name or number of well or other works, if any #3

2. The quantity of water which applicant intends to withdraw for beneficial use is 300  
gallons per minute; 119 acre feet per year.

3. The use or uses to which water is to be applied municipal  
(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)

4. The time during which water will be required each year May through October

5. Location of well or other works for withdrawal of water: In county of King

From N.W. Corner of the N.W. Quarter of Section 34, T24N,  
(a) Range 6E, N.M. 551216 290E for 3040 1 ft.  
(Give distance and bearing from nearest corner of section or legal subdivision)

250' W & 1150' N of center of sec 34  
being within the SE 1/4 of NW1/4 of Sec. 34, Twp. 24 N., Rge. 6E  
(Give smallest legal subdivision) (E. or W.)

or (b) If within limits of recorded platted property, town or city: Lot \_\_\_\_\_, Block \_\_\_\_\_

of \_\_\_\_\_  
(Give name of plat or addition) (If within town or city, give name)

(c) Show this location on accompanying section plat. Other adequate maps or drawings will be acceptable.



**6. DESCRIPTION OF WORKS:**

(a) Well will be drilled and have a diameter of 8 inches and an estimated depth of 168 feet.  
(Dug or drilled)

(b) Tunnels or trenches to be described: *(Attach additional sheets if needed for full description.)*

(c) Distribution system to be described:

Water from said well shall be pumped through a 12" transmission main, which in turn enters the existing city water distribution system.

(d) If pumps are to be used, give size and type:

Pumping system has not been designed at this time. Design is awaiting well testing as to its capacity.

(e) Give capacity and type of motor or engine to be used:

(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:

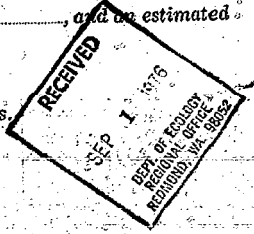
(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported herein:

City of Issaquah <small>(Name)</small>	North <small>(Direction)</small>	200 feet <small>(Distance)</small>
<small>(Name)</small>	<small>(Direction)</small>	<small>(Distance)</small>
<small>(Name)</small>	<small>(Direction)</small>	<small>(Distance)</small>
<small>(Name)</small>	<small>(Direction)</small>	<small>(Distance)</small>

**SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:**

7. For Municipal Supply: To supply the city, town, or community of Issaquah, in the county of King, having a present population of 4,850, and an estimated population of 10,000, in 19 90.

8. For Irrigation: Number of acres to be irrigated \_\_\_\_\_ acres



9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed)
(If more space is required, attach separate sheet)

Well #3 is located in a portion of the southeast quarter of the northwest quarter of Section 34, Township 24 North, Range 6 East, W.M., described as follows:

Beginning at the northwest corner of the northwest quarter of Section 34, thence South 2°00'11" west along the west line thereof 1823.2 feet; the south 87°59'49" east, at right angles, 2444.0 feet to the center of the casing of said well. Bearings refer to the Washington State Coordinate System, North Zone, as established by the King County Aerial Survey.

Area served by City of Issaquah

(On accompanying plat show location of the existing wells or works)

10. What interest do you have in the above described property? Owner

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property? Yes

If so, from what source? Well #4 (groundwater) concurrent application (G1-22734) for municipal - 600 gpm 7/14/76

12. Construction work will begin on or before September 1976

13. Construction work will be completed on or before November 1976

14. Water will be put to complete beneficial use on or before November 1976

City of Issaquah

By:

Handwritten signature of H. G. HERRINGTON

(Signature of applicant)

15. Name and address of owner of land on which well or works are located:

City of Issaquah (Name)

130 E. Sunset Way (P.O. Box M) Issaquah, WA (Address)

By:

Handwritten signature of H. G. HERRINGTON

(Signature of legal landowner) H. G. HERRINGTON, MAYOR

Signed in the presence of us as witnesses:

Linda Rueshle, Linda Rueshle, (Name) City Clerk

Gerald L. Osterman, Gerald L. Osterman, (Name) Admin. Assistant

City of Issaquah, P.O. Box M, Issaquah, WA 98027 (Address of witness)

City of Issaquah, P.O. Box M, Issaquah, WA 98027 (Address of witness)

STATE OF WASHINGTON, COUNTY OF THURSTON, 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 or completion as follows:

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

WITNESS my hand this day of 19

Division of Water Management, Department of Water Resources

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER

GROUND WATER

APPLICATION NO.  
G1-22733

PRIORITY DATE OF APPLICATION  
September 1, 1976

NAME  
CITY OF ISSAQUAH

ADDRESS (STREET) (CITY) (STATE) (ZIP CODE)  
130 East Sunset Way (P.O. Box M) Issaquah Washington 98027

Examination Date: January 20, 1977

PUBLIC WATERS TO BE APPROPRIATED

SOURCE  
Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND

MAXIMUM GALLONS PER MINUTE  
300.0

MAXIMUM ACRE-FEET PER YEAR  
119.0

QUANTITY, TYPE OF USE, PERIOD OF USE

Municipal Supply - continuously

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL

250 feet west and 1150 feet north of center of Sec. 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)

SE 1/4 NW 1/4

SECTION

34

TOWNSHIP N.

24

RANGE, (E. OR W.) W.M.

6 E.

W.R.I.A.

8

COUNTY

King

RECORDED PLATTED PROPERTY

LOT

BLOCK

OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON

Area served by City of Issaquah

**DESCRIPTION OF PROPOSED WORKS**

Well drilled 8" diameter, 168' deep.  
Detailed plans will be supplied prior to final Certificate.

**DEVELOPMENT SCHEDULE**

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	3 yrs from permit issuance	4 yrs from permit issuance

**PROVISIONS AND RECOMMENDATIONS**

Evaluation:

This Report of Examination began with a site visit on January 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally a review of the Ground Water Study and pump test results for the wells in question.

The City of Issaquah currently has two (2) certificates of water rights in good standing from the Risdon Wells Numbers 1 and 2 - Certificates Numbers 6343 and 7031 respectively. Your Comprehensive Water Plan also shows a certificate of water right No. 1087 from your water shed. This was relinquished by the City on October 2, 1970. Also, a pending 1970 Surface Water Application from seven springs on the East Water Shed is scheduled to be cancelled once these present applications are approved.

Recognizing that your system requirements are based on peak demands using instantaneous withdrawals and storage as key factors, we will normally approve a realistic request for additional instantaneous withdrawals, assuming no overriding factors occur. Our management of the resource, however, requires that we restrict your total annual permitted use from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 gallons per day/person or 0.224 acre-feet per year/person x 10,000 = 2,240 acre-feet per year (Maximum annual total from all your water rights). Quantities granted on your current two (2) ground water certificate exceeds this by 360 acre-feet per year; primarily due to past over estimation of population growth. This should create no major problem, however, as any annual quantities granted on these current requests would be supplemental to that presently approved.

A graphic look at your past, present and proposed water rights is as follows:

**WATER RIGHT CERTIFICATES**

Source	W.R.C. No.	Inst. Q	Annual Q.	
			Primary	Supplemental
Water Shed	S.W. 1087	Relinquished by the City October 2, 1970		
Risdon Wells				
No. 1	G.W. 6343	630 GPM	1000 AF/YR	
No. 2	G.W. 7031	1200 GPM	1600 AF/YR	

**PENDING APPLICATIONS**

Source	Application No.	Inst. Q.	Annual Q.	
			Primary	Supplemental
East Water Shed			To be canceled pending approval of Ground Water Application	
7 springs	21981	2.5 CFS		
Well #3	GL-22733	300 GPM		119 AF/YR
Well #4	GL-22734	600 GPM		645 AF/YR

### Conclusions

The pump tests substantiate availability of water in quantities requested. No evidence was found to show that this withdrawal, if approved, would have any effect on existing rights nor prove detrimental to the public interest. Therefore, having due regard to the highest feasible development of the use to public waters, I recommend this application should go to permit subject to existing rights and the following conditions.

### Special Conditions:

To be included on Permit and final Water Right Certificate -

"Instantaneous withdrawal shall not exceed 300 gallons per minute and the annual withdrawal shall not exceed 119 acre-feet per year" (Quantity approved based on quantity requested).

When approved "This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights." (Annual quantity calculated from estimated 1990 population of 10,000. Future increase to this annual quantity must be justified by population increase, or other unusual circumstances, and approved by this office.)

To be included on permit -

"All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

"The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port."

"A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040." (Installation, operation and maintenance requirements attached hereto.)

"Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute."

### Other Comments and Recommendations:


Applicant is advised that notice of proof of appropriation of water (under which final certificate of water right issues) 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.

Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the Assistant Secretary, Division of Health prior to any new construction or alterations of a public water supply. The applicant is advised to contact the Washington State Division of Health, Public Health Building No. 4, Thurston Airdustrial Center, Olympia, with regard to the need for compliance.

Upon approval of this application GI-22733 and/or accompanying application GI-22734 we shall initiate final action for cancellation of pending Surface Water Application No. 21981.

Signed at Redmond, Washington,

this 31 day of January, 1977.

  
ROY C. BISHOP  
Resource Management  
Department of Ecology

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER

GROUND WATER

APPLICATION NO. G1-22733	PRIORITY DATE OF APPLICATION 9-1-76
-----------------------------	--

NAME  
**CITY OF ISSAQUAH**

ADDRESS (STREET)  
**P.O. Box M - 130 East Sunset Way**

(CITY)  
**Issaquah**

(STATE)  
**Washington**

(ZIP CODE)  
**98027**

*1/20/77 RMB*

**PUBLIC WATERS TO BE APPROPRIATED**

SOURCE

**well**

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND

MAXIMUM GALLONS PER MINUTE

MAXIMUM ACRE-FEET PER YEAR

**300**

**119**

QUANTITY, TYPE OF USE, PERIOD OF USE

**municipal - continuously**

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL

**250 feet west and 1150 feet north of center of SEC 34**

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) <b>SE 1/4 NW 1/4</b>	SECTION <b>34</b>	TOWNSHIP N. <b>24</b>	RANGE (E. OR W.) W.M. <b>6 E</b>	W.R.I.A. <b>8</b>	COUNTY <b>King</b>
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**RECORDED PLATTED PROPERTY**

LOT BLOCK OF (GIVE NAME OF PLAT OR ADDITION)

**LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON**

*Fee 20 02*

BCY 070-16(1)

*Heath*  
REPORT OF EXAMINATION

DESCRIPTION OF PROPOSED WORKS

Well drilled  
8" dia 168' deep  
Detailed plans will be supplied prior to final certificate

DEVELOPMENT SCHEDULE

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	3 yrs from P. 2.	4 yrs from P. 2.

PROVISIONS AND RECOMMENDATIONS

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**PERMIT**  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER

GROUND WATER

PERMIT NUMBER G1-22733P	APPLICATION NUMBER G1-22733	PRIORITY DATE September 1, 1976
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NAME CITY OF ISSAQUAH			
ADDRESS (STREET) 130 East Sunset Way (P.O. Box M)	(CITY) Issaquah	(STATE) Washington	(ZIP CODE) 98027

*The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE  
Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 300.0	MAXIMUM ACRE-FEET PER YEAR 119.0
-------------------------------	-------------------------------------	-------------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE  
Municipal Supply - continuously

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL  
250 feet west and 1150 feet north of center of Sec. 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SELANNA	SECTION 34	TOWNSHIP N. 24	RANGE, E. OR W.J. W.M. 6 E.	W.R.I.A. 8	COUNTY King
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**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

**LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON**

Area served by City of Issaquah



**DESCRIPTION OF PROPOSED WORKS**

**DEVELOPMENT SCHEDULE**

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	March 15, 1980	March 15, 1981

**PROVISIONS**

Instantaneous withdrawal shall not exceed 300 gallons per minute and the annual withdrawal shall not exceed 119 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port.

A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040.

Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute.

*This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.*

Given under my hand and the seal of this office at Olympia, Washington, this .....15th..... day  
of ..... March ..... , 19 77 .....

**JOHN A. BIGGS, Director**  
Department of Ecology

ENGINEERING DATA

OK.....  
*[Signature]*

by *[Signature]*  
**ROBERT K. McCORMICK, Regional Manager**

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**CERTIFICATE OF WATER RIGHT**

- 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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE September 1, 1976	APPLICATION NUMBER G1-22733	PERMIT NUMBER G1-22733P	CERTIFICATE NUMBER G1-22733C
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NAME

CITY OF ISSAQUAH

ADDRESS (STREET)

130 East Sunset Way (P.O. Box M)

(CITY)

Issaquah

(STATE)

Washington

(ZIP CODE)

98027

*This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE

Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND

MAXIMUM GALLONS PER MINUTE

300.0

MAXIMUM ACRE-FEET PER YEAR

119.0

QUANTITY, TYPE OF USE, PERIOD OF USE

Municipal Supply - continuously

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

250 feet west and 1150 feet north of center of Sec. 34.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)

SE $\frac{1}{4}$ NW $\frac{1}{4}$

SECTION

34

TOWNSHIP N.

24

RANGE, (E. OR W.) W.M.

6 E.

W.R.I.A.

8

COUNTY

King

**RECORDED PLATTED PROPERTY**

LOT

BLOCK

OF (GIVE NAME OF PLAT OR ADDITION)

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

Area served by City of Issaquah.

PROVISIONS

Instantaneous withdrawal shall not exceed 300 gallons per minute and the annual withdrawal shall not exceed 119 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

*The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.*

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond Washington, this 31st day of August, 19 81

Department of Ecology

ENGINEERING DATA

OK *jj*

by *Robert K. McCormick*  
ROBERT K. McCORMICK, Regional Manager

FOR COUNTY USE ONLY

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

COMPUTER INPUT  
 APPLICATION  
 PERMIT  
 CERTIFICATE  
 OTHER

PROGRESS SHEET

SURFACE WATER  GROUND WATER

NAME CITY OF ISSAQUAH		TELEPHONE NO.	
ADDRESS 130 E. Sunset Way (P.O. Box M) Issaquah		(CITY)	(STATE) Washington
ASSIGNED TO		(ZIP CODE) 98027	DATE ASSIGNED
ADDRESS		(CITY)	(STATE) (ZIP CODE)
APPLICATION NO. <b>6-122733</b>	PERMIT NO. <b>6-122733</b>	CERTIFICATION NO. <b>6-122733</b>	
DATE AMENDED	DATE CANCELLED	W.R.T.A.	
<b>APPLICATION</b>			
DATE APPLICATION RECEIVED 9-1-76	INITIAL \$10.00 FEE RECEIVED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	DATE FEE RECEIVED 9-7-76	
STATEMENT OF ADDITIONAL EXAMINATION FEES	DATE SENT	DATE RECEIVED	
DATE RETURNED FOR COMPLETION OR CORRECTION		DATE RECEIVED	
<b>TEMPORARY PERMIT</b>			
APPROVED BY		DATE ISSUED	
<b>PUBLICATION</b>			
APPROVED BY <i>JK</i>	DATE APPROVED 9/15/76	DATE NOTICE SENT	
PROTESTED BY AND DATE			
DATE AFFIDAVIT RECEIVED 12-29-76	CHECKED BY <i>BS</i>	TIME EXPIRED 10-29-76	DATE AFFIDAVIT RECEIVED
<b>DEPARTMENT OF GAME AND FISHERIES REPORT</b>			
APPROVED	PROVISO	PROTEST	
<b>EXAMINATION</b>			
DATE EXAMINATION MADE 1/20/77	MADE BY <i>Ron B</i>	DATE REPORT OF EXAM. WRITTEN 1/28/77	WRITTEN BY <i>Ron B</i>
DATE PERMIT FEE REQUESTED 2/3/77	AMOUNT DUE 20.00	DATE RECEIVED 2-10-77	CHECKED BY <i>JK</i>
PERMIT APPROVED BY <i>JK</i>			
DATE APPROVED 3/11/77	PERMIT NO. <b>6-122733</b>	DATE ISSUED 3/15/77	
<b>BEGINNING OF CONSTRUCTION</b>			
DATE NOTICE SENT	DATE FILED	EXTENSION FEE	
EXTENDED TO		EXTENDED TO	
<b>WELL DRILLER'S AND/OR CONSTRUCTION REPORT</b>			
DATE SENT 3-16-77	DATE FILED <i>In File</i>		
<b>COMPLETION OF CONSTRUCTION</b>			
DATE NOTICE SENT 3-16-77	DATE FILED 3/31/80	EXTENSION FEE	
EXTENDED TO		EXTENDED TO	
<b>PROOF OF APPROPRIATION</b>			
DATE SENT	DATE FILED 6-12-81	EXTENSION FEE	EXTENDED TO
DATE CERTIFICATE FEE REQUESTED	AMOUNT DUE	DATE RECEIVED 6-12-81	DATE APPROVED FOR CERTIFICATE 7-14-81
			APPROVED BY <i>JK</i>
<b>CERTIFICATION</b>			
PROOF EXAM. REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO	CERTIFICATION NUMBER <b>6-122733</b>	DATE ISSUED 8-30-81	

REMARKS

ECY 070-17

PROGRESS

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Accepted By: <i>[Signature]</i>
Date: 5-21-97
Is Field Exam Required?
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Determined By: _____

RECEIVED

APR 30 1997

APPLICATION FOR CHANGE OF WATER RIGHT

- PURPOSE  DIVERSION OR WITHDRAWAL  
 PLACE  ADDITIONAL POINT OR POINTS

NAME: <u>CITY OF ECOLOGY</u> <u>CITY OF ISSAQUAH</u>	<b>DENIED</b>	Bus. Tel. <u>391-1004</u> Home Tel. _____ Other Tel. _____
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ADDRESS: <u>PO Box 1307</u>	(CITY) <u>Issaquah</u>	(STATE) <u>Washington</u>	(ZIP CODE) <u>98027</u>
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APPLICATION NUMBER <u>G1-22733</u>	PERMIT NUMBER <u>G1-22733P</u>	CERTIFICATE NUMBER <u>G1-22733C</u>
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DECREED RIGHT (TITLE OF CASE)

APPROPRIATIONS MADE (GIVE DATE IF PRIOR TO JUNE 7, 1917 IF SURFACE WATER, OR JUNE 7, 1945 IF GROUND WATER)

IS THE WATER RIGHT RECORDED IN YOUR NAME?  YES  NO IF NO, GIVE NAME RECORDED UNDER

1. RIGHT CONSISTS OF

WATERS USED FROM (STREAM, LAKE, WELL, OR TRENCH, ETC.) <u>Well</u>	GALLONS PER MINUTE OR CUBIC FEET PER SECOND <u>300 gpm</u>
WATER CURRENTLY USED FOR <u>Municipal Supply</u>	TIME OF USE <u>Continuously</u>

2. LOCATION OF PRESENT POINT OF DIVERSION OR WITHDRAWAL

ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.  
250 feet west and 1150 feet north of center of Section 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) <u>SE 1/4 NW 1/4</u>	SECTION <u>34</u>	TOWNSHIP N. <u>24</u>	RANGE (E. OR W.) W.M. <u>6E</u>	COUNTY <u>King</u>
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IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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3. LEGAL DESCRIPTION OF LANDS WATER IS USED ON

Within the corporate limits of the City of Issaquah

SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY <u>King</u>
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(ATTACH SEPARATE SHEET IF NECESSARY)

ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS?  YES  NO IF NO, EXPLAIN YOUR INTEREST

REASONS FOR THE PROPOSED CHANGE  
Well capacity dropped due to poor construction and City no longer owns property where well was sited.

A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION

CONTINUE ON REVERSE SIDE

CHANGE

4. **CHANGE REQUESTED**

CHANGE WATER USE TO N/A	TIME OF USE N/A	GALLONS PER MINUTE OR CUBIC FEET PER SECOND N/A
----------------------------	--------------------	--

5. **LOCATION OF PROPOSED POINT OF DIVERSION OR WITHDRAWAL**

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER.

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

920 feet west and 110 north of SE corner of NW 1/4 of Section 21

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE 1/4 NW 1/4	SECTION 21	TOWNSHIP N. 24	RANGE (E. OR W.) W.M. 6E	COUNTY King
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6. **IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

ARE YOU THE OWNER OF THE LAND ON WHICH THE PROPOSED POINT OF DIVERSION OR WITHDRAWAL IS TO BE LOCATED

YES  NO

**LEGAL DESCRIPTION OF LANDS WATER IS USED ON**

Within the corporate limits of the City of Issaquah

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SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY King
---------	-------------	-----------------------	----------------

(ATTACH SEPARATE SHEET IF NECESSARY)

ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS IF NO, EXPLAIN YOUR INTEREST

YES  NO

\* PLEASE NOTE LEGAL LAND OWNER SIGNATURE AND APPLICANT SIGNATURE ARE BOTH REQUIRED. IF THE LEGAL LAND OWNER AND APPLICANT ARE THE SAME, PLEASE SIGN IN BOTH PLACES. THANK YOU.

\_\_\_\_\_  
LEGAL LANDOWNER (PLEASE PRINT)

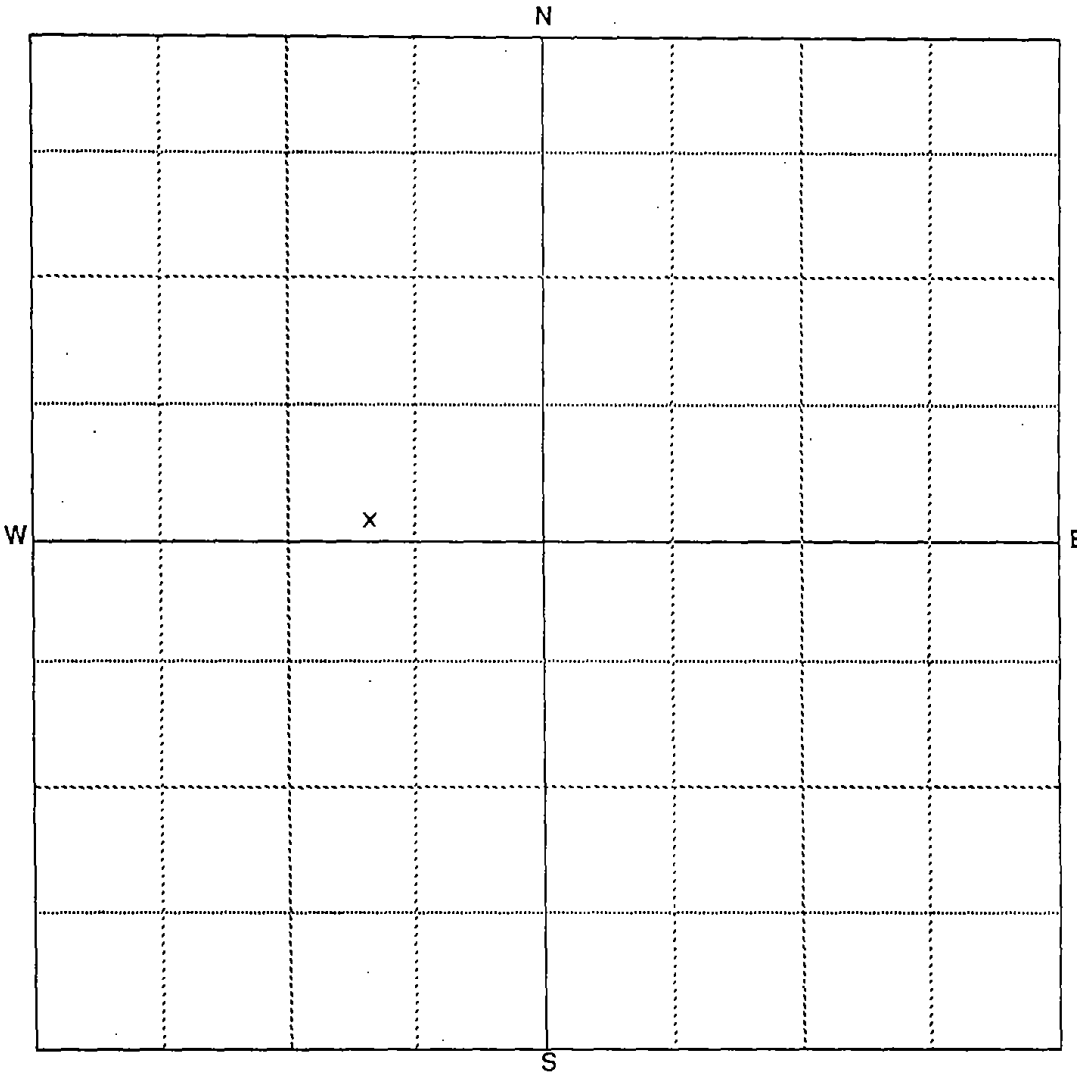
*Arman Hinds*  
\_\_\_\_\_  
APPLICANT'S SIGNATURE

\_\_\_\_\_  
LEGAL LANDOWNER SIGNATURE (OWNER OF PROPERTY DESCRIBED IN ITEM NUMBER 3)

\_\_\_\_\_  
LEGAL LANDOWNER'S ADDRESS

SECTION MAP

Sec. 21 Twp. 24 N. R. 6E



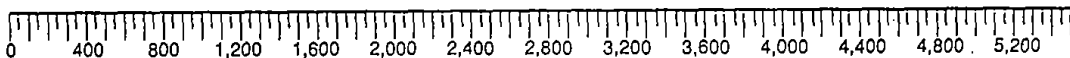
Scale: 1 inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile. Indicate traveling directions from nearest town in space below.

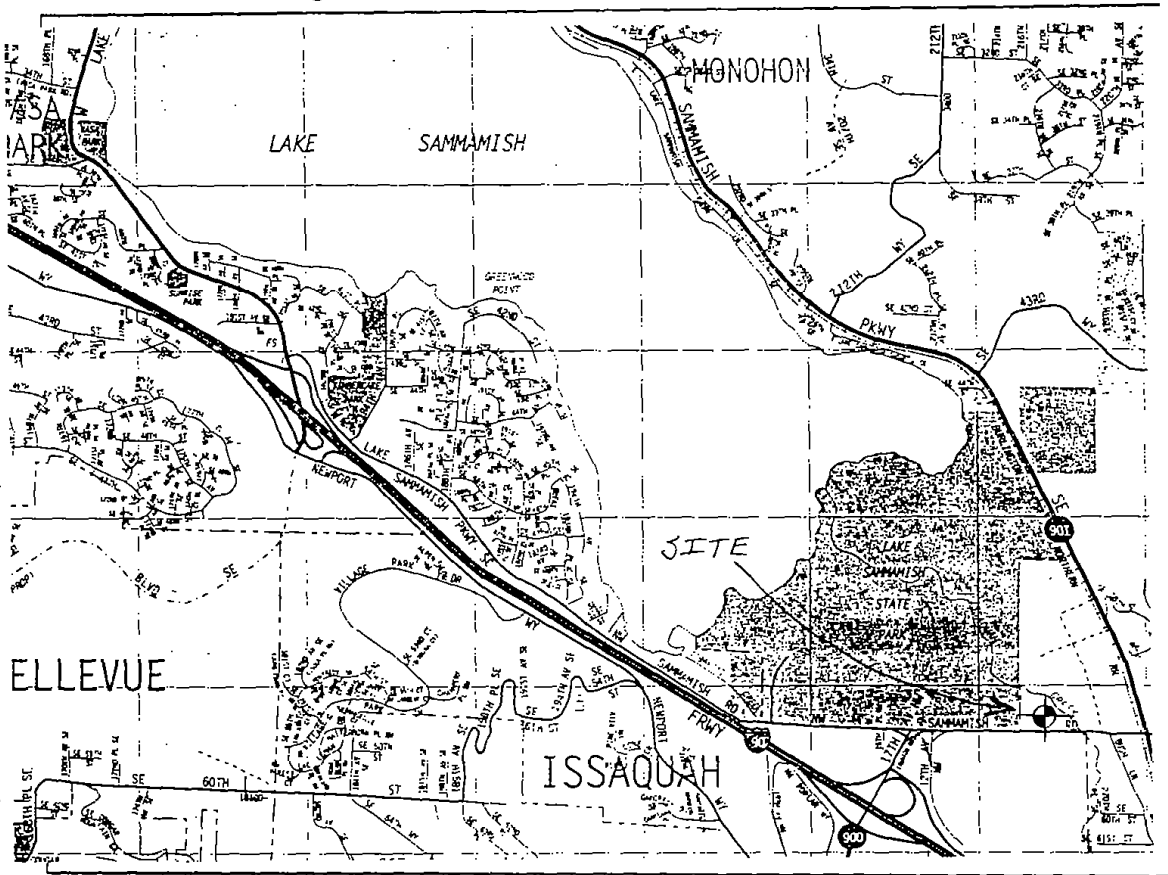
From Bellevue, Washington; take I-90 eastbound, exit off I-90 at Exit 15; go north to NW Sammamish Road (SE56th St.); go east on NW Sammamish Road approximately 3/4 mile. The site is located on the north side of NW Sammamish Road west of the retention ponds.

Detach here

Fold along scale



Detach this scale at the perforation, fold excess paper under or cut off excess by cutting along the scale line. This scale corresponds to the SECTION MAP above. You can read feet directly from this scale to outline property and locate points of diversion or withdrawal on the SECTION MAP. Enclose this map along with the application and \$10.00 examination fee.



Your water right application will be processed by the Regional Office of the Department of Ecology having jurisdiction in the area in which your water works are located. Please submit your completed application form, maps, sketches, and \$10.00 examination fee to the appropriate Regional Office.

Northwest Regional Office  
 3190 - 160th Avenue S.E.  
 Bellevue, WA 98008-5452  
 Tel. (206) 649-7000  
 TDD (206) 649-4259

Central Regional Office  
 15 West Yakima Avenue, Suite 200  
 Yakima, Washington 98902-3401  
 Tel. (509) 575-2490  
 TDD (509) 454-7673

Southwest Regional Office  
 PO Box 47775  
 Olympia, Washington 98504-7775  
 300 Desmond Drive  
 Lacey, WA 98503  
 Tel. (360) 407-6300  
 TDD (360) 407-6306

Eastern Regional Office  
 N. 4601 Monroe, Suite 100  
 Spokane, Washington 99205-1295  
 Tel. (509) 456-2926  
 TDD (509) 458-2055

The appropriate Regional Office will be happy to answer any further questions you may have.

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs please contact the appropriate Regional Office from above.



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APR 30 1997

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

DEPT. OF ECOLOGY

APPLICATION FOR CHANGE OF WATER RIGHT

- PURPOSE
- DIVERSION OR WITHDRAWAL
- PLACE
- ADDITIONAL POINT OR POINTS

Accepted By
Date
Is Field Exam. Required?
<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Determined By

RECEIVED

APR 29 1997

DEPT. OF ECOLOGY

CITY OF ISSAQUAH

FILE PAID

4/30/97

Bus. Tel. 391-1004

Home Tel. \_\_\_\_\_

Other Tel. \_\_\_\_\_

ADDRESS (CITY) (STATE) (ZIP CODE)

PO Box 1307

Issaquah

Washington

98027

APPLICATION NUMBER PERMIT NUMBER CERTIFICATE NUMBER

61-22733

61-22733P

61-22733C

DECREED RIGHT (TITLE OF CASE)

APPROPRIATIONS MADE (GIVE DATE IF PRIOR TO JUNE 7, 1917 IF SURFACE WATER, OR JUNE 7, 1945 IF GROUND WATER)

IS THE WATER RIGHT RECORDED IN YOUR NAME? IF NO, GIVE NAME RECORDED UNDER

YES  NO

1. RIGHT CONSISTS OF

WATERS USED FROM (STREAM, LAKE, WELL, OR TRENCH, ETC.) GALLONS PER MINUTE OR CUBIC FEET PER SECOND

Well

300 gpm

WATER CURRENTLY USED FOR TIME OF USE

Municipal Supply

Continuously

2. LOCATION OF PRESENT POINT OF DIVERSION OR WITHDRAWAL

ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

250 feet west and 1150 feet north of center of Section 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY

SE 1/4 NW 1/4

34

24

6E

King

IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION

LOT BLOCK OF (GIVE NAME OF PLAT OR ADDITION)

3. LEGAL DESCRIPTION OF LANDS WATER IS USED ON

Within the corporate limits of the City of Issaquah

SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY

King

(ATTACH SEPARATE SHEET IF NECESSARY)

ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS IF NO, EXPLAIN YOUR INTEREST

YES  NO

REASONS FOR THE PROPOSED CHANGE

Well capacity dropped due to poor construction and City no longer owns property where well was sited.

A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION

CONTINUE ON REVERSE SIDE

CHANGE

4. CHANGE REQUESTED		
CHANGE WATER USE TO N/A	TIME OF USE N/A	GALLONS PER MINUTE OR CUBIC FEET PER SECOND N/A

5. LOCATION OF PROPOSED POINT OF DIVERSION OR WITHDRAWAL

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER.

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

1346 feet north and 1780 feet west of the Center of Section 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE 1/4 NW 1/4 NW 1/4	SECTION 34	TOWNSHIP N. 24	RANGE (E. OR W.) W.M. 6E	COUNTY King
---	---------------	-------------------	-----------------------------	----------------

6. IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

ARE YOU THE OWNER OF THE LAND ON WHICH THE PROPOSED POINT OF DIVERSION OR WITHDRAWAL IS TO BE LOCATED

YES  NO

LEGAL DESCRIPTION OF LANDS WATER IS USED ON

Within the corporate limits of the City of Issaquah

SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY King
---------	-------------	-----------------------	----------------

(ATTACH SEPARATE SHEET IF NECESSARY)

ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS	IF NO, EXPLAIN YOUR INTEREST
<input type="checkbox"/> YES <input type="checkbox"/> NO	

\* PLEASE NOTE LEGAL LAND OWNER SIGNATURE AND APPLICANT SIGNATURE ARE BOTH REQUIRED. IF THE LEGAL LAND OWNER AND APPLICANT ARE THE SAME, PLEASE SIGN IN BOTH PLACES. THANK YOU.

\_\_\_\_\_  
LEGAL LANDOWNER (PLEASE PRINT)

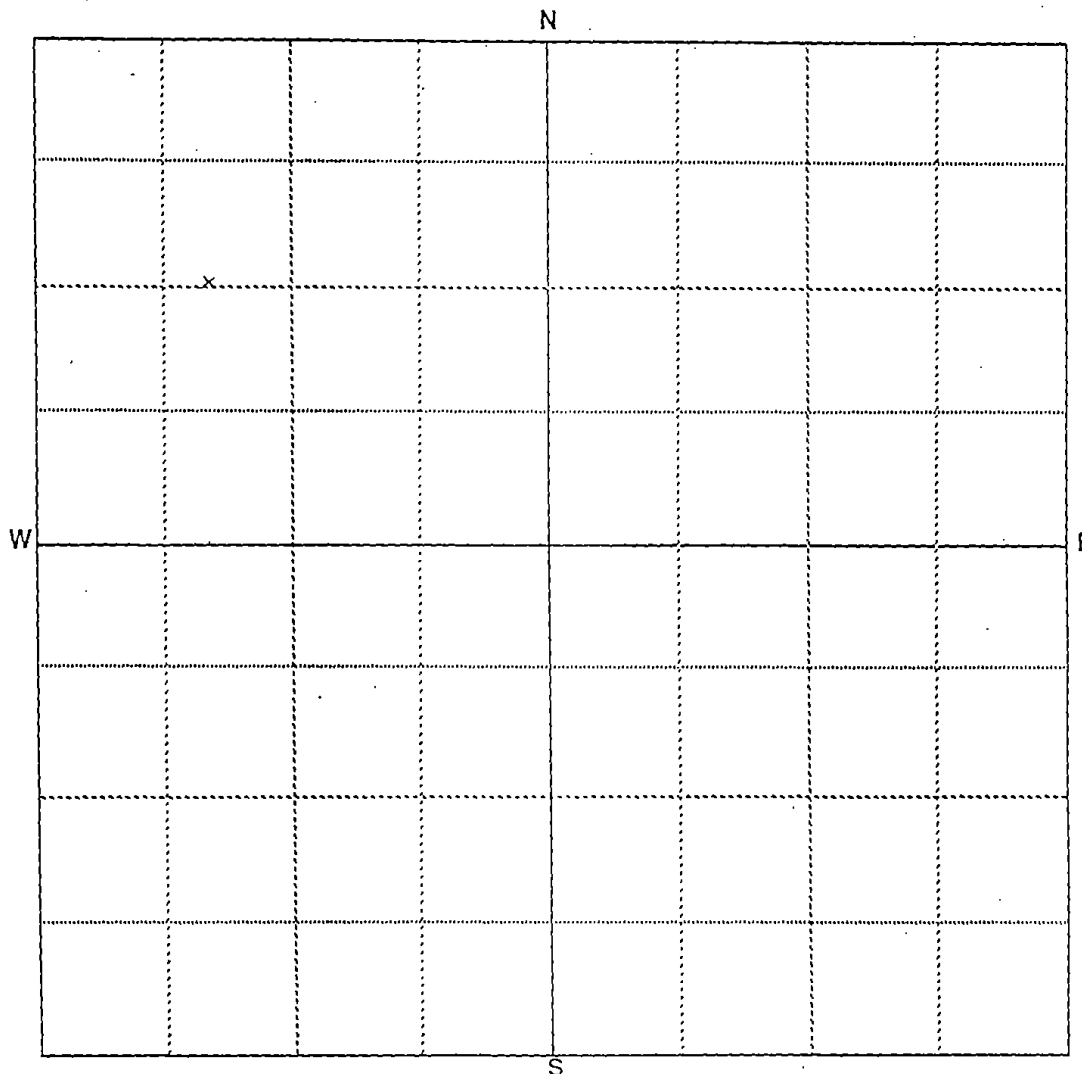
  
\_\_\_\_\_  
APPLICANT'S SIGNATURE

\_\_\_\_\_  
LEGAL LANDOWNER SIGNATURE (OWNER OF PROPERTY DESCRIBED IN ITEM NUMBER 3)

\_\_\_\_\_  
LEGAL LANDOWNER'S ADDRESS

SECTION MAP

Sec. 34 Twp. 24 N. R. 6E



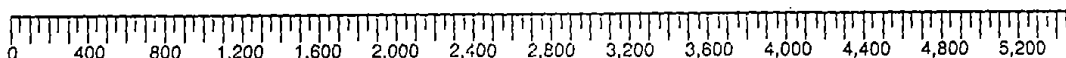
Scale: 1 Inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells of works within a quarter of a mile. Indicate travelling directions from nearest town in space below.

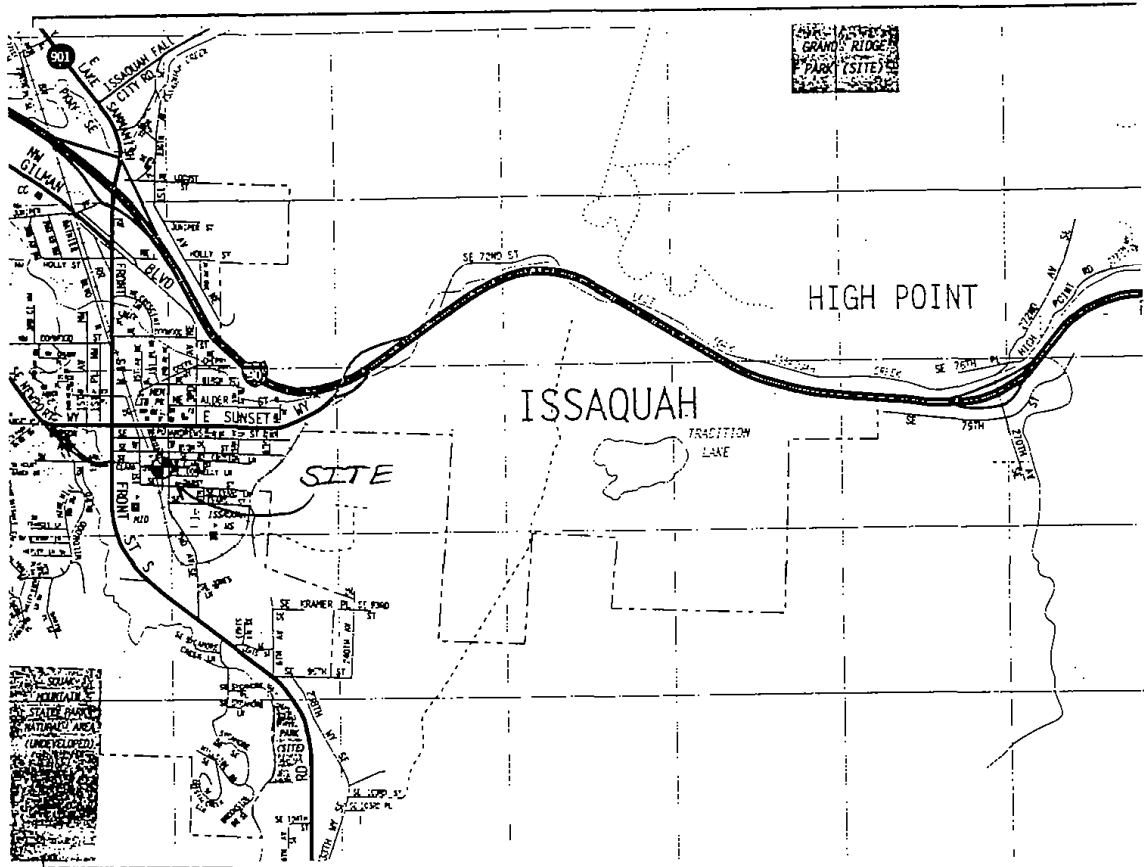
From Bellevue, Washington; take I-90 eastbound, exit off I-90 at Exit 17; go south on Front Street to SE Bush Street. Turn left (east) on SE Bush and go approximately 150 feet past the intersection with 1st Avenue SE and turn south into the parking lot. Go to southern end of parking area. Well site is between parking area and 2nd Avenue SE.

Detach here

Fold along scale.



Detach this scale at the perforation, fold excess paper under or cut off excess by cutting along the scale line. This scale corresponds to the SECTION MAP above. You can read feet directly from this scale to outline property and locate points of diversion or withdrawal on the SECTION MAP. Enclose this map along with the application and \$10.00 examination fee.



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APR 8 0 1997

DEPT OF ECOLOGY

May 1, 1997

Mr. Ray Hellwig  
Department of Ecology  
Northwest Regional Office  
3190 - 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008-5452

Subject: Applications For Change of Point of Diversion  
and Preliminary Pump Test Permit

Dear Mr. Hellwig:

Enclosed with this letter are four separate applications for changing the point of diversion of two existing water rights to two separate geographic locations. These applications should also be considered as the City's request for a Preliminary Permit to Drill and Test wells at the two geographic locations. Also, a check for twenty dollars (\$20) is enclosed for the processing of two of the four applications. Additionally, the City is requesting a at the following

The City is requesting that the Department of Ecology not publish the notice of application for the applications until test well drilling has been completed to determine which of the two locations is best suited for production well(s). Once a suitable location has been identified, the City will inform Ecology which two of the four applications to publish notifications for.

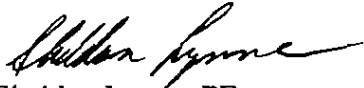
In February of this year, the City wrote Ecology a letter (February 19, 1997, to Buck Smith) requesting a "Pump Test Permit" in accordance with information given for the correct process. During a meeting with Mr. Smith, Mr. Svoboda, and Mr. Lyszak on April 18, the City was informed that an application associated with either a change in water right or for new water right must be submitted to obtain a Preliminary Permit to Drill and Test a Well. Given that Ecology staff unknowingly mis-informed the City about the process, it is hoped that this request for the Preliminary Permit to Drill and Test will be expedited to allow for drilling and testing this summer.

Department of Ecology  
May 1, 1997

Preliminary Pump Test Permit  
Gun Club Point of Diversion Change

Thank you for your attention to the City's application. Please contact me at 557-2505 if you have further questions or need additional information.

Sincerely,  
Public Works Engineering



Sheldon Lynne, PE  
City Engineer

cc: Project File (9543)  
Day File  
Greg Wilder, Public Works Director  
Buck Smith, Department of Ecology  
Jerry Lyszak, Department of Ecology  
Patrick Svoboda, Department of Ecology

**MEMORANDUM OF UNDERSTANDING**

**WATER RESOURCES PLANNING**

**LOWER ISSAQUAH CREEK VALLEY**

**April, 97**

**CITY OF ISSAQUAH**

---

**Rowan Hinds, Mayor**

**WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE**

---

**Bernard Shanks, Ph.D., Director**

**MUCKLESHOOT INDIAN TRIBE**

---

**Virginia Cross, Chairperson**

**Section 1; Background**

In 1995 the State Department of Fish and Wildlife (WDFW) commissioned the preparation of a Facilities Master Plan for the Issaquah fish hatchery. During the preparation of the Facilities Plan issues surrounding water resources became evident in that there is opportunity to improve production of Coho and Chinook Salmon, improve stream flows, reduce the overall unit cost of producing these species at the Issaquah fish hatchery and improve conditions for egg incubation while maximizing natural spawning upstream of the hatchery. This can be done by providing groundwater to the facility. Another benefit associated with bringing groundwater to the facility is the opportunity to use the facility for egg rearing of rare, weak, or endangered stock from this and other basins.

While bringing groundwater to the facility is excellent, the idea brings with it the complexities of water rights, system reliability, capital and operational costs, and siting a well to produce the groundwater. In February 1973 a report was given to WDFW concerning the viability of siting a deep production well on the hatchery property. The report indicated that the soil stratigraphy below the hatchery site are not capable of producing quantities of water greater than that needed for single family domestic use.

Recognizing the needs of the fisheries resource in the Issaquah Creek Basin, the City of Issaquah offered the use of its production wells in producing groundwater for incubation during non-peak season times. This is in keeping with the City's commitment to the facility as demonstrated by an earlier \$500,000 donation to the State to operate and improve the facility.

**Recitations.**

Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah have an interest in the continued operation of the Issaquah Fish Hatchery;

Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah would like to increase production of salmonids while reducing the overall operating costs of the hatchery;

Whereas, the State of Washington, Muckleshoot Indian Tribe, and City of Issaquah recognize the need to jointly plan for and protect water resources;

Whereas, the State Department of Fish and Wildlife has recently completed a Facilities Master Plan which identifies sediment laden and pathogen containing, egg incubation water as one of the major issues in production levels and operations costs;

Whereas, the provision of groundwater to the hatchery will help ensure annual production levels of at least 2,000,000 Fall Chinook and 1,000,000 Coho Salmon;



Whereas, the State Department of Fish and Wildlife can exercise its prerogative as a utility customer regarding continued use of the City water system:

Whereas, the City owns and operates groundwater supply, transmission, and distribution facilities with system redundancies built in for reliability;

Whereas, the City has proposed a solution to the State Department of Fish and Wildlife and Muckleshoot Indian Tribe which will reduce costs of operations while maximizing salmonid production and natural spawning in the Issaquah Creek basin, protect and enhance fisheries habitat, and provide water supply as mandated under the State's Growth Management Act;

Whereas, the City of Issaquah has contributed \$500,000 toward operating and improving the Issaquah fish hatchery;

Whereas, there is a degree of certainty that the Lake Washington Chinook and Steelhead will be listed as endangered or threatened under the Endangered Species Act in late 1997, and that a supply of groundwater to the Issaquah Hatchery will aid in the implementation of the recovery plan for these species;

Whereas, the State Department of Fish and Wildlife are developing a recovery plan for Kokanee and that a supply of groundwater to the Issaquah Hatchery will aid in the implementation of this recovery plan;

Whereas, the Muckleshoot Indian Tribe and State Department of Fish and Wildlife recognize the importance of the water resources and that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights the City may apply for under this Memorandum of Understanding;

**NOW THEREFORE THE PARTIES AGREE AS FOLLOWS:**

Section 1. Those parties signing this Memorandum of Understanding agree to support the planning and development of the water resources in the Lower Issaquah Creek Valley as outlined in further sections.

Section 2. The City of Issaquah is committed to:

- A. Provide untreated groundwater to the Issaquah salmon hatchery at a rate of 600 gpm during the egg incubation period of October 1 through April 30, beginning in 1997, and on a yearly basis thereafter following receipt of transfer of non-consumptive water right from the State for 600 gpm;
- B. The City will provide untreated water to the hatchery from May 1 through September 30, and on a yearly basis thereafter at a rate of 600 gpm following receipt of a new consumptive use water right permit for 600 gpm, successful

change in 865 acre-feet of supplemental annual water rights to primary water rights, successful change in point of diversion of existing primary water rights (800 gpm) from the old Gun Club wells location to a new well, and construction of necessary facilities;

- C. Apply for a change in 865 acre-feet of supplemental annual water rights to Primary water rights;
- D. Apply for a change in point of diversion of existing primary water rights (800 gpm) from the old Gun Club wells location to a new well;
- E. Apply for 600 gpm new consumptive water rights;
- F. Perform hydrogeologic investigations to indicate that the potential impact of the new water rights are mitigated appropriately;
- G. Accept a transfer of non-consumptive water rights from the State Department of Fish and Wildlife to a City production well in the amount of 600 gpm and 968 acre-feet non-consumptive water rights;
- H. Construct the necessary wells and pumping facilities to produce the amount of water applied for in its water right applications and the amount being transferred to it by the State Department of Fish and Wildlife;
- I. Maintain the public water supply and distribution system to the point where connections to it are made.

Section 3. The Washington State Department of Fish and Wildlife is committed to:

- A. Transfer or change the point of diversion of non-consumptive water rights to a City of Issaquah production well in the amount of 600 gpm and 968 acre-feet;
- B. Recognize the importance of the water resources and that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights
- C. Work cooperatively with, and support the City of Issaquah in its efforts to obtain water rights and ensure that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights;
- D. Not appealing the City's applications for water rights to the Washington State Department of Ecology;
- E. Paying for the direct power costs associated with pumping 600 gpm for the period which it is delivered to the hatchery. The direct monthly power costs will be based on the actual unit (dollars per ccf) power costs for December of the preceding year and the amount of water passing through the meter to the hatchery. The unit power cost will remain constant for a period of 12 months, January through December and will be calculated in accordance with the following formula:

$$P_U = P_T \div Q_V \div 100$$

Where:

$P_U$  = Unit Power Cost

$P_T$  = Total power cost for wells during the month of December

$Q_V$  = Total quantity of water produced in cubic feet

The direct power costs billed will be calculated as follows:

- $P_D = P_U \times Q_M$

Where:

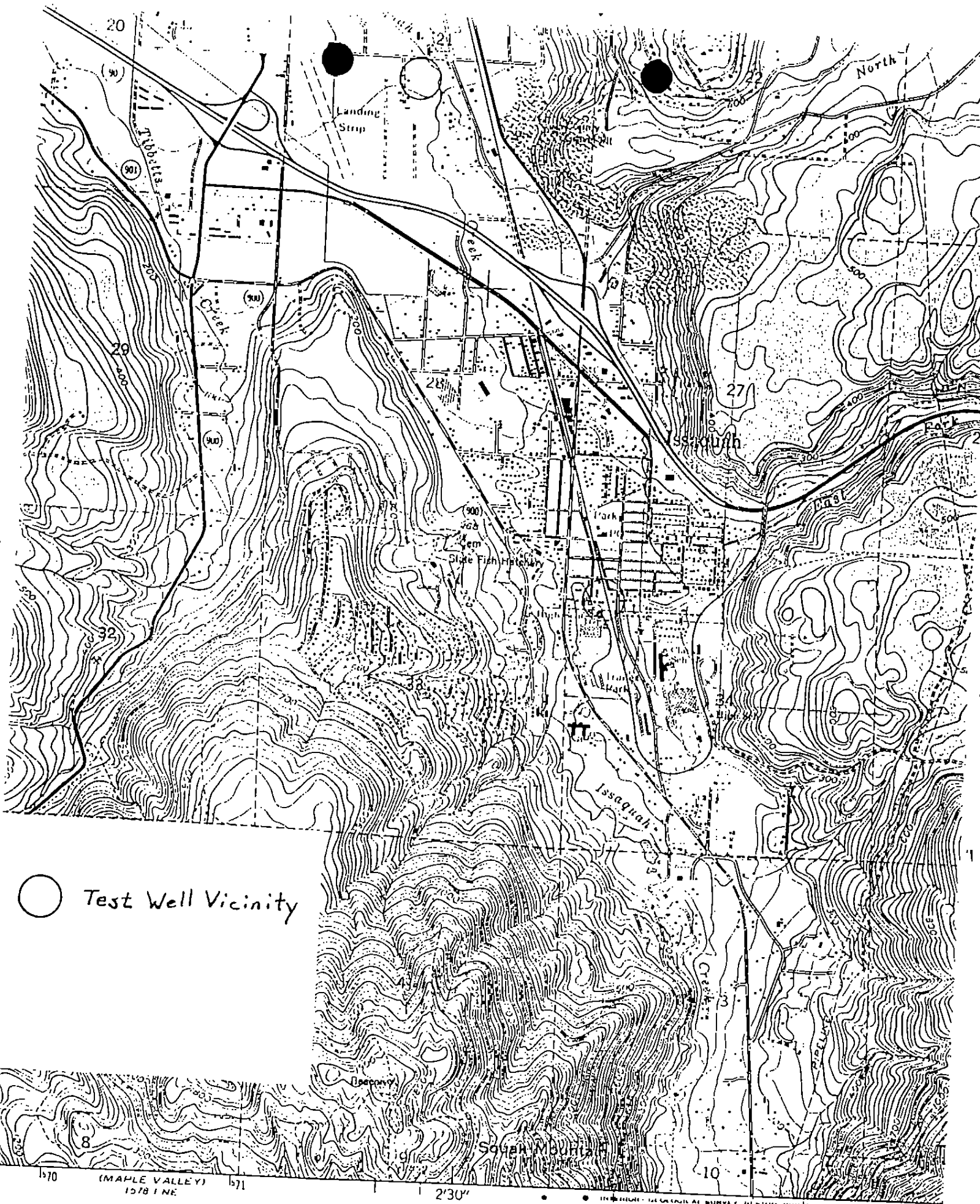
$P_D$  = Direct power cost

$P_U$  = Unit power cost as calculated above

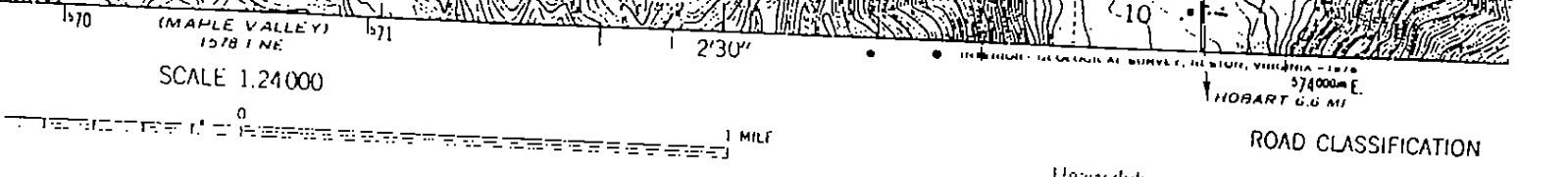
$Q_M$  = Volume (ccf) as determined by reading the water meter

Section 4. The Muckleshoot Indian Tribe is committed to:

- A. Recognize the importance of the water resources and the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights
- B. Work cooperatively with, and support, the City of Issaquah in its efforts to obtain water rights and ensuring that the benefit of the City supplying groundwater for egg incubation purposes to the hatchery is greater than the potential impact of additional consumptive water rights;
- C. Not appealing the City's applications for water rights to the Washington State Department of Ecology.



○ Test Well Vicinity



2279363

PROGRESS SHEET - APPLICATION FOR CHANGE

CERTIFICATE NO. G1-22733C

NAME: City of Issaquah  
P.O. Box 1307  
Issaquah, WA 98027

**DENIED**

Appurtenant to Water Right Certificate No. G1-22733C

PURPOSE OF APPLICATION to change place

Application originally received 4/30/97 Fee Paid \$10 4/30/97

Returned for completion or correction \_\_\_\_\_

returned \_\_\_\_\_

*amended & correct by D. Wood 7/2/02*  
PUBLICATION: Ok'd by P.S. Date \_\_\_\_\_ Notice Sent 6/7/2002

Protests \_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_ by \_\_\_\_\_

Affidavit received and checked DPD Time Expires 8/16/02

EXAMINATION: Made 6/5/03 by D. Wood

CERTIFICATE: Ok'd for issue by \_\_\_\_\_ date \_\_\_\_\_

Statement of fee mailed \_\_\_\_\_ Amount \$5 \_\_\_\_\_

Fee received \_\_\_\_\_

Certificate of Change Issued \_\_\_\_\_ No. \_\_\_\_\_



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

JUN 15 2003

CERTIFIED MAIL

7002 3150 0004 8540 3619

City of Issaquah  
Attn: Sheldon Lynne  
P.O. Box 1307  
Issaquah, WA 98027

Dear Mr. Lynne:

RE: Denial of Ground Water Right Change - Application No. G1-22733C

Enclosed is the Department of Ecology's Report of Examination, No. G1-22733C. This report constitutes our determination and order regarding the above referenced application.

This change application has been **denied**.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of receipt of this Order**. Send the appeal to: Pollution Control Hearings Board, PO Box 40903, Olympia, Washington 988504-0903. At the same time, a copy of the appeal **must** be sent to: Department of Ecology, Water Resources Appeals Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of the date the Order was mailed** in the same manner described above. An appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320.

If you have any questions or concerns on the above information, please call the Department of Ecology at (425) 649-7000.

Sincerely,

Daniel L. Swenson  
Water Resources Supervisor  
Northwest Regional Office

DS:dh  
Enclosure:

I certify that I mailed this Order, or an identical copy thereof, postage prepaid, to the above addressee(s) this 13<sup>th</sup> day of June 2003. Deeder Hart (Signature)



U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: City of Issaquah  
 Attn: Sheldon Lynne  
 Street, Apt. No. or PO Box No. Box 1307  
 City, State, ZIP+4 Issaquah, WA 98027

PS Form 3800, June 2002 See Reverse for Instructions

7002 3150 8540 859 4000 05TE 2002

**STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY**

**REPORT OF EXAMINATION FOR CHANGE TO GROUNDWATER RIGHT  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON**

- Surface Water (Issued in accordance with the provisions of Chapter 177, Laws of Washington for 1977, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- Ground Water (Issued in accordance with the provisions of Chapter 203, Laws of Washington for 1985, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE: September 1, 1976	APPLICATION NUMBER: G1-22733A	PERMIT NUMBER: G1-22733P	CERTIFICATE NUMBER: G1-22733C
NAME: City of Issaquah			
ADDRESS (STREET): P.O. Box 1307	CITY: Issaquah	STATE: Washington	ZIP CODE: 98027

**PUBLIC WATERS TO BE APPROPRIATED**

SOURCE:  
Request Denied to change Point of Withdrawal to City of Issaquah Well #6

TRIBUTARY OF OR SURFACE WATER:

MAXIMUM CUBIC FEET PER SECOND:	MAXIMUM GALLONS PER MINUTE: N/A	MAXIMUM ACRE-FEET PER YEAR: N/A
--------------------------------	------------------------------------	------------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE:  
N/A

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION - WITHDRAWAL:  
700 feet west and 800 feet south of the NE ¼ of Section 28

LOCATION WITHIN (SMALL EST) LEGAL SUBDIVISION: NE ¼ SE ¼	SECTION: 28	TOWNSHIP N: 24N	RANGE E. OR W. OR M: 06E	WRIA: 8	COUNTY: King
---	----------------	--------------------	-----------------------------	------------	-----------------

**RECORDED PLATTED PROPERTY**

LOT:	BLOCK:	DEVELOPER NAME OF PLAT OR ADDITION:
------	--------	-------------------------------------

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

Water service area of the City of Issaquah as described in its 2002 Water System Plan, the boundaries of which are shown below.

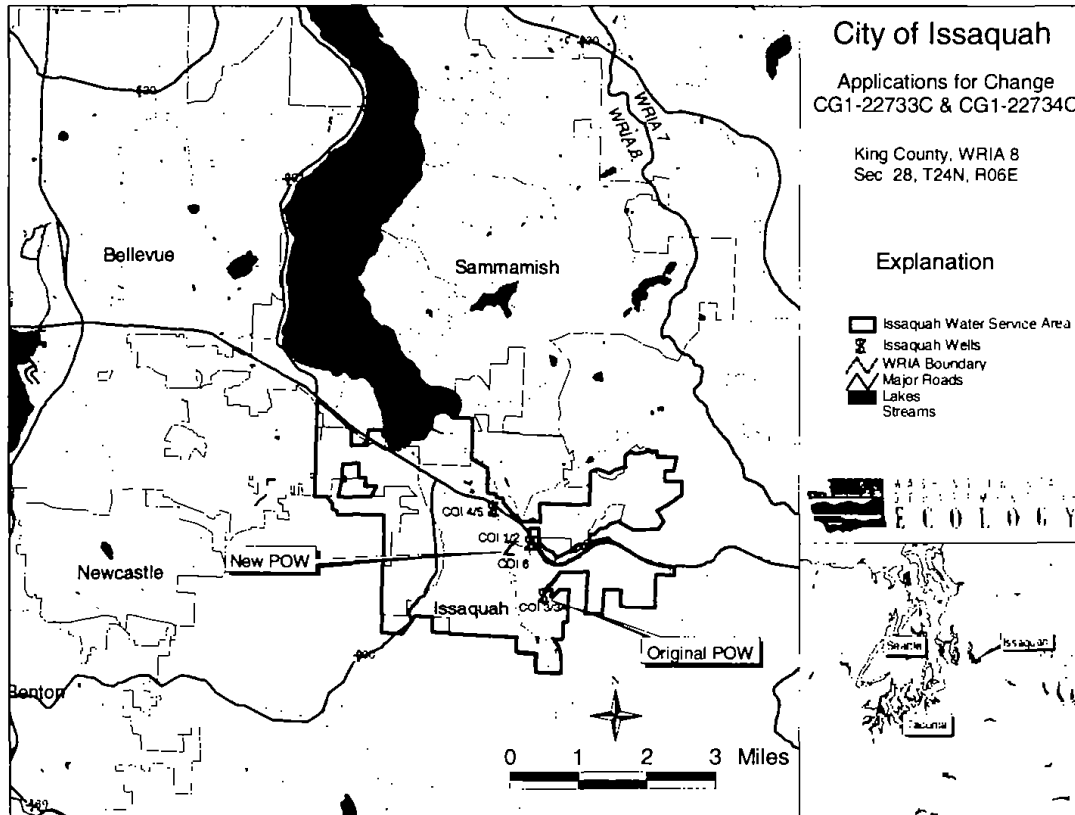


Figure 1: City of Issaquah water system service area and location of wells.



**DESCRIPTION OF PROPOSED WORKS**

City of Issaquah Well 6 (COI-6), drilled at a 16-inch diameter and tested in July 1998, was completed at a depth of 378 feet. A 20-inch diameter surface seal was installed to a depth of 18 feet. A 10-inch screen is installed from 258 to 363 feet.

**DEVELOPMENT SCHEDULE**

PROJECT START DATE	COMPLETION DATE	DATE WHEN TO BE PUT INTO USE
Begun	N/A	N/A

**REPORT**

**BACKGROUND INFORMATION**

The City of Issaquah was granted surface water rights for the East Fork (East Fork) of Issaquah Creek in 1936. This surface water right (SWC 1087) became unusable when Interstate 90 was built over the diversion structure in the early 1970's through the East Fork watershed. The water right that is the subject of this application for change (G1-22733C and companion application G1-22734C) was filed with Ecology in 1976 to serve as a replacement for their compromised East Fork surface water source.

At the time water under G1-22733C and G1-22734C was allocated for wells COI-3A and COI-3 respectively, the City was utilizing groundwater from City of Issaquah Wells 1 and 2 (COI-1 and COI-2), located between Gilman Boulevard and Interstate 5, east of Front Street in the city of Issaquah. The water rights for COI-1 and COI-2 were allocated a total Qa of 2600 afy, which Ecology in 1977 believed adequate to accommodate the estimated 10,000 population projected for the year 1997. For this reason the annual quantities under G1-22733C and G1-22734C were made supplemental to those for COI-1 and COI-2.

By the early 1990's City Wells 3A and 3 (COI-3A COI-3), utilizing water under G1-22733C and G1-22734C, were no longer able to produce an adequate supply of water due to construction errors. These wells were abandoned and decommissioned 1993. The City filed for a change in point of withdrawal for G1-22733C and G1-22734C in May 1997. Evidence provided by the City of Issaquah, including photographs of the well house and notes showing pumping records, the existence in the field of remaining infrastructure, as well as drill and decommission logs, and proof of appropriation documentation indicate that the city worked diligently toward perfection prior to filing an application for amending the water right.

**Attributes of the Original Certificate**

Name on Certificate:	City of Issaquah
Priority Date:	Sept. 1, 1976
Instantaneous Quantity:	300 gallons per minute (gpm)
Annual Quantity:	119 acre-feet per year (afy) *supplemental to GWC 6343 and 7031
Point of Withdrawal:	SE¼ NW¼ of Section 34, Township 24 North, Range 6 East
Purpose of Use:	Municipal Supply
Period of Use:	Continuously
Place of Use:	Area Served by City of Issaquah

**Proposed Change**

Name of Applicant:	City of Issaquah
Date of Application for Change:	April 30, 1997
Point of Withdrawal:	NE¼ SE¼ of Section 28, Township 24 North, Range 6 East
Notice of Publication:	The Issaquah Press – July 10 and July 17, 2002
Protests:	None

**INVESTIGATION**

In considering this application, my investigation included, but was not limited to research and/or review of:

- The State Water Code
- Existing water rights on file for City of Issaquah Water System
- Records of other water rights in the vicinity
- Notes from a site visit on March 18, 2002
- Correspondence from Sheldon Lynn, City of Issaquah Public Works Department
- GIS, topographic and local area maps
- City of Issaquah 2002 Water Comprehensive Plan Draft
- Issaquah Creek Valley Groundwater Management Plan, March 1999
- Reports on wells tests and groundwater exploration (Golder, 2000a), geophysical survey (Golder, 1997), and computer groundwater modeling (Golder, 2000b), all prepared by Golder Associates for the City of Issaquah.
- Technical Memorandum regarding "Technical Water Right Transfer Groundwater Withdrawal Issues From Well COI-6" prepared by Golder Associates hydrogeologist Robert Anderson, P.G. for the City of Issaquah (Golder, 2002).
- Technical Memorandum regarding the "Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed" prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe (Massmann, 2001).

Elements of this report dealing with hydrogeological assessment of the proposed water right change were prepared by the author, Douglas H. Wood, a Washington State licensed hydrogeologist (License #952).

**State Water Code**

Chapter 90.44 RCW authorizes the appropriation of public groundwater water for beneficial use and describes the process for obtaining groundwater rights including the process to amend or change existing rights. Laws specifically governing the ground water right permitting process are RCW 90.03.250 through 90.03.340 and RCW 90.44.060. Changes or amendments to ground water rights are regulated under RCW 90.44.100 and RCW 90.03.290.

**Recorded Rights for the City of Issaquah Water System**

The City of Issaquah holds 6 certificates of water right (Table 1) with an aggregate annual quantity (Qa) allocation of 2,800 acre-feet per year (afy). Instantaneous quantity (Qi) allocated under these rights totals 3030 gallons per minute (gpm).

The city serves a population of approximately 11,000 (Year 2000 OFM) and serves some 7,515 ERU's (Equivalent Residential Units). The city's total year 2000 production was approximately 1,850 acre-feet, 8% of which was purchased from the City of Bellevue. Year 2001 production from operating city wells was approximately 1,600 acre-feet, as shown in Table 1. Planned and potential annexations (some of which have already occurred) and growth, based on a conservative annual growth factor 0.5%, as detailed in the City of Issaquah Draft 2002 Water Comprehensive Plan (2002 WCP), would expand the population to over 40,000 by the year 2020 serving nearly 18,000 ERU's. Based on an average daily consumption per ERU of 209 gallons per day (2002 WCP), the year 2020 projected Qa requirements would amount to approximately 4,200 acre-feet.

It is apparent from these growth estimates that the city's current water rights are inadequate. To address the forecasted shortfall in water needs, the City of Issaquah has contracted with the City of Seattle to supply surface water via a pipeline constructed in 2001. It is also apparent that the city's current approximately 60% usage of its allocated Qa of 2800 afy (Table 1) afy will likely rise to serve a portion of increased demand.

**Table 1: City of Issaquah Water Rights Summary**

Well #	Certificate #	Priority Date	Qi (gpm)	Qa (afy)	2001 Use (Gal)	2001 Use (afy)
COI-1	6343-A	03/30/67	630	1,000	78,110,000	240
COI-2	7031-A	03/11/69	1,200	1,600	221,320,000	680
COI-3A	G1-22733C	09/01/76	300	119*		
COI-3	G1-22734C	09/01/76	500	645*		
COI-4	G1-24809C	03/10/86	250	200	14,220,000	44
COI-5	G1-24633C	04/02/85	150	1,600**	207,620,000	637
<b>Total</b>			<b>3,030</b>	<b>2,800</b>	<b>521,270,000</b>	<b>1,600</b>

\* Supplemental to 6343-A and 7031-A (max cumulative = 2600 afy)  
 \*\* Supplemental to G1-24809C, 6343-A and 7031-A (max cumulative = 2800 afy less amount from Wells 3 and 3A)

**Other Water Rights in the Vicinity**

A search of the Ecology water rights records indicates that there are 33 water rights, including those held by the City of Issaquah, within an approximate 1 mile radius of the proposed point of withdrawal in this application (Table 2).

**Table 2: Issaquah Area Water Rights**

Name	WR No.	Purpose*	CFS	GPM	AFY	Priority	Sec	Tw	Rng	Qtr-Qtr	Sec
CARLSON B J	SWC-09859	IR,CI	-	-	3.6	7/16/1965	27	24	6E	NW/4NW/4	
CARLSON BERTIL J	S1-00626C	FS	0.18	-	-	6/27/1969	27	24	6E	NW/4NW/4	
Darigold Inc	G1-21648C	CI	-	-	1100	5/16/1974	28	24	6E	NE/4SE/4	
Darigold Inc	GWC-00311	CI	-	500	405	4/6/1949	28	24	6E	NE/4SE/4	
EISENTRAGER NORMA	S1-23145C	DS	0.001	-	0.5	6/9/1978	33	24	6E	SW/4SE/4	
HILLERY D R	SWC-04972	DS	0.005	-	-	10/9/1951	33	24	6E	NE/4NE/4	
HILLERY D R	SWC-04971	DS	0.005	-	-	10/19/1951	33	24	6E	E/2E/2NE/4	
KEES T D	SWC-11359	DS	0.01	-	1	2/16/1960	34	24	6E	SE/4SE/4	
Lakeside Gravel Co	GWC-00570	DS,CI	-	650	250	6/13/1950	27	24	6E	NW/4NW/4	
Lakeside Gravel Co	GWC-01327	DG,CI	-	850	316	8/18/1952	27	24	6E	NW/4NW/4	
LARSON E	SWC-04970	DS	0.01	-	-	10/9/1951	27	24	6E	SW/4SE/4	
MCCRAY E	SWC-04858	DS	0.005	-	-	5/1/1952	27	24	6E		
MILES L	SWC-01643	IR,DS	0.02	-	-	8/20/1937	27	24	6E	SE/4SW/4	
Mine Hill Community	SWC-06329	DM	0.2	-	-	5/27/1954	33	24	6E	SW/4NE/4	
NIX F E	SWC-01814	IR,DS	0.01	-	-	8/15/1941	27	24	6E		
Pickering Brothers	SWC-02985	DM	-	20	32	5/24/1956	28	24	6E	SW/4NW/4	
SMITH EUGENE	SWC-01780	IR,DS	0.05	-	-	8/25/1939	27	24	6E		
SPWSD	G1-00289C	MU	-	3200	936	1/20/1972	28	24	6E	NE/4NE/4	
SPWSD	G1-25428P	MU	-	2300	-	4/24/1989	28	24	6E	NE/4NE/4	
SPWSD	G1-26014P	MU	-	2000	1608	12/24/1990	27	24	6E	SW/4NW/4	
Squak Valley Water Club	SWC-07582A	DM	0.09	-	-	10/20/1958	33	24	6E	SE/4SE/4	
STONEBRIDGE E M	SWC-06600	DS	0.005	-	-	7/15/1952	33	24	6E	NE/4NE/4	
STROM WARNER A	SWC-04565	PO,DS	0.1	-	-	8/5/1936	33	24	6E	NE/4NE/4	
Washington DFW	SWC-01330	FS	10	-	-	1/28/1939	33	24	6E	NE/4SE/4	
Washington DFW	SWC-11478	FS	10	-	-	3/29/1968	33	24	6E	NE/4NE/4	
Washington DFW	S1-00735C	FS	16	-	-	11/14/1970	33	24	6E		
WILTSE F G	SWC-07573	DS	0.01	-	-	3/24/1958	33	24	6E	SE/4NE/4	

\* I=Irrigation, C=Commercial, F=Fire Safety, DS=Single Domestic, DG=General Domestic, DM=Multiple Domestic, MU=Municipal, PO=Power

Nineteen surface water rights are located in the immediate area of the proposed new point of withdrawal. These include 12 single hook-up domestic surface water rights (3 of which include irrigation), 4 for fish propagation (3 of which, totaling 36 cfs are held by Washington Department of Fish and Wildlife for use at the Issaquah Salmon Hatchery), one used for commercial purposes and irrigation, and two for community domestic water systems.

Surface and groundwater rights of significant quantity in the area of the proposed new well (Figure 2) include those used by the Lakeside Gravel Quarry (Qi = 1500 gpm, Qa = 566 afy), the WA Department of Fish and Wildlife (WDFW) Issaquah Salmon Hatchery (Qi = 36 cfs, non-consumptive), Darigold (Qi = 1600 gpm, Qa = 1637 afy), and the municipal water systems that share the Issaquah Valley Aquifer - Sammamish Plateau Water and Sewer District (Qi = 5500 gpm, Qa = 2109 afy) and the City of Issaquah (Qi = 3030 gpm, Qa = 2800 afy). The Sammamish Plateau water rights in the valley also include supplemental and seasonal rights allowing a pumping rate of up to 6,500 gpm during the winter months.

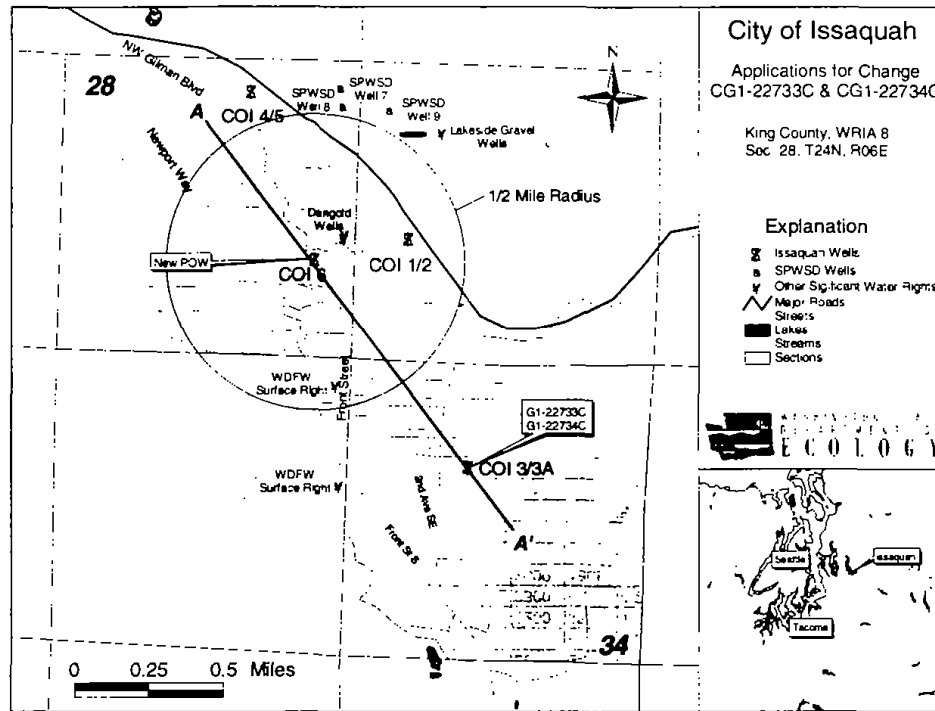


Figure 2: Detail map showing location of proposed changes and surface trace of geological cross-section (Figure 6).

#### Site Visit

The sites of COI-6 and the original COI-3A/3 location were visited by the author, Douglas Wood, on March 18, 2002. Water system infrastructure and well house foundations were examined at the former site of COI-3A/3. The COI-6 site was examined and it was noted that the well site is located in the city's works yard. The COI-6 wellhead is currently covered and fenced off to secure the site from potential contamination. Mr. Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, informed Ecology during the site visit that the city will soon relocate the city works yard, which will further protect the wellhead area.

#### Correspondence Received

The City of Issaquah was granted a Preliminary Permit to drill and test two wells to replace wells COI -3, and 3A on May 30, 1997. A letter from Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, dated February 23, 1998, informed Ecology that the results of the City's tests indicated that the new well for both water rights will be the well designated COI-6.

Mr. Steve Bessow of the Washington Department of Fish and Wildlife (WDFW), after reviewing the proposed changes for G1-22733C and G1-22734C, informed Ecology in a letter dated May 29, 2002, that WDFW has no objections or comments to these changes. In a letter dated February 14, 2003, Mr. Bessow, upon reviewing more recent information on the proposed new point of withdrawal, recommended that groundwater withdrawals in hydraulic continuity and Issaquah Creek be considered surface water diversions and thus closed to appropriation. He also requested that any replacement wells be denied if found to be in other than negligible hydraulic continuity the surface waters.

#### Topographic and Local Area Maps

Geological maps and reports, published through the US Geological Survey and from other sources relevant to this investigation were examined to provide geological and hydrological conditions relevant to the proposed change in point of withdrawal. Maps generated using ArcView GIS software were used to examine locations of the proposed new point of withdrawal in relation to other City wells, other water rights, and to Issaquah Creek and other surface water bodies.

#### City of Issaquah Water System Plans

The City of Issaquah 1996 Water System Plan Update and the Draft 2002 City of Issaquah Water Comprehensive Plan (2002 WSP) provide information on system infrastructure, existing system water rights, growth projections, and water system boundaries.

#### Issaquah Creek Valley Groundwater Management Plan

The 1999 Issaquah Creek Valley Groundwater Management Plan and supplemental Area Characterization provide hydrogeological background information and insight into water issues within the Issaquah area.

#### Golder Associates Reports for the City of Issaquah

City of Issaquah supplied their consultant's (Golder Associates) reports on groundwater assessment, geophysical studies of the Issaquah valley, well tests and aquifer modeling. These reports provided a detailed assessment of hydrogeological conditions within the Issaquah Valley Aquifer. The most recent detailed technical document supplied by the applicant is a

report entitled "Groundwater Exploration and Pumping Tests – Lower Issaquah Valley" dated October 30, 2000. This report (Golder, 2000a) contains pump tests data for the proposed new well (COI-6) and has cross-sections and hydrogeological interpretations based on these tests and geophysical and modeling studies relayed in earlier reports. The November 2000 report on modeling (Golder, 2000b) provides short and long-term modeled estimates of the effects on stream flows resulting from pumping at the proposed new point of withdrawal. Additionally, a technical memorandum presenting a comparison of the hydrogeological characteristics of the proposed new point of withdrawal with those of the original wells included in the application, prepared by Golder Associates hydrogeologist Robert Anderson in October 2002, was supplied the City of Issaquah (Golder, 2002).

**Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed**

The report, in the form of technical memorandum, was prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe, February, 2001. This report discusses the effects of groundwater withdrawals on stream flows in Issaquah Creek (Massmann, 2001).

**FINDINGS**

In accordance with Ecology policies and Washington State law, the following considerations were addressed during the process of evaluating this change request:

- Will the change create an enlargement of the original right?
- Has a protest been filed against the proposed change?
- Will the change cause impairment to other existing rights?
- Is water available at the new point of withdrawal?
- Does the new point of withdrawal tap the same source of water as the original right?
- Is there potential for different impacts on the water source?
- Will the proposed change be detrimental to public welfare?

**Potential for Enlargement**

Washington State statutory and case law require that approval of a groundwater change must not result in an enlargement of the right (RCW 90.44.100; Schuh v. Ecology, 100 Wn.2d 180; Merrill v. PCHB, 137 Wn.2d 118). In the Merrill decision the Washington Supreme Court also requires Ecology to evaluate whether the right has been relinquished to the State through non-use or abandonment.

Based on the Washington Supreme Court's 1998 Theodoratus case (135 Wn.2d 582), Ecology reviews applications for changes or amendments to groundwater certificates that were issued pursuant to RCW 90.44.080, where an evaluation was not performed as to the perfected annual quantity put to beneficial use before issuance of the certificate.

The proof of appropriation for G1-22733C was filed on June 9, 1981. The document states that instantaneous quantity was perfected in the amount of 700 gpm. Ecology permit writer Janet Jorg determined at that time that the actual pumping rate was 300 gpm, consistent with the permit, G1-22733P, issued March 15, 1977.

Based on proof of appropriation documentation, copies of notes on water production provided by the City of Issaquah, drilling and decommissioning logs on file with Ecology, and remaining infrastructure seen in field, it is tentatively determined that the right has been beneficially used for municipal supply purposes and is eligible for change.

The water right being investigated (G1-22733C) was certificated for municipal purposes. The right is therefore exempt from relinquishment for non-use under RCW 90.14.141(d).

The common law principal of abandonment is applicable in the case of municipal water rights. Common law abandonment, as discussed by the Supreme Court of Washington 1997 Twisp Case (133 Wn.2d 769), does not however apply to the current application. The City of Issaquah made efforts to replace the wells through the filing of this application in 1997, thus establishing that the city did not intent to abandon the right after decommissioning the well in 1993.

Certificate G1-22733C was issued in the amount of 300 gpm on August 31, 1981, with an annual quantity of 119 afy, supplemental to existing rights under certificates GWC 6343-A and GWC 7031-A.

<b>Table 3: 2001 City of Issaquah Well Production Records*</b>				
	<b>COI- 1</b>	<b>COI-2</b>	<b>COI-4</b>	<b>COI-5</b>
<b>JAN</b>	2,370,000	13,860,000	190,000	18,010,000
<b>FEB</b>	0	15,900,000	0	17,170,000
<b>MAR</b>	0	21,460,000	0	15,060,000
<b>APR</b>	0	15,246,000	0	18,570,000
<b>MAY</b>	5,540,000	17,766,000	0	21,000,000
<b>JUN</b>	11,420,000	22,176,000	0	10,290,000
<b>JUL</b>	11,660,000	28,917,000	2,240,000	14,740,000
<b>AUG</b>	10,660,000	24,633,000	3,190,000	21,690,000
<b>SEP</b>	8,640,000	20,601,000	2,550,000	20,790,000
<b>OCT</b>	9,880,000	11,907,000	1,630,000	20,290,000
<b>NOV</b>	8,960,000	13,797,000	2,110,000	14,410,000
<b>DEC</b>	8,980,000	15,057,000	2,310,000	15,600,000
<b>Total (gal)</b>	<b>78,110,000</b>	<b>221,320,000</b>	<b>14,220,000</b>	<b>207,620,000</b>
<b>Total (afy)</b>	<b>239.71</b>	<b>679.21</b>	<b>43.64</b>	<b>637.16</b>

\* Supplied by City of Issaquah

The annual quantity of 119 afy allocated under G1-22733C is supplementary to groundwater certificates 6343-A and 7031-A, therefore perfection of the annual quantity under G1-22733C requires that 119 afy be utilized in any year by the wells sharing the primary annual quantity (2600 afy).

Well production records for the year 2001 for city wells COI-1, COI-2 and COI-5, all of which share the same 2600 afy annual quantity, were supplied by the Public Works Department of the City of Issaquah (Table 3). These show that in 2001 COI-1 and COI-2 produced 918.9 afy and COI-5 produced a further 541.6 afy supplementary to COI-1/2 (the remaining production from COI-5 was supplemental to water rights for COI-4), giving a total use of 1460 afy under the 2600 afy allocation for the COI-1/2 water rights.

Quantities available for change for water under G1-22733C are 300 gpm Qi and 119 afy Qa. Annual quantity remains supplementary to the rights under certificates 6343-A and 7031-A, whose annual usage of 1460 afy for the year 2001 is in excess of the 764 afy allocated under groundwater rights for G1-22733C (119 afy) and G122734C (500gpm, 645 afy).

Given the above analysis, it is the finding of this investigation that approval of the requested change will not result in an enlargement of the right.

### Protests

There were no protests filed in response to the proposal to change the point of withdrawal from wells COI-3A/3 to well COI-6. The Muckleshoot Indian Tribe however has expressed concerns that approval would result in a greater total withdrawal from the Issaquah Valley Aquifer and that the connectivity between the aquifer and streams would cause impairment to instream flows necessary to support fish populations.

Ecology, as expressed in this report, recognizes the relationship between groundwater withdrawals, stream flows and fish habitat. Based on the information reviewed as part of this investigation, it is tentatively found that the City of Issaquah retains the right to the withdrawal of groundwater under certificates G1-22733C and G1-22734C as established under Chapter 90.44 RCW and is entitled under RCW 90.44.100 to propose a change to the point of withdrawal so long as (1) the proposed change will not result in an enlargement as conveyed by the original certificate, (2) the new point of withdrawal taps the same body of groundwater, (3) water is available at the new point of withdrawal, (4) the change does not impair existing water rights, and (5) the proposed change is not detrimental to the public interest.

The findings of this investigation are that the City of Issaquah and its consultants have provided sufficient evidence to show that the proposed new point of withdrawal would tap the same aquifer, is not likely to impair existing water rights, and will not constitute an enlargement under the certificate. However Ecology's investigation reveals that the change as proposed is likely to cause a greater impact to stream levels, particularly in the mainstem of Issaquah Creek close to the location of the Issaquah Salmon Hatchery, than withdrawals from the well original location, thus indicating that a potential detriment to the public interest would result if the proposed change were approved.

### Impairment of Other Rights

Aquifer tests and computer groundwater modeling conducted by Golder Associates after construction of COI-6 (Golder, 2000a and 2000b) indicate that pumping at the proposed new point of withdrawal will result in a 0 to 1 foot drawdown on groundwater levels in the shallow aquifer zone which is also utilized by the Darigold Dairy wells and City of Issaquah wells COI-1 and COI-2 (Figure 3).

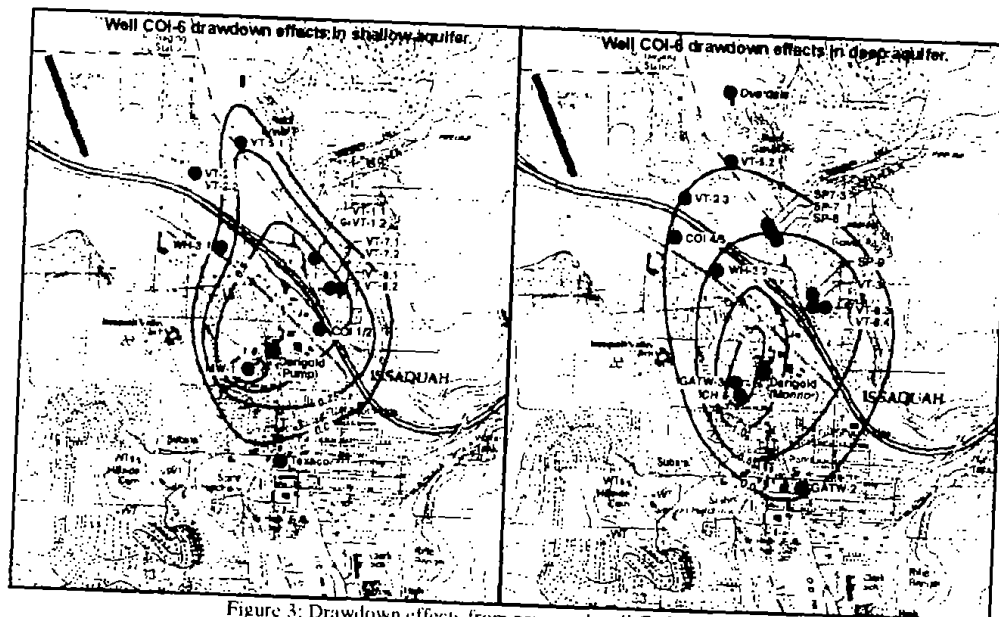


Figure 3: Drawdown effects from proposed well COI-6.

The amount of drawdown in wells tapping the deeper portion of the aquifer is greater than within wells utilizing shallow groundwater. The drawdown, from 0 to greater than 1.5 feet, is not however expected to cause interference which would unduly impact existing groundwater water rights within its zone of influence. The same may not be true with respect to surface water bodies in hydraulic continuity with groundwater within the zone of influence (cone of depression).

Surface bodies in hydraulic connection with the Issaquah Valley Aquifer within the zone of influence of the proposed new point of withdrawal will probably be impacted by pumping. The degree of impact was not measurable during testing of Well COI-6, however it is likely to be noticeable through long term continuous pumping as is authorized under the existing certificate, with its greatest impact felt within the drawdown area outlined for the shallow aquifer zone in figure 3. It is not

likely however that the total quantity of water produced from the proposed new well derived from surface water bodies would be greater than that which would result from pumping at the original point of withdrawal (Massmann, 2001).

The small amount of drawdown encountered for the deep aquifer zone in the testing of COI-6 is indicative of significant hydraulic continuity between the deeper portions of the Issaquah Valley Aquifer with shallower groundwater and surface water. Minimum instream flows set by regulation under chapter 173-508 WAC represent water rights which must be considered under an impairment evaluation for a change or amendment to a water right. However Issaquah Creek and its tributaries were closed to further appropriation under WAC 173-508-030 and 040 rather than having minimum instream flows set. An evaluation of impairment to the creeks as existing water rights is therefore not appropriate for the application under consideration. It is appropriate however for Ecology to investigate whether any impact the proposed new point of withdrawal might have on stream flows would be contrary to public interest (see section of this report on Public Interest).

#### Source of Water and Availability

The Issaquah Valley Aquifer system is hosted in alluvial and glacial sand and gravel deposited during and following the most recent ice age which lasted from approximately 35,000 to 10,000 years before present. It is located in the east-central portion of WRIA 8 (Cedar-Sammamish Water Resources Inventory Area), within an area designated herein as the Issaquah - Lake Sammamish sub-basin (Figure 4).

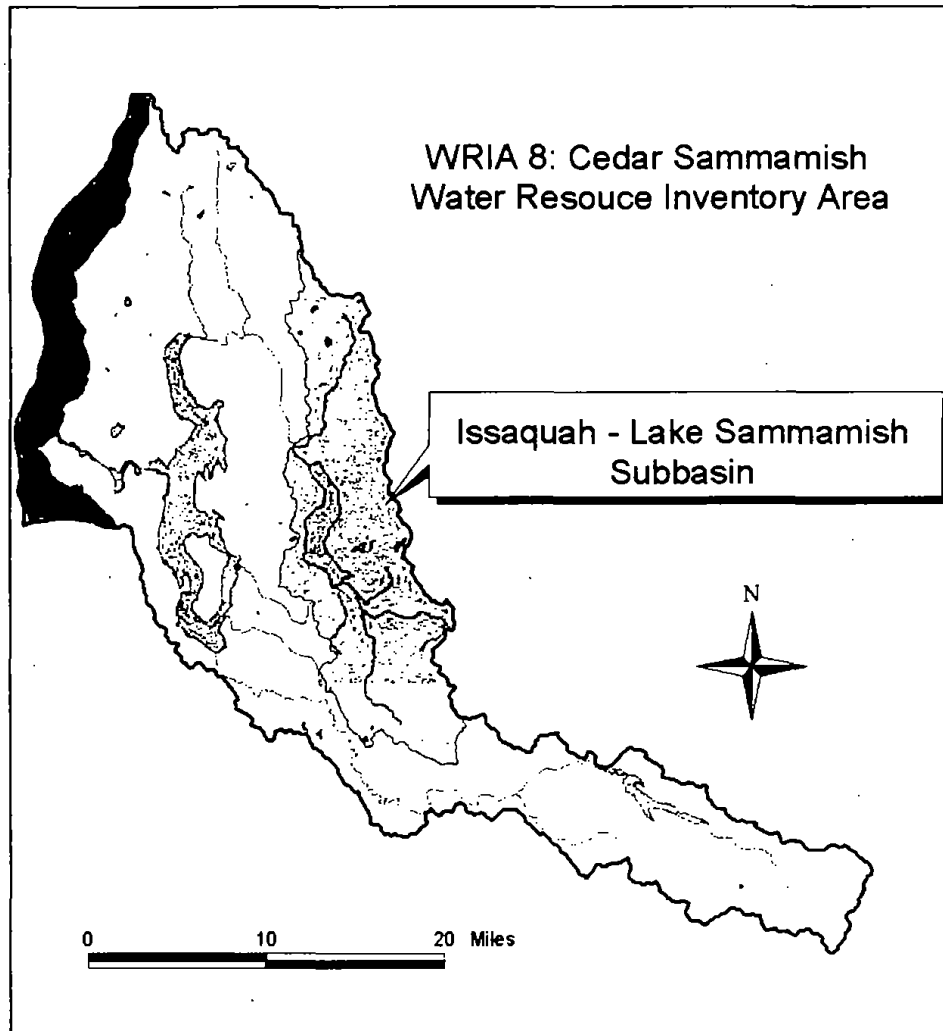


Figure 4: Map showing location of the Issaquah-Sammamish sub-basin of WRIA 8.

Issaquah Creek has three principal tributaries: the mainstem, East Fork, and North Fork (Figure 5). The mainstem drains the south and westernmost slopes of Tiger Mountain and the eastern slopes of Squak Mountain. The East Fork of Issaquah Creek drains the south flank of Grandview Ridge, the northern slopes of Tiger Mountain and the Tradition Lake Plateau. The North Fork of Issaquah Creek drains a portion of the Issaquah Highlands/Grand Ridge area and the western edge of the southernmost portion of the Sammamish Plateau.

Groundwater recharge for the Issaquah Valley Aquifer system is supplied by infiltration of rainfall from the northern slopes of Squak and Tiger Mountains, the lower portions of the Issaquah valley, the Tradition Lake Plateau, and a portion of the Issaquah Highlands/Grand Ridge area. Near the confluence of the mainstem of Issaquah Creek and East Fork, the location of the proposed new point of withdrawal at well COI-6, the bulk of groundwater recharge originates from the northwestern slopes of Tiger Mountain, the eastern slopes of Squak Mountain and the Tradition Lake Plateau (Figure 5).

Longer term storage and recharge of the aquifer is possible from sandstone bedrock which underlies both Squak and Tiger Mountains, but little is known about the quantity of recharge from this source or its ability to store groundwater.

### Water Availability

A determination of water availability of a water right is made at the time the original water right application is investigated. The original Report of Examination on the water right, dated January 31, 1977, affirmatively established that water was available and a water right consisting of an instantaneous quantity of 300 gallons per minute with a supplemental annual quantity of 119 afy was issued.

Previously allocated groundwater rights totaling 2600 afy were already held by the City of Issaquah in 1977 and this primary annual amount was deemed sufficient to supply the city's then and projected needs (10,000 population by 1997). With this in mind the City of Issaquah was allocated a supplemental annual quantity under G1-22733C and G1-22734C. The annual quantity for Wells 3A and 3 are both supplemental to the primary quantities allocated under right for Wells 1 and 2 (GWC 6343-A and GWC 7031-A). All four wells utilize the same source, the Issaquah Valley Aquifer.

Subsequent to the issuance of permits for G1-22733 and G1-22734, the City of Issaquah applied for and was allocated additional groundwater rights from the Issaquah Valley Aquifer (G1-24809C and G1-24633C) for COI 4 and 5. In addition the Sammamish Plateau Water and Sewer District (SPWSD) has been issued groundwater rights for three wells located in the Issaquah Valley that utilize the same aquifer.

The groundwater recharge area of the Issaquah Valley Aquifer encompasses the surface area of the Issaquah Creek and Tibbets Creek watersheds (see Figure 5). While surface water from the entire watershed contributes to groundwater in the aquifer through losing stream segments, the groundwater regime in much of the southernmost Issaquah Creek watershed and most of the Tibbets Creek watershed does not contribute directly to groundwater recharge at the COI-6 location.

Most groundwater flow in the portion of the Issaquah Creek watershed situated south of Tiger and Squak mountains flows to the west into the aquifers of the Cedar River (WRIA 8) and Green River (WRIA 9) watersheds. Groundwater from the Tibbets Creek watershed is isolated from the location of COI-6 by a spur of bedrock extending north from Squak Mountain, and much of the groundwater north of the East Fork of Issaquah Creek (Issaquah Highlands/Grand Ridge area) flows northward into the Sammamish Plateau and the Snoqualmie Valley aquifer systems.

The bulk of recharge for the aquifer system at the location of well COI-6 originates as rainfall within the immediate valley area and from the Tradition-Lake Plateau area (the East Fork watershed draining the northern slopes of Tiger Mountain and southern slope of Grand Ridge). This area encompasses approximately 7,000 acres of the over 45,000 acres within the Issaquah and Tibbets Creeks surface watershed (Figure 5).



Figure 5: Map showing the Issaquah and Tibbets Creek watersheds and the recharge area for the proposed new well.

Massmann (2001) estimates that Issaquah Valley Aquifer system receives approximately 14,000 to 18,000 afy (recalculated from 20 to 25 cfs) in recharge annually. Groundwater rights have been allocated for approximately 10,000 afy (Table 2) not including rights granted outside of the area within approximately one mile of well COI-6. Massmann (2001) also cites an estimate by Ecology that actual use from wells in the area is less than half of the current allocation or approximately 3,600 afy (5 cfs).

In the present application the proposed new point of withdrawal is further down-gradient within the same aquifer as the original point of withdrawal and recharge occurs from a larger catchment area, and thus would thus be more capable of supplying the same quantity of water.

Well test data supplied by the City (Golder, 2000a) suggest only minimal drawdown to the water table in the area of the new well (0 to 1 feet; see Figure 3). Tests were conducted during late summer when stream flows are most critical to fish habitat. Pump tests and stream gaging, done in conjunction with aquifer testing, indicate that surface water bodies are perched in late summer in this area and therefore not in close hydraulic continuity with the water table at the immediate area of the well during this part of the season. During the remainder of the year the water table associated with the Shallow Aquifer Zone is in closer hydraulic continuity with streams and creek levels would be affected.

Based on the results of computer modeling of the proposed new point of withdrawal (Golder, 2000b), long term pumping would result in 85% of well withdrawals being derived from shallow groundwater sources in close hydraulic continuity with Issaquah Creek (~500 gpm of 600 gpm modeled pumping after 300 days, when steady state is achieved). The model shows that if pumping is discontinued after 115 days less than 50% of pumping volume would be derived from shallow sources (~270 gpm of 600 gpm).

While the total impact, in terms of both drawdown and stream capture, would be spread along the creek and over a wide area of the shallow aquifer zone, the strongest effects of pumping would occur in the immediate area of the proposed well within the cone of depression of the shallow aquifer zone as shown in Figure 3.

The model effects are reported as being conservative (Golder, 2000b), and therefore are likely overstated. Since the model was based on a pumping rate of 600 gpm, the estimates are not accurate for the proposed changes for G1-22733C and G1-22734C totaling 800 gpm, but still give a reasonable estimate of the magnitude of stream impact.

**Source of Water**

Both the original and the new point of withdrawal utilize groundwater from within the Issaquah Valley Aquifer system (see Figure 6). Therefore the proposed change conforms to requirements of RCW 90.44.100 that replacement wells must tap the same body of groundwater.

At both locations wells tap the deep, sand and gravel hosted, semi-confined, aquifer zone that is separated from the shallow water table aquifer zone (also hosted in sand and gravel) by a lower permeability silt, fine sand and clay layer of lacustrine origin. Lenses of silt and clay and in places glacial till, locally form low permeability layers that do not significantly restrict vertical mobility of water within the upper portion of the aquifer.

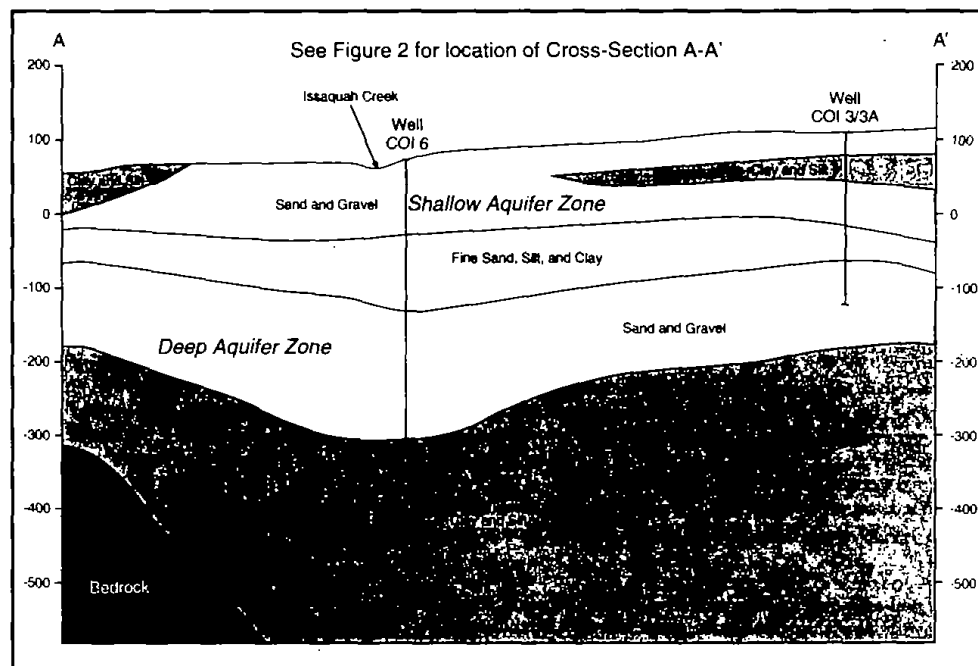


Figure 6: Cross-section between wells COI 3A/3 and the proposed new well COI 6 (after Golder and Associates, 2000).

**Potential for Different Impacts on the Water Source**

The City of Issaquah is currently utilizing (based on data supplied by the City of 2001 well production) 1600 afy out of their total allocation under existing certificates of 2800 afy. Approval of the applications for change for groundwater certificates G1-22733C and G1-22734C will result in the City being capable of producing 764 afy toward that amount. Note however that, under changes the legislature passed in 1997 to RCW 90.44.100, the city has the authority, independent of these applications, to drill a replacement well or wells at the original location of wells COI-3A/3, giving the City of Issaquah the freedom to use the entire 764 afy from rights under certificates G1-22733C and G1-22734C without filing applications for change.

The City's consultants (Golder, 2002) suggest that withdrawals from the proposed new point of withdrawal will result in less overall impact to the environment due to: (1) the greater thickness of the leaky aquitard at the new location (thus resulting in less impact to shallow groundwater and surface water bodies in the immediate area of the well), (2) a greater, more diversified recharge area for waters withdrawn at the proposed new well, and (3) because groundwater from the new well would not likely interact with surface water flows above Lake Sammamish.

While these claims appear on their face to be reasonable based on what is known about the aquifer and on the dynamics of pumping, it relies on an assumption that there will not be a direct impact on stream flows as a result of pumping. Pumping tests (Golder 2000a) however suggest that there will be an impact on the shallow aquifer zone within zone of influence (cone of depression) of the new well and hence on stream flows within the zone that would not occur with pumping at the original point of withdrawal. During pumping at the proposed new well, stream flow within the zone of influence that would have otherwise stayed within the stream and/or shallow aquifer zone, would instead be drawn down into the deeper aquifer zone and contribute to pumped volumes.

**Public Interest**

The East Fork, North Fork and mainstem of Issaquah Creek are closed by rule under WAC 173-508-030 and 173-508-040 to preserve stream flows required to support salmon habitat. The streams have been administratively closed since 1950 when the



Washington State Department of Fisheries requested that all remaining stream flows were required to support salmon spawning and rearing habitat. In 1971 the USGS performed field surveys of Issaquah Creek that indicated that flows between May and November were inadequate for support of fish populations, confirming that Issaquah Creek and all its tributaries should be closed.

Approval of the requested change in point of withdrawal will not alter the quantity allocated under certificate G1-22733C, thus there would be no net gain in the quantities available under the right from the source aquifer. There is information however that indicates the proposed change in the point of withdrawal would result in greater local contribution from closed streams to pumped quantities.

It is generally agreed among hydrogeologists that groundwater in alluvial aquifers is closely associated with surface water bodies occupying the same valley. The understanding of hydraulic continuity supports the concept that groundwater withdrawals from an alluvial aquifer divert all or a portion of the pumped volume from streams and other surface water bodies occupying surface areas of the alluvial valley.

The current application seeks to replace a point of withdrawal located on the periphery of the alluvial aquifer at a distance of approximately 2000 feet from each of two closed streams (East Fork and mainstem of Issaquah Creek) with a new point of withdrawal located approximately 200 feet from the streams. The effect of withdrawals from each location must be analyzed with respect to their effects on both streams in order to determine whether approval of the change will result in a net increase to the amount of water that the new well will derive from creek flow.

The degree to which pumping from a well can effect stream flows is largely dependent on the distance of the well from the stream, the depth from which water is withdrawn and on the ability of the aquifer and intervening aquitard media to allow the transmission of water (hydraulic conductivity).

Unconfined aquifers, i.e. aquifers not separated from the surface by a low permeability aquitard, are generally found to be in closer hydraulic continuity with streams. Withdrawals that derive water from unconfined aquifers, particularly when they are in close proximity to streams, have a more pronounced effect on stream flows than withdrawals from confined aquifers.

In the Issaquah Valley Aquifer an aquitard of varying thickness and hydraulic conductivity occurs such that the degree of hydraulic connection between the point of withdrawal and surface streams is largely dependent on the position within the valley of the well. An aquitard overlying a confined aquifer that allows significant hydraulic connection with a shallower aquifer is considered to be "leaky". Aquifer tests at Well COI-6, where shallow aquifer water levels were lowered by up to 1 foot, are consistent with the existence of a leaky aquitard separating the aquifer at well intake level from the shallow aquifer near the surface.

Robert Anderson, in his technical analysis of the original and proposed new points of withdrawal (Golder, 2002), states that moving the point of withdrawal to Well COI-6 will result in less impact to the environment based on his analysis of well completion depth, recharge area, distance of each point of withdrawal from Issaquah Creek, and the thickness of the aquitard at the two well locations. Anderson's analysis however assumes that the city would only use Well COI-6 for summer peaking requirements. The applicant has not however requested a reduction in the period of use for this water right and therefore Ecology must evaluate effects on stream flows consistent with the well operating continuously as currently authorized under the certificate. In addition Anderson does not take into account the direct effect that pumping will have on surface water bodies with the well's zone of influence.

Anderson (Golder, 2002) estimates that at the original point of withdrawal (Wells COI-3A/3), the contribution to well production from the shallow, unconfined aquifer would be greater than 90% after only 10 days of pumping. He also states that groundwater computer model analysis (Golder, 2000b) indicates that after 100 days of pumping at COI-6, the contribution from leakage would be less than 50% of pumping volume. The model also indicates that if the well is pumped continuously the contribution through leakage would reach 85% of pumping volume. At either location, the contribution from leakage would include water from the shallow aquifer and a component from stream flows, whose magnitude would largely be dependent on the distance to the surface water body and the direction and velocity of flow in the aquifer.

The difference in leakage between the two locations can be explained by the relative thicknesses of low permeability material present at both locations. At Well COI-6 a sandy silt aquitard overlying the completion zone is some 140 feet thick, while at COI-3A/3 the low permeability material overlying the completion zone is only a few feet thick. It is not certain whether the silt layer present at both locations is continuous. The leakage suggests that it is not. Well 3A/3 also has a 20 foot thick glacial till layer near the surface. This till layer however is discontinuous in the valley and does not form an effective aquitard.

Well COI-3A/3 is nearly 10 times the distance from either the East Fork or mainstem of Issaquah Creek than is Well COI-6. The effect of withdrawals from a well in hydraulic connection to a stream drops off rapidly with distance of the well from the stream. It is likely therefore that the contribution of stream flows to pumping volume would be greater at the proposed new point of withdrawal than from Wells COI-3A/3 due to the difference in distance from the streams. The presence of the thicker aquitard at COI-6 would likely attenuate the effect in the short term, but would, on a long term basis, result in a greater impact on the shallow aquifer and ultimately on stream flows in the immediate area of the well.

Anderson points out that the recharge area of the original point of withdrawal is limited largely to Tradition Lake Plateau and that the recharge area for Well COI-6 includes a much larger area, with contributions from the upper Issaquah Creek valley, the East Fork/Issaquah Highlands area in addition to the Tradition Lake Plateau. While the greater diversity in recharge sources suggests that withdrawals at Well COI-6 would cause less overall stress on the aquifer, they do not lessen the potential to cause a greater impact on stream flows in the zone of influence of the proposed new point of withdrawal, where pumping stress on the shallow aquifer and streams would be greatest.

A change in point of withdrawal, as proposed, would result in a negative impact to the flow of water in a salmon spawning and rearing stream. The negative impact to a stream closed by rule, with no water available is detrimental to the interest of the people of Washington.

## DISCUSSION

The proposed changes in point of withdrawal for G1-22733C and G1-22734C do not conform to all the requirements for approval of an application for change or amendment to a groundwater right under applicable statutes RCW 90.44.100 and RCW 90.03.290.

This investigation finds that approval of the proposed change threatens to prove detrimental to the public interest, due to the impact that pumping at the proposed point of withdrawal would have on stream flows, and hence on salmon habitat in the East Fork of Issaquah Creek and the mainstem of Issaquah Creek, both of which are critical salmon habitat streams and closed to appropriation under Chapter 173-508 WAC. Ecology's concerns are supported by the Department of Fish and Wildlife whose objection to this application is based on the degree of hydraulic continuity of the proposed new point of withdrawal.

Under Ecology authority in the consideration of changes or amendments to groundwater rights, if approval threatens to prove detrimental to the public interest, Ecology has a duty to reject the application. It is also noted in this investigation that a denial of this application does not prevent the applicant from exercising the right by drilling a replacement well at the original published well location.

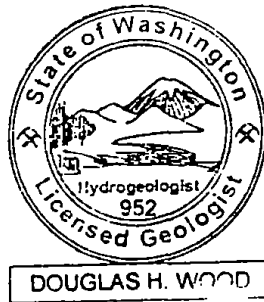
**RECOMMENDATIONS**

I recommend the proposed changes to groundwater certificate G1-22733C be denied and the application for change be rejected pursuant to the requirements of RCW 90.44.100 and RCW 90.03.290.

**CONCLUSIONS**

In accordance with chapter 90.44 RCW, and based on the findings of this report, I conclude that the proposed new point of withdrawal for groundwater certificate G1-22733C cannot be authorized.

REPORT BY: Douglas H. Wood DATE: 6/5/2003  
Douglas H. Wood, MS, LHG  
Licensed Hydrogeologist (WA #952)



**Gun Club Well 3**

**Certificate G1-22734C**



\$10.00 examination fee should accompany each application.

STATE OF WASHINGTON  
DEPARTMENT OF WATER RESOURCES  
Division of Water Management

No. other DOE  
Permits **163 TSH**

PRIORITY
Date <b>9/1/76</b>
Time <b>1600 9/3/76</b>
Accepted <b>TSH</b>

APPLICATION FOR A PERMIT

To Appropriate Public Ground Waters  
OF THE STATE OF WASHINGTON

Ralph Klei  
392-7227

Application No. **G 22734**  
G. W. 1

WRIA = 8

I, CITY OF ISSAQUAH, WASHINGTON  
(Name of applicant)

of 130 E. Sunset Way (P.O. Box M) Issaquah, WA 98027  
(Complete post office address)

do hereby make application for a permit to appropriate the following described public ground waters of the State of Washington, subject to existing rights. This application is made under the provisions of Chap. 263 of the Session Laws of 1945, and amendments thereto of the State of Washington and subject to the rules and regulations of the Department of Water Resources.

1. The proposed appropriation will be from well  
(Well, tunnel, infiltration trench)

located within the city limits of Issaquah, Washington  
(Give approximate distance and direction from nearest city or town)

Area \_\_\_\_\_ Sub-area \_\_\_\_\_  
(Leave blank) (Leave blank)

Zone \_\_\_\_\_  
(Leave blank)

Applicant's name or number of well or other works, if any #4

2. The quantity of water which applicant intends to withdraw for beneficial use is 600  
gallons per minute; 645 acre feet per year.

3. The use or uses to which water is to be applied municipal  
(Domestic supply, irrigation, municipal, manufacturing, industrial use, etc.)

4. The time during which water will be required each year all year

5. Location of well or other works for withdrawal of water: In county of King  
1280' S 2 1/2 W from NW cor of Sec 34  
From N.W. corner of the N.W. Quarter of Section 34, T24N,  
(a) Range 6E, W.M., S 52° 31' 31" E for 2010.5 ft.  
(Give distance and bearing from nearest corner of section or legal subdivision)

being within the SE 1/4 of NW 1/4 of Sec. 34, Twp. 24 N., Rge. 6E  
(Give smallest legal subdivision) (E. or W.)

or (b) If within limits of recorded platted property, town or city: Lot \_\_\_\_\_, Block \_\_\_\_\_

of \_\_\_\_\_  
(Give name of plat or addition) (If within town or city, give name)

(c) Show this location on accompanying section plat. Other adequate maps or drawings will be acceptable.

6. DESCRIPTION OF WORKS:

(a) Well will be drilled and have a diameter of 8 inches and an estimated depth of 190 feet.  
(Dug or drilled)

(b) Tunnels or trenches to be described: (Attach additional sheets if needed for full description.)

(c) Distribution system to be described:

Water from said well shall be pumped through a 12" transmission main, which in turn enters the existing city water distribution system.

(d) If pumps are to be used, give size and type:

Pumping system has not been designed at this time. Design is awaiting well testing as to its capacity.

(e) Give capacity and type of motor or engine to be used:

(f) If the location of the well, tunnel, or other works is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development:

(g) Ownership of each existing well or other works from which ground water is withdrawn within a radius of one-quarter mile and the distance and direction from well or other works being reported here:

City of Issaquah	South	200 feet
(Name)	(Direction)	(Distance)
(Name)	(Direction)	(Distance)
(Name)	(Direction)	(Distance)

SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:

7. For Municipal Supply: To supply the city, town, or community of Issaquah, in the county of King, having a present population of 4,850, and an estimated population of 10,000, in 19 90.

8. For Irrigation: Number of acres to be irrigated \_\_\_\_\_ acres.

9. Legal Description of Property on which water is to be used for all purposes other than municipal supply:

(Copy legal description from deed)  
(If more space is required, attach separate sheet)

Well #4 is located in a portion of the southeast quarter of the northwest quarter of Section 34, Township 24 North, Range 6 East, N.M., described as follows:

Beginning at the northwest corner of the northwest quarter of Section 34, thence south 2°00'11" west along the west line thereof 1647.3 feet; thence south 87°59'49" east, at right angles 2399.4 feet to the center of the casing of said well. Bearings refer to the Washington State Coordinate System, North Zone, as established by the King County Aerial Survey.

*Area served by City of Issaquah*

(On accompanying plat show location of the existing wells or works)

10. What interest do you have in the above described property? Owner

(Owner, lessee, contract buyer, etc.)

11. Do you have any other water rights appurtenant to the above described property? Yes

If so, from what source? Well #3 (groundwater) Concurrent application (G-22733) for municipal - 300 gpm. 7/14/76 JH

12. Construction work will begin on or before September 1976

13. Construction work will be completed on or before November 1976

14. Water will be put to complete beneficial use on or before November 1976

City of Issaquah  
By: *JH Herrington*  
(signature of applicant)

15. Name and address of owner of land on which well or works are located:

City of Issaquah  
(Name)

130 E. Sunset (P.O. Box 14)  
Issaquah, WA 98027  
(Address)

By: *JH Herrington*  
(Signature of legal landowner)  
H. G. HERRINGTON, Mayor

Signed in the presence of us as witnesses:

*Linda Ruehle*  
Linda Ruehle, (Name) City Clerk  
*Jerald L. Osterman*  
Jerald L. Osterman, (Name) Admin. Assistant

City of Issaquah; P.O. Box 14; Issaquah, WA 98027  
(Address of witness)  
City of Issaquah; P.O. Box 14; Issaquah, WA 98027  
(Address of witness)

STATE OF WASHINGTON, }  
COUNTY OF THURSTON. } 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 or completion as follows:

In order to retain its priority, this application must be returned to the Department of Water Resources, with corrections, on or before \_\_\_\_\_, 19\_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_

Division of Water Management  
Department of Water Resources

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER       GROUND WATER

APPLICATION NO. G1-22734	PRIORITY DATE OF APPLICATION September 1, 1976
-----------------------------	---

NAME  
CITY OF ISSAQUAH

ADDRESS (STREET) (CITY) (STATE) (ZIP CODE)  
130 East Sunset Way (P.O. Box M) Issaquah Washington 98027

Examination Date: January 20, 1977

PUBLIC WATERS TO BE APPROPRIATED

SOURCE  
Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 600.0	MAXIMUM ACRE-FEET PER YEAR 645.0
-------------------------------	-------------------------------------	-------------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE  
Municipal supply - continuously

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL  
1280 feet south and 320 feet west from north  $\frac{1}{4}$  corner of Sec. 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 34	TOWNSHIP-N. 24	RANGE, (E. OR W.) W.M. 6 E.	W.R.I.A. 8	COUNTY King
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RECORDED PLATTED PROPERTY

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

Area served by City of Issaquah



**DESCRIPTION OF PROPOSED WORKS**

Drilled 8" diameter, 190' deep.  
Detailed plans will be supplied prior to final Certificate.

**DEVELOPMENT SCHEDULE**

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	3 yrs from permit issuance	4 yrs from permit issuance

**PROVISIONS AND RECOMMENDATIONS**

Evaluation:

This Report of Examination began with a site visit on January 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally a review of the Ground Water Study and pump test results for the wells in question.

The City of Issaquah currently has two (2) certificates of water rights in good standing from the Risdon Wells Numbers 1 and 2 - Certificates Numbers 6343 and 7031 respectively. Your Comprehensive Water Plan also shows a certificate of water right No. 1087 from your water shed. This was relinquished by the City on October 2, 1970. Also, a pending 1970 Surface Water Application from seven springs on the East Water Shed is scheduled to be cancelled once these present applications are approved.

Recognizing that your system requirements are based on peak demands using instantaneous withdrawals and storage as key factors, we will normally approve a realistic request for additional instantaneous withdrawals, assuming no overriding factors occur. Our management of the resource, however, requires that we restrict your total annual permitted use from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 gallons per day/person or 0.224 acre-feet per year/person x 10,000 = 2,240 acre-feet per year (Maximum annual total from all your water rights). Quantities granted on your current two (2) ground water certificate exceeds this by 360 acre-feet per year; primarily due to past over estimation of population growth. This should create no major problem, however, as any annual quantities granted on these current requests would be supplemental to that presently approved.

A graphic look at your past, present and proposed water rights is as follows:

**WATER RIGHT CERTIFICATES**

Source	W.R.C. No.	Inst. Q	Annual Q.	
			Primary	Supplemental
Water Shed	S.W. 1087	Relinquished by the City October 2, 1970		
Risdon Wells				
No. 1	G.W. 6343	630 GPM	1000 AF/YR	
No. 2	G.W. 7031	1200 GPM	1600 AF/YR	

**PENDING APPLICATIONS**

Source	Application No.	Inst. Q.	Annual Q.	
			Primary	Supplemental
East Water Shed			To be canceled pending approval of Ground Water Application	
7 springs	21981	2.5 CFS		
Well #3	G1-22733	300 GPM		119 AF/YR
Well #4	G1-22734	600 GPM		645 AF/YR

Conclusions

The pump tests substantiate availability of water in quantities requested. No evidence was found to show that this withdrawal, if approved, would have any effect on existing rights nor prove detrimental to the public interest. Therefore, having due regard to the highest feasible development of the use to public waters, I recommend this application should go to permit subject to existing rights and the following conditions.

Special Conditions:

To be included on Permit and final Water Right Certificate -

✓ "Instantaneous withdrawal shall not exceed 600 gallons per minute and the annual withdrawal shall not exceed 645 acre-feet per year" (Quantity approved based on quantity requested).

✓ When approved "This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights." (Annual quantity calculated from estimated 1990 population of 10,000. Future increase to this annual quantity must be justified by population increase, or other unusual circumstances, and approved by this office.)

To be included on permit -

"All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

"The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port."

"A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040." (Installation, operation and maintenance requirements attached hereto.)

"Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute."

Other Comments and Recommendations:


Applicant is advised that notice of proof of appropriation of water (under which final certificate of water right issues) 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.

Use of the waters to be appropriated under this application will be for a public water supply. State Board of Health rules require every owner of a public water supply to obtain written approval from the Assistant Secretary, Division of Health prior to any new construction or alterations of a public water supply. The applicant is advised to contact the Washington State Division of Health, Public Health Building No. 4, Thurston Airdustrial Center, Olympia, with regard to the need for compliance.

Upon approval of this application G1-22734 and/or accompanying application G1-22733 we shall initiate final action for cancellation of pending Surface Water Application No. 21981.

Signed at Redmond, Washington,

this 31 day of January, 1977.

  
ROY C. BISHOP  
Resource Management  
Department of Ecology

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER       GROUND WATER

APPLICATION NO. G1-22734	PRIORITY DATE OF APPLICATION 9-1-76
-----------------------------	--

NAME CITY OF ISSAQUAH <i>Issaquah</i>	(CITY)	(STATE)	(ZIP CODE)
ADDRESS (STREET) 130 East Sunset Way	P.O. Box M	Issaquah, Washington	98027

*1/20/77 Ron*

PUBLIC WATERS TO BE APPROPRIATED

SOURCE  
well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 600	MAXIMUM ACRE-FEET PER YEAR 645
-------------------------------	-----------------------------------	-----------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE  
municipal supply - continuously

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL  
1280 feet south and 320 feet west from north 1/4 corner of SEC 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) <u>NE 1/4 NW 1/4</u>	SECTION 34	TOWNSHIP N. 24	RANGE (E. OR W.) W.M. 6 E	W.R.I.A. 8	COUNTY King
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SE RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON

*Deputy  
Hanna*

*26709.9  
26751.7  
26709.3  
4*

## DESCRIPTION OF PROPOSED WORKS

Drilled 8" dia 190' deep

Detailed plans will be supplied prior to final Certificate

## DEVELOPMENT SCHEDULE

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	3 Yrs from Date P.I.	4 Yr from P.I.

## PROVISIONS AND RECOMMENDATIONS

Evaluation:

This Report of Examination began with a site visit on Jan. 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally a review of the Ground Water Study and pump test results for the wells in question.

The City of Issaquah currently has two (2) certificates of water rights in good standing from the Pison Wells Nos 142 - Certificate Nos 6343 + 7031 respectively. Your Comprehensive Water Plan also shows a certificate of water right No. 1087 from your water shed. This was relinquished by the City, on Oct 2, 1970. Also, a pending 1970 Surface Water application from seven springs on the East Water Shed is scheduled to be canceled once these present applications are approved.

Recognizing that your system requirements are based on peak demands using <sup>instantaneous</sup> withdrawals and storage as key factors, we will normally approve a realistic request for additional <sup>instantaneous</sup> withdrawals, assuming no overriding factors occur. Our Management of the resource, however, requires that we restrict your total annual <sup>total</sup> use from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 GPD/person or 0.224 AF/yr/person  $\times 10,000 =$

## Evaluation:

This Report of Examination began with a site visit on Jan. 20, 1977, followed by a review of your current water rights, a review of your Comprehensive Water Plan and finally, a review of the Ground Water Study and pump test results for the wells in question.

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Recognizing that your system requirements are based on peak demands using <sup>intermittent</sup> ~~instantaneous~~ withdrawals and storage as key factors, we will normally approve a realistic request for additional <sup>intermittent</sup> ~~instantaneous~~ withdrawals, assuming no overriding factors occur. Our Management of the resource, however, requires that we restrict your total annual <sup>peak</sup> ~~use~~ from all sources to a quantity compatible with projected population growth. For example, you show a projected population of 10,000 by the year 1990. Using our standard maximum allowable daily average of 200 GPD/person or 0.224 AF/YR/person  $\times 10,000 = 2240$  AF/YR. (Maximum annual total from all your water rights) ~~that quantity granted on~~ Your current two (2) ground water certificates exceeds this by 360 AF/YR, primarily due to past over estimation of population growth. This should create no major problem, however, as any

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**PERMIT**  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER       GROUND WATER

PERMIT NUMBER G1-22734P	APPLICATION NUMBER G1-22734	PRIORITY DATE September 1, 1976
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NAME  
CITY OF ISSAQUAH

ADDRESS (STREET)      (CITY)      (STATE)      (ZIP CODE)  
130 East Sunset Way (P.O. Box M)      Issaquah      Washington      98027

*The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE  
Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 600.0    500.0	MAXIMUM ACRE-FEET PER YEAR 645.0
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QUANTITY, TYPE OF USE, PERIOD OF USE  
Municipal supply - continuously

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION/WITHDRAWAL  
1280 feet south and 320 feet west from north  $\frac{1}{4}$  corner of Sec. 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 34	TOWNSHIP N. 24	RANGE, (E. OR W.) W.M. 6 E.	H.R.L.A. 8	COUNTY King
--	---------------	-------------------	--------------------------------	---------------	----------------

**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

**LEGAL DESCRIPTION OF PROPERTY WATER TO BE USED ON**

Area served by City of Issaquah

**DESCRIPTION OF PROPOSED WORKS**

**DEVELOPMENT SCHEDULE**

BEGINNING DATE	COMPLETION DATE	DATE COMPLETE APPLICATION OF WATER TO BE MADE
Started - well drilled	March 15, 1980	March 15, 1981

**PROVISIONS**

Instantaneous withdrawal shall not exceed 600 gallons per minute and the annual withdrawal shall not exceed 645 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All new water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

The installation of an access port as described in attached Ground Water Bulletin No. 1 shall be required prior to issuance of final certificate of water right. The applicant may, for his own convenience, wish to install an airline and gage in addition to the access port.

A suitable measuring device shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040.

Prior to issuance of a Certificate of Water Right, the applicant will be required to furnish information to this office as part of his Proof of Appropriation as to the size and type of equipment installed and the rate at which water is withdrawn in gallons per minute.

*This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.*

Given under my hand and the seal of this office at Olympia, Washington, this .....15th..... day  
of ..... March ..... , 19 77 .....

**JOHN A. BIGGS, Director**  
Department of Ecology

*Robert K. McCormick*

by .....  
**ROBERT K. MCCORMICK, Regional Manager**

ENGINEERING DATA

OK.....  
*[Signature]*

**CERTIFICATE OF WATER RIGHT**

- 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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE September 1, 1976	APPLICATION NUMBER G1-22734	PERMIT NUMBER G1-22734P	CERTIFICATE NUMBER G1-22734C
------------------------------------	--------------------------------	----------------------------	---------------------------------

NAME  
**CITY OF ISSAQUAH**

ADDRESS (STREET) (CITY) (STATE) (ZIP CODE)  
130 East Sunset Way (P.O. Box M) Issaquah Washington 98027

*This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE  
Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 500.0	MAXIMUM ACRE-FEET PER YEAR 645.0
-------------------------------	-------------------------------------	-------------------------------------

QUANTITY, TYPE OF USE, PERIOD OF USE  
Municipal supply - continuously

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL  
1280 feet south and 320 feet west from north 1/4 corner of Sec. 34.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE 1/4 NW 1/4	SECTION 34	TOWNSHIP N. 24	RANGE, (E. OR W.) W.M. 6 E.	W.R.I.A. 8	COUNTY King
--	---------------	-------------------	--------------------------------	---------------	----------------

**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

Area served by City of Issaquah.



Instantaneous withdrawal shall not exceed 600 gallons per minute and the annual withdrawal shall not exceed 645 acre-feet per year.

This is a supplemental right to primary Ground Water Certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed the 2600 acre-feet per year previously approved on primary rights.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond Washington, this 31st day of August, 19 81

Department of Ecology

ENGINEERING DATA

OK *JK*

by *Robert K. McCormick*  
ROBERT K. MCCORMICK, Regional Manager

FOR COUNTY USE ONLY

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

COMPUTER INPUT  
 APPLICATION  
 PERMIT  
 CERTIFICATE  
 OTHER

PROGRESS SHEET

SURFACE WATER  GROUND WATER

NAME <b>CITY OF ISSAQUAH</b>			TELEPHONE NO.		
ADDRESS (CITY)		(STATE)		(ZIP CODE)	
<b>130 E. Sunset Way (P.O. Box M) Issaquah</b>		<b>Washington</b>		<b>98027</b>	
ASSIGNED TO			TELEPHONE NO.		DATE ASSIGNED
ADDRESS (CITY)			(STATE)		(ZIP CODE)
APPLICATION NO. <b>G-22734</b>		PERMIT NO. <b>G122734P</b>		CERTIFICATION NO. <b>A-22734C</b>	
DATE AMENDED		DATE CANCELLED		W.R.T.A.	
<b>APPLICATION</b>					
DATE APPLICATION RECEIVED <b>9-1-76</b>		INITIAL \$10.00 FEE RECEIVED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		DATE FEE RECEIVED <b>9-7-76</b>	
STATEMENT OF ADDITIONAL EXAMINATION FEE \$		DATE SENT		DATE RECEIVED	
DATE RETURNED FOR COMPLETION OR CORRECTION			DATE RECEIVED		
<b>TEMPORARY PERMIT</b>					
APPROVED BY			DATE ISSUED		
<b>PUBLICATION</b>					
APPROVED BY <b>JK</b>		DATE APPROVED <b>9/15/76</b>		DATE NOTICE SENT	
PROTESTED BY AND DATE					
Returned as not final					
DATE AFFIDAVIT RECEIVED <b>11-29-76 / 12-9-76</b>		CHECKED BY <b>JK</b>		TIME EXPIRED <b>10-29-76</b>	
DATE AMENDED NOTICE SENT		DATE AFFIDAVIT RECEIVED		TIME EXPIRED	
<b>DEPARTMENT OF GAME AND FISHERIES REPORT</b>					
APPROVED		PROVISO		PROTEST	
<b>EXAMINATION</b>					
DATE EXAMINATION MADE <b>1/20/77</b>		MADE BY <b>Ron B</b>		DATE REPORT OF EXAM. WRITTEN <b>1/28/77</b>	
DATE PERMIT FEE REQUESTED <b>2/3/77</b>		AMOUNT DUE <b>2000</b>		DATE RECEIVED <b>2-10-77 / 2-14-77</b>	
DATE RECEIVED		DATE RECEIVED		DATE RECEIVED	
<b>PERMIT</b>					
PERMIT APPROVED BY <b>JK</b>		DATE APPROVED <b>3/11/77</b>		PERMIT NO. <b>G122734P</b>	
DATE APPROVED		PERMIT NO.		DATE ISSUED <b>3-15-77</b>	
<b>BEGINNING OF CONSTRUCTION</b>					
DATE NOTICE SENT		DATE FILED		EXTENSION FEE	
EXTENDED TO			EXTENDED TO		
<b>WELL DRILLER'S AND/OR CONSTRUCTION REPORT</b>					
DATE SENT <b>3-16-77</b>		DATE FILED <b>In file</b>			
<b>COMPLETION OF CONSTRUCTION</b>					
DATE NOTICE SENT <b>3-16-77</b>		DATE FILED <b>3/31/80</b>		EXTENSION FEE	
EXTENDED TO			EXTENDED TO		
<b>PROOF OF APPROPRIATION</b>					
DATE SENT		DATE FILED <b>6-12-81</b>		EXTENSION FEE	
DATE SENT		DATE FILED		EXTENSION FEE	
DATE CERTIFICATE FEE REQUESTED		AMOUNT DUE		DATE RECEIVED <b>6-12-81</b>	
DATE CERTIFICATE FEE REQUESTED		AMOUNT DUE		DATE APPROVED FOR CERTIFICATE <b>7-14-81</b>	
DATE CERTIFICATE FEE REQUESTED		AMOUNT DUE		APPROVED BY <b>JK</b>	
<b>CERTIFICATION</b>					
PROOF EXAM. REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO		CERTIFICATE NUMBER <b>A-22734C</b>		DATE ISSUED <b>8-30-81</b>	
REMARKS					

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Accepted By: <i>[Signature]</i>
Date: <i>5-21-97</i>
Field Exam Required?
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Determined By: <i>[Signature]</i>

APPLICATION FOR CHANGE OF WATER RIGHT

- PURPOSE  DIVERSION OR WITHDRAWAL  
 PLACE  ADDITIONAL POINT OR POINTS

NAME: CITY OF ISSAQUAH **810cc** **DENIED** **FEE PAID** *4/30/97*  
 Bus. Tel. 391-1004  
 Home Tel. \_\_\_\_\_  
 Other Tel. \_\_\_\_\_  
 ADDRESS: PO Box 1307 (CITY) Issaquah (STATE) Washington (ZIP CODE) 98027  
 APPLICATION NUMBER: G1-22734 PERMIT NUMBER: G1-22734P CERTIFICATE NUMBER: G1-22734C  
 DECREED RIGHT (TITLE OF CASE): \_\_\_\_\_

APPROPRIATIONS MADE (GIVE DATE IF PRIOR TO JUNE 7, 1917 IF SURFACE WATER, OR JUNE 7, 1945 IF GROUND WATER)  
 IS THE WATER RIGHT RECORDED IN YOUR NAME?  YES  NO IF NO, GIVE NAME RECORDED UNDER \_\_\_\_\_

1. RIGHT CONSISTS OF  
 WATERS USED FROM (STREAM, LAKE, WELL, OR TRENCH, ETC.) Well GALLONS PER MINUTE OR CUBIC FEET PER SECOND 500 gpm  
 WATER CURRENTLY USED FOR Municipal Supply TIME OF USE Continuously

2. LOCATION OF PRESENT POINT OF DIVERSION OR WITHDRAWAL  
 ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.  
1280 feet south and 320 feet west from north 1/4 corner of Section 34  
 LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY  
SE 1/4 NW 1/4 34 24 6E King

IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION  
 LOT BLOCK OF (GIVE NAME OF PLAT OR ADDITION)

3. LEGAL DESCRIPTION OF LANDS WATER IS USED ON  
Within the corporate limits of the City of Issaquah

SECTION TOWNSHIP N. RANGE (E. OR W.) W.M. COUNTY  
 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ King

(ATTACH SEPARATE SHEET IF NECESSARY)  
 ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS? IF NO, EXPLAIN YOUR INTEREST  
 YES  NO

REASONS FOR THE PROPOSED CHANGE  
Well capacity dropped due to poor well construction and City no longer owns property where well was sited.

A MINIMUM FEE OF \$10.00 MUST ACCOMPANY THIS APPLICATION  
 CONTINUE ON REVERSE SIDE

4. CHANGE REQUESTED		
CHANGE WATER USE TO N/A	TIME OF USE N/A	GALLONS PER MINUTE OR CUBIC FEET PER SECOND N/A

5. LOCATION OF PROPOSED POINT OF DIVERSION OR WITHDRAWAL

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER.

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

1346 feet north and 1780 feet west of the Center of Section 34

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY
SE 1/4 NW 1/4 NW 1/4	34	24	6E	King

6. IF THIS IS WITHIN THE LIMITS OF A RECORDED PLATTED PROPERTY, COMPLETE THIS SECTION

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

ARE YOU THE OWNER OF THE LAND ON WHICH THE PROPOSED POINT OF DIVERSION OR WITHDRAWAL IS TO BE LOCATED

YES  NO

LEGAL DESCRIPTION OF LANDS WATER IS USED ON

Within the corporate limits of the City of Issaquah

SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY
			King

(ATTACH SEPARATE SHEET IF NECESSARY)

ARE YOU THE LEGAL OWNER OF THE ABOVE DESCRIBED LANDS IF NO, EXPLAIN YOUR INTEREST

YES  NO

\* PLEASE NOTE LEGAL LAND OWNER SIGNATURE AND APPLICANT SIGNATURE ARE BOTH REQUIRED. IF THE LEGAL LAND OWNER AND APPLICANT ARE THE SAME, PLEASE SIGN IN BOTH PLACES. THANK YOU.

LEGAL LANDOWNER (PLEASE PRINT)

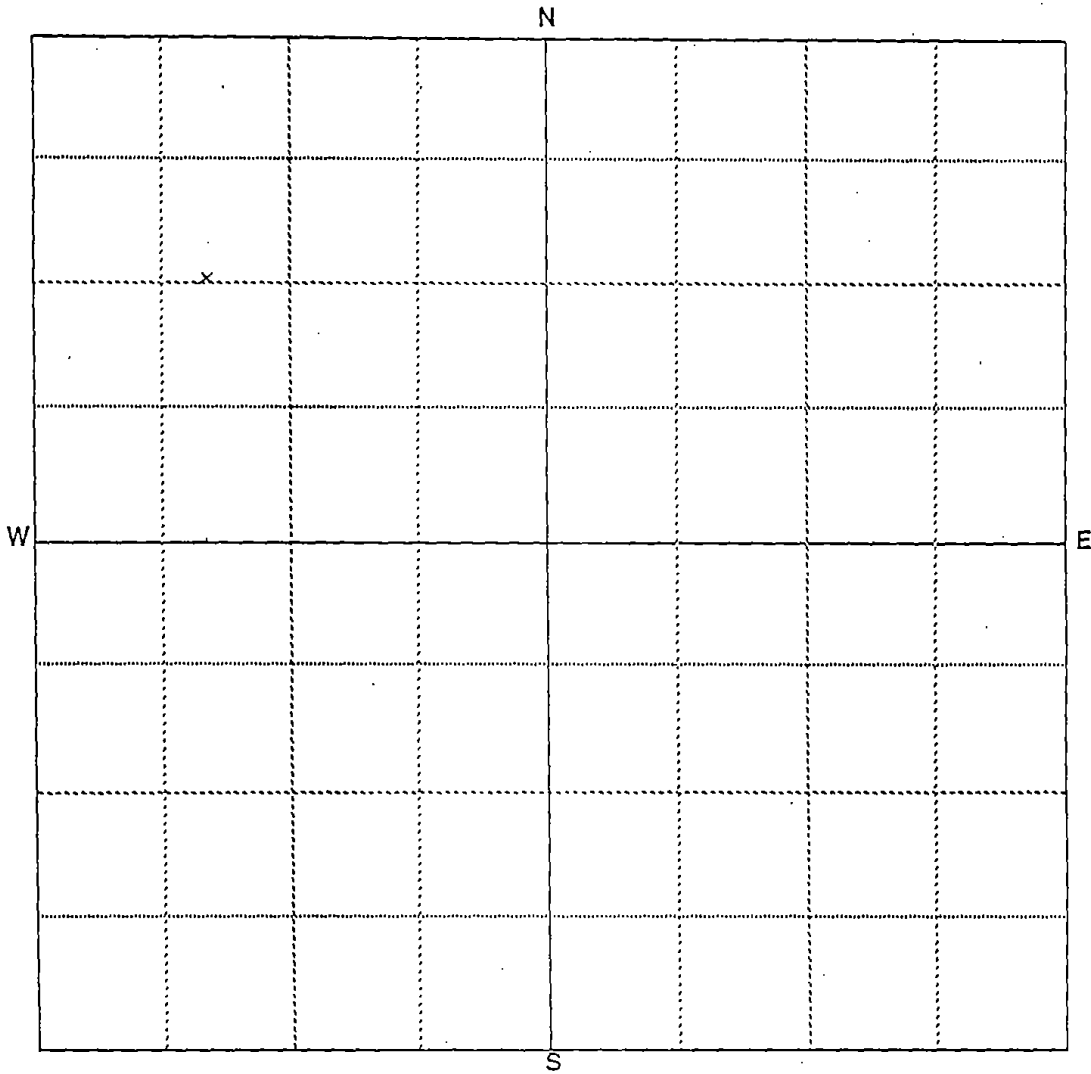
  
APPLICANT'S SIGNATURE

LEGAL LANDOWNER SIGNATURE (OWNER OF PROPERTY DESCRIBED IN ITEM NUMBER 3)

LEGAL LANDOWNER'S ADDRESS

SECTION MAP

Sec. 34 Twp. 24 N. R. 6E



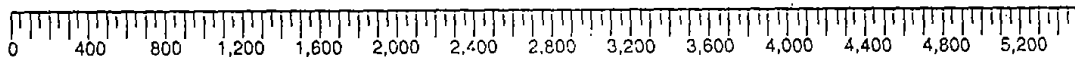
Scale: 1 Inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile. Indicate traveling directions from nearest town in space below.

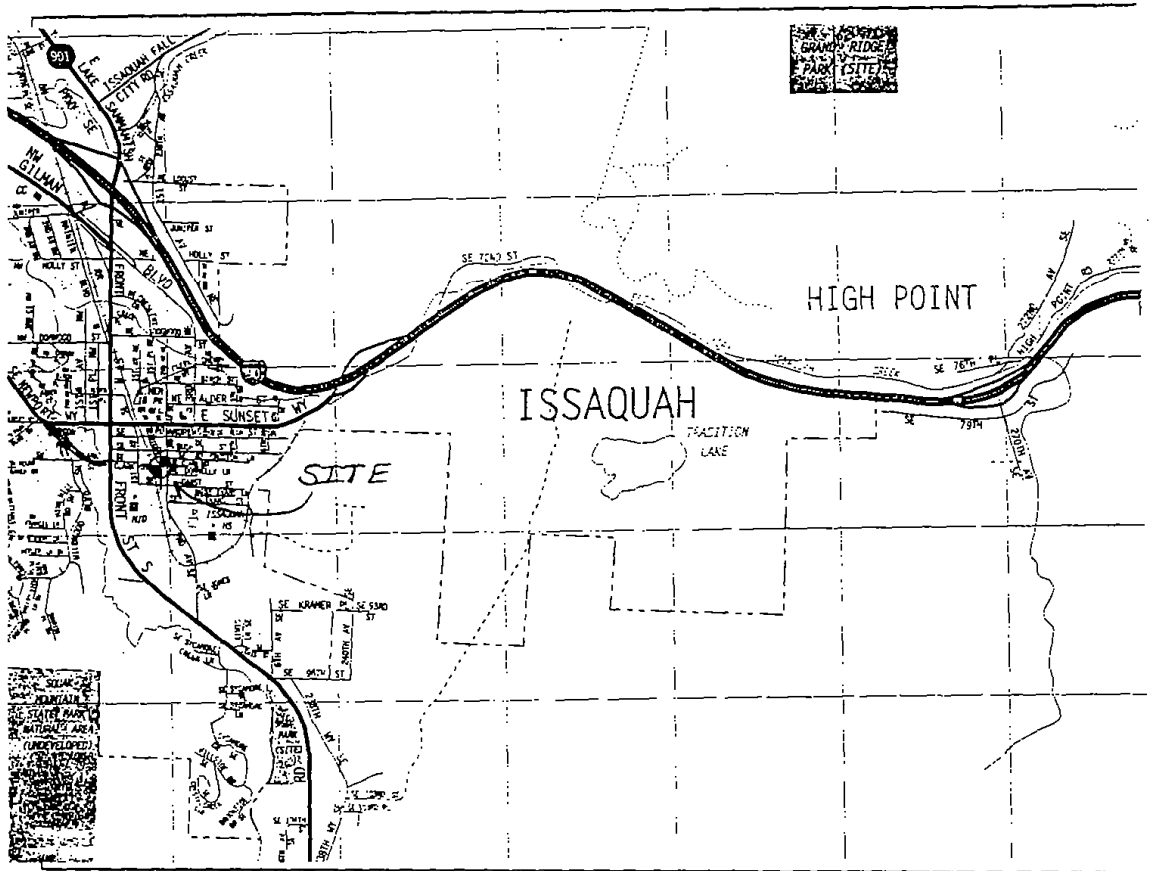
From Bellevue, Washington; take I-90 eastbound, exit off I-90 at Exit 17; go south on Front Street to SE Bush Street. Turn left (east) on SE Bush and go approximately 150 feet past the intersection with 1st Avenue SE and turn south into the parking lot. Go to southern end of parking area. Well site is between parking area and 2nd Avenue SE.

Detach here

Fold along scale.



Detach this scale at the perforation, fold excess paper under or cut off excess by cutting along the scale line. This scale corresponds to the SECTION MAP above. You can read feet directly from this scale to outline property and locate points of diversion or withdrawal on the SECTION MAP. Enclose this map along with the application and \$10.00 examination fee.



Your water right application will be processed by the Regional Office of the Department of Ecology having jurisdiction in the area in which your water works are located. Please submit your completed application form, maps, sketches, and \$10.00 examination fee to the appropriate Regional Office.

Northwest Regional Office  
 3190 - 160th Avenue S.E.  
 Bellevue, WA 98008-5452  
 Tel. (206) 649-7000  
 TDD (206) 649-4259

Central Regional Office  
 15 West Yakima Avenue, Suite 200  
 Yakima, Washington 98902-3401  
 Tel. (509) 575-2490  
 TDD (509) 454-7673

Southwest Regional Office  
 PO Box 47775  
 Olympia, Washington 98504-7775  
 300 Desmond Drive  
 Lacey, WA 98503  
 Tel. (360) 407-6300  
 TDD (360) 407-6306

Eastern Regional Office  
 N. 4601 Monroe, Suite 100  
 Spokane, Washington 99205-1295  
 Tel. (509) 456-2926  
 TDD (509) 458-2055

The appropriate Regional Office will be happy to answer any further questions you may have.

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs please contact the appropriate Regional Office from above.



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

JUN 13 2003

CERTIFIED MAIL

7002 3150 0004 8540 3640

City of Issaquah  
Attn: Sheldon Lynne  
P.O. Box 1307  
Issaquah, WA 98027

Dear Mr. Lynne:

RE: Denial of Ground Water Right Change - Application No. G1-22734C

Enclosed is the Department of Ecology's Report of Examination, No. G1-22734C. This report constitutes our determination and order regarding the above referenced application.

This change application has been **denied**.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of receipt of this Order**. Send the appeal to: Pollution Control Hearings Board, PO Box 40903, Olympia, Washington 988504-0903. At the same time, a copy of the appeal **must** be sent to: Department of Ecology, Water Resources Appeals Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of the date the Order was mailed** in the same manner described above. An appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320.

If you have any questions or concerns on the above information, please call the Department of Ecology at (425) 649-7000.

Sincerely,

Daniel L. Swenson  
Water Resources Supervisor  
Northwest Regional Office

DS:dh  
Enclosure:

I certify that I mailed this Order, or an identical copy thereof, postage prepaid, to the above addressee(s) this 13<sup>th</sup> day of June 2003. Dieder Holt (Signature)



U.S. Postal Service  
**CERTIFIED MAIL™ RECEIPT**  
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**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

7002 3150 0004 8540 8640

Send To: CITY OF ISSAQUAH  
 ATTN: SHELDON LYNNE  
 Street, Apt. No. or PO Box No. BOX 1307  
 City, State, ZIP+4® ISSAQUAH WA 98027

PS Form 3800, June 2007 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>Shirley A. Lambert</i></p> <p>B. Received by (Printed Name) <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>SHIRLEY A. LAMBERT</i></p> <p>C. Date of Delivery</p> <p><i>6/16/13</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>
<p>1. Article Addressed to: <i>WR. G1-22734C</i></p> <p>CITY OF ISSAQUAH          ATTN: SHELDON LYNNE          P O BOX 1307          ISSAQUAH WA 98027</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number</p> <p>[REDACTED]</p>	
<p>PS Form 3800, August 2007 Domestic Return Receipt</p>	<p>102505-02-M-1035</p>



**STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY**

**REPORT OF EXAMINATION FOR CHANGE TO GROUNDWATER RIGHT  
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 263, Laws of Washington for 1945 and amendments thereto, and the rules and regulations of the Department of Ecology.)

PROPERTY DATE: September 1, 1976	APPLICATION NUMBER: G1-22734A	PERMIT NUMBER: G1-22734P	CERTIFICATE NUMBER: G1-22734C
-------------------------------------	----------------------------------	-----------------------------	----------------------------------

NAME: City of Issaquah			
ADDRESS (STREET): P.O. Box 1307	CITY: Issaquah	STATE: Washington	COUNTY: 98027

**PUBLIC WATERS TO BE APPROPRIATED**

SOURCE: Request Denied to change Point of Withdrawal to City of Issaquah Well #6		
TERRITORY OF THE SURFACE WATERS:		
MAXIMUM CUBIC FEET PER SECOND: N/A	MAXIMUM GALLONS PER MINUTE: N/A	MAXIMUM ACRE FEET PER YEAR: N/A

QUANTITY, TYPE OF USE, PERIOD OF USE:

N/A

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL: 700 feet west and 800 feet south of the NE corner of SE ¼ of Section 28					
LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION): NE¼ SE¼4	SECTION: 28	TOWNSHIP N: 24N	RANGE, E OR W & W.M.: 06E	WRIA: 8	COUNTY: King

**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OR GIVE NAME OF PLAT OR ADDITION
-----	-------	----------------------------------

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

Water service area of the City of Issaquah as described in its 2002 Water System Plan, the boundaries of which are shown below:

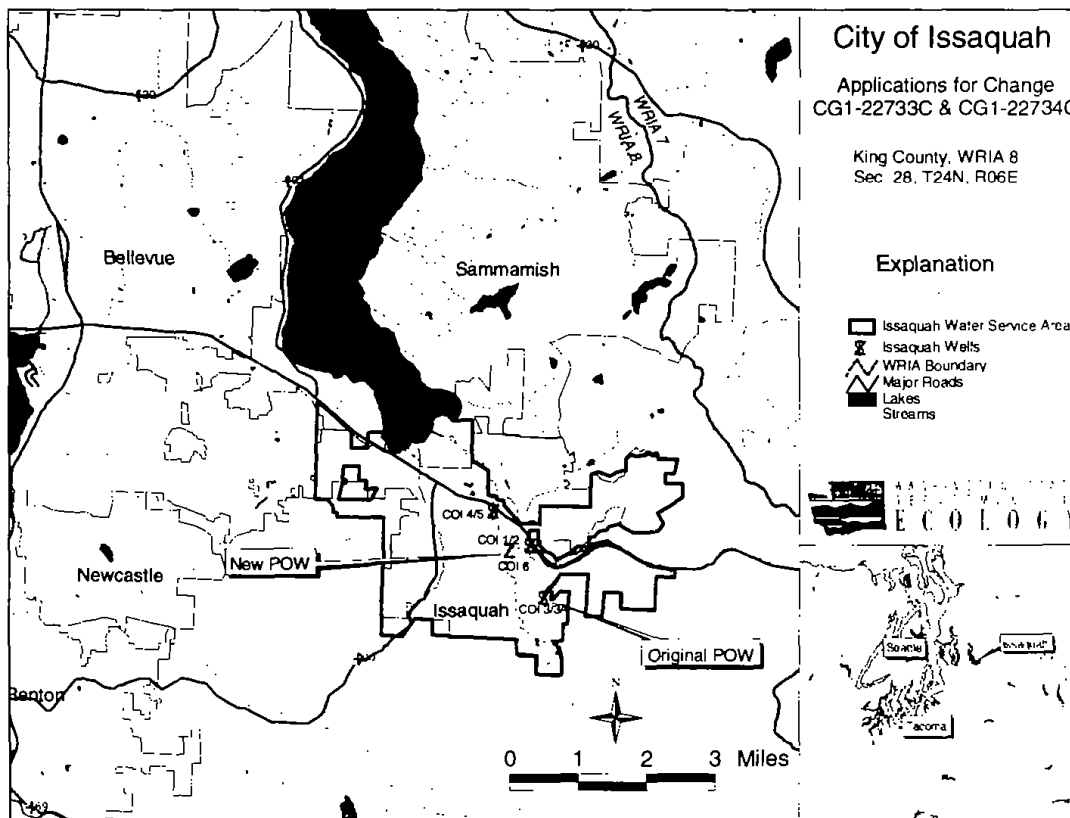


Figure 1: City of Issaquah water system service area and location of wells.

**DESCRIPTION OF PROPOSED WORKS**

City of Issaquah Well 6 (COI-6), drilled at a 16-inch diameter and tested in July 1998, was completed at a depth of 378 feet. A 20-inch diameter surface seal was installed to a depth of 18 feet. A 10-inch screen is installed from 258 to 363 feet.

**DEVELOPMENT SCHEDULE**

BEGINS PROJECT BY THIS DATE:	COMPLETES PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Begun	N/A	N/A

**REPORT**

**BACKGROUND INFORMATION**

The City of Issaquah was granted surface water rights for the East Fork (East Fork) of Issaquah Creek in 1936. This surface water right (SWC 1087) became unusable when Interstate 90 was built over the diversion structure in the early 1970's through the East Fork watershed. The water right that is the subject of this application for change (G1-22734C and companion application G1-22733C) was filed with Ecology in 1976 to serve as a replacement for their compromised East Fork surface water source.

At the time water under G1-22733C and G1-22734C was allocated for wells COI-3A and COI-3 respectively, the City was utilizing groundwater from City of Issaquah Wells 1 and 2 (COI-1 and COI-2), located between Gilman Boulevard and Interstate 5, east of Front Street in the city of Issaquah. The water rights for COI-1 and COI-2 were allocated a total Qa of 2600 afy, which Ecology in 1977 believed adequate to accommodate the estimated 10,000 population projected for the year 1997. For this reason the annual quantities under G1-22733C and G1-22734C were made supplemental to those for COI-1 and COI-2.

By the early 1990's City Wells 3A and 3 (COI-3A COI-3), utilizing water under G1-22733C and G1-22734C, were no longer able to produce an adequate supply of water due to construction errors. These wells were abandoned and decommissioned 1993. The City filed for a change in point of withdrawal for G1-22733C and G1-22734C in May 1997. Evidence provided by the City of Issaquah, including photographs of the well house and notes showing pumping records, the existence in the field of remaining infrastructure, as well as drill and decommission logs, and proof of appropriation documentation indicate that the city worked diligently toward perfection prior to filing an application for amending the water right.

**Attributes of the Original Certificate**

Name on Certificate:	City of Issaquah
Priority Date:	Sept. 1, 1976
Instantaneous Quantity:	500 gallons per minute (gpm)
Annual Quantity:	645 acre-feet per year (afy) *supplemental to GWC 6343 and 7031
Point of Withdrawal:	SE¼ NW¼ of Section 34, Township 24 North, Range 6 East
Purpose of Use:	Municipal Supply
Period of Use:	Continuously
Place of Use:	Area Served by City of Issaquah

**Proposed Change**

Name of Applicant:	City of Issaquah
Date of Application for Change:	April 30, 1997
Point of Withdrawal:	NE¼ SE¼ of Section 28, Township 24 North, Range 6 East
Notice of Publication:	The Issaquah Press – July 10 and July 17, 2002
Protests:	None

**INVESTIGATION**

In considering this application, my investigation included, but was not limited to research and/or review of:

- The State Water Code
- Existing water rights on file for City of Issaquah Water System
- Records of other water rights in the vicinity
- Notes from a site visit on March 18, 2002
- Correspondence from Sheldon Lynn, City of Issaquah Public Works Department
- GIS, topographic and local area maps
- City of Issaquah 2002 Water Comprehensive Plan Draft
- Issaquah Creek Valley Groundwater Management Plan, March 1999
- Reports on wells tests and groundwater exploration (Golder, 2000a), geophysical survey (Golder, 1997), and computer groundwater modeling (Golder, 2000b), all prepared by Golder Associates for the City of Issaquah.
- Technical Memorandum regarding "Technical Water Right Transfer Groundwater Withdrawal Issues From Well COI-6" prepared by Golder Associates hydrogeologist Robert Anderson, P.G. for the City of Issaquah (Golder, 2002).
- Technical Memorandum regarding the "Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed" prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe (Massmann, 2001).

Elements of this report dealing with hydrogeological assessment of the proposed water right change were prepared by the author, Douglas H. Wood, a Washington State licensed hydrogeologist (License #952).

**State Water Code**

Chapter 90.44 RCW authorizes the appropriation of public groundwater water for beneficial use and describes the process for obtaining groundwater rights including the process to amend or change existing rights. Laws specifically governing the ground water right permitting process are RCW 90.03.250 through 90.03.340 and RCW 90.44.060. Changes or amendments to ground water rights are regulated under RCW 90.44.100 and RCW 90.03.290.

**Recorded Rights for the City of Issaquah Water System**

The City of Issaquah holds 6 certificates of water right (Table 1) with an aggregate annual quantity (Qa) allocation of 2,800 acre-feet per year (afy). Instantaneous quantity (Qi) allocated under these rights totals 3030 gallons per minute (gpm).

The city serves a population of approximately 11,000 (Year 2000 OIM) and serves some 7,515 ERU's (Equivalent Residential Units). The city's total year 2000 production was approximately 1,850 acre-feet, 8% of which was purchased from the City of Bellevue. Year 2001 production from operating city wells was approximately 1,600 acre-feet, as shown in Table 1. Planned and potential annexations (some of which have already occurred) and growth, based on a conservative annual growth factor 0.5%, as detailed in the City of Issaquah Draft 2002 Water Comprehensive Plan (2002 WCP), would expand the population to over 40,000 by the year 2020 serving nearly 18,000 ERU's. Based on an average daily consumption per ERU of 209 gallons per day (2002 WCP), the year 2020 projected Qa requirements would amount to approximately 4,200 acre-feet.

It is apparent from these growth estimates that the city's current water rights are inadequate. To address the forecasted shortfall in water needs, the City of Issaquah has contracted with the City of Seattle to supply surface water via a pipeline constructed in 2001. It is also apparent that the city's current approximately 60% usage of its allocated Qa of 2800 afy (Table 1) afy will likely rise to serve a portion of increased demand.

**Table 1: City of Issaquah Water Rights Summary**

Well #	Certificate #	Priority Date	Qi (gpm)	Qa (afy)	2001 Use (Gal)	2001 Use (afy)
COI-1	6343-A	03/30/67	630	1,000	78,110,000	240
COI-2	7031-A	03/11/69	1,200	1,600	221,320,000	680
COI-3A	G1-22733C	09/01/76	300	119*		
COI-3	G1-22734C	09/01/76	500	645*		
COI-4	G1-24809C	03/10/86	250	200	14,220,000	44
COI-5	G1-24633C	04/02/85	150	1,600**	207,620,000	637
<b>Total</b>			<b>3,030</b>	<b>2,800</b>	<b>521,270,000</b>	<b>1,600</b>

\* Supplemental to 6343-A and 7031-A (max cumulative = 2600 afy)

\*\* Supplemental to G1-24809C, 6343-A and 7031-A (max cumulative = 2800 afy less amount from Wells 3 and 3A)

**Other Water Rights in the Vicinity**

A search of the Ecology water rights records indicates that there are 33 water rights, including those held by the City of Issaquah, within an approximate 1 mile radius of the proposed point of withdrawal in this application (Table 2).

**Table 2: Issaquah Area Water Rights**

Name	WR No.	Purpose*	CFS	GPM	AFY	Priority	Sec	Twn	Rng	Qtr-Qtr Sec
CARLSON B J	SWC-09859	IR,CI	-	-	3.6	7/16/1965	27	24	6E	NW/4NW/4
CARLSON BERTIL J	S1-00626C	FS	0.18	-	-	6/27/1969	27	24	6E	NW/4NW/4
Darigold Inc	G1-21648C	CI	-	1100	1232	5/16/1974	28	24	6E	NE/4SE/4
Darigold Inc	GWC-00311	CI	-	500	405	4/6/1949	28	24	6E	NE/4SE/4
EISENTRAGER NORMA	S1-23145C	DS	0.001	-	0.5	6/9/1978	33	24	6E	SW/4SE/4
HILLERY D R	SWC-04972	DS	0.005	-	-	10/9/1951	33	24	6E	NE/4NE/4
HILLERY D R	SWC-04971	DS	0.005	-	-	10/19/1951	33	24	6E	E/2E/2NE/4
KEES T D	SWC-11359	DS	0.01	-	1	2/16/1960	34	24	6E	SE/4SE/4
Lakeside Gravel Co	GWC-00570	DS,CI	-	650	250	6/13/1950	27	24	6E	NW/4NW/4
Lakeside Gravel Co	GWC-01327	DG,CI	-	850	316	8/18/1952	27	24	6E	NW/4NW/4
LARSON E	SWC-04970	DS	0.01	-	-	10/9/1951	27	24	6E	SW/4SE/4
MCCRAY E	SWC-04858	DS	0.005	-	-	5/11/1952	27	24	6E	
MILES L	SWC-01643	IR,DS	0.02	-	-	8/20/1937	27	24	6E	SE/4SW/4
Mine Hill Community	SWC-06329	DM	0.2	-	-	5/27/1954	33	24	6E	SW/4NE/4
NIX F E	SWC-01814	IR,DS	0.01	-	-	8/15/1941	27	24	6E	
Pickering Brothers	GWC-02985	DM	-	20	32	5/24/1956	28	24	6E	SW/4NW/4
SMITH EUGENE	SWC-01780	IR,DS	0.05	-	-	8/25/1939	27	24	6E	
SPWSD	G1-00289C	MU	-	3200	936	1/20/1972	28	24	6E	NE/4NE/4
SPWSD	G1-25428P	MU	-	2300	-	4/24/1989	28	24	6E	NE/4NE/4
SPWSD	G1-26014P	MU	-	2000	1608	12/24/1990	27	24	6E	SW/4NW/4
Squak Valley Water Club	SWC-07582A	DM	0.09	-	-	10/20/1958	33	24	6E	SE/4SE/4
STONEBRIDGE E M	SWC-06600	DS	0.005	-	-	7/15/1952	33	24	6E	NE/4NE/4
STROM WARNER A	SWC-04565	PO,DS	0.1	-	-	8/5/1936	33	24	6E	NE/4NE/4
Washington DFW	SWC-01330	FS	10	-	-	1/28/1939	33	24	6E	NE/4SE/4
Washington DFW	SWC-11478	FS	10	-	-	3/29/1968	33	24	6E	NE/4NE/4
Washington DFW	S1-00735C	FS	16	-	-	11/14/1970	33	24	6E	
WILTSE F G	SWC-07573	DS	0.01	-	-	3/24/1958	33	24	6E	SE/4NE/4

\* IR=Irrigation, CI=Commercial, FS=Fire Safety, DS=Single Domestic, DG=General Domestic, DM=Multiple Domestic, MU=Municipal, PO=Power

Nineteen surface water rights are located in the immediate area of the proposed new point of withdrawal. These include 12 single hook-up domestic surface water rights (3 of which include irrigation), 4 for fish propagation (3 of which, totaling 36 cfs are held by Washington Department of Fish and Wildlife for use at the Issaquah Salmon Hatchery), one used for commercial purposes and irrigation, and two for community domestic water systems.

Surface and groundwater rights of significant quantity in the area of the proposed new well (Figure 2) include those used by the Lakeside Gravel Quarry (Qi = 1500 gpm, Qa = 566 afy), the WA Department of Fish and Wildlife (WDFW) Issaquah Salmon Hatchery (Qi = 36 cfs, non-consumptive), Darigold (Qi = 1600 gpm, Qa = 1637 afy), and the municipal water systems that share the Issaquah Valley Aquifer - Sammamish Plateau Water and Sewer District (Qi = 5500 gpm, Qa = 2109 afy) and the City of Issaquah (Qi = 3030 gpm, Qa = 2800 afy). The Sammamish Plateau water rights in the valley also include supplemental and seasonal rights allowing a pumping rate of up to 6,500 gpm during the winter months.

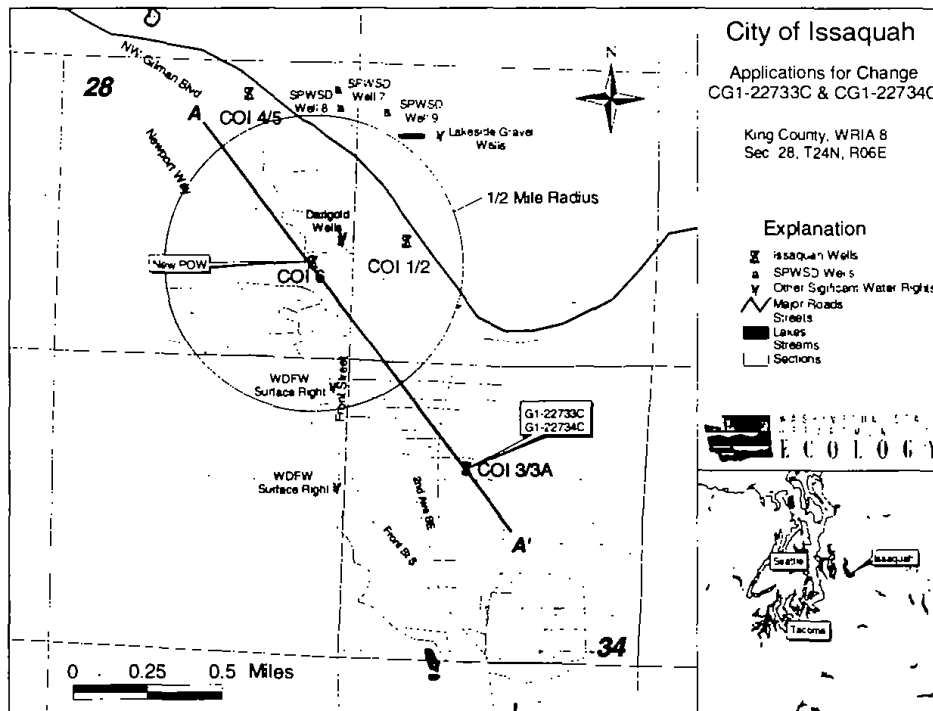


Figure 2: Detail map showing location of proposed changes and surface trace of geological cross-section (Figure 6).

#### Site Visit

The sites of COI-6 and the original COI-3A/3 location were visited by the author, Douglas Wood, on March 18, 2002. Water system infrastructure and well house foundations were examined at the former site of COI-3A/3. The COI-6 site was examined and it was noted that the well site is located in the city's works yard. The COI-6 wellhead is currently covered and fenced off to secure the site from potential contamination. Mr. Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, informed Ecology during the site visit that the city will soon relocate the city works yard, which will further protect the wellhead area.

#### Correspondence Received

The City of Issaquah was granted a Preliminary Permit to drill and test two wells to replace wells COI -3, and 3A on May 30, 1997. A letter from Sheldon Lynne, Deputy Director of the Public Works Engineering Department for the City of Issaquah, dated February 23, 1998, informed Ecology that the results of the City's tests indicated that the new well for both water rights will be the well designated COI-6.

Mr. Steve Bessow of the Washington Department of Fish and Wildlife (WDFW), after reviewing the proposed changes for G1-22733C and G1-22734C, informed Ecology in a letter dated May 29, 2002, that WDFW has no objections or comments to these changes. In a letter dated February 14, 2003, Mr. Bessow, upon reviewing more recent information on the proposed new point of withdrawal, recommended that groundwater withdrawals in hydraulic continuity and Issaquah Creek be considered surface water diversions and thus closed to appropriation. He also requested that any replacement wells be denied if found to be in other than negligible hydraulic continuity the surface waters.

#### Topographic and Local Area Maps

Geological maps and reports, published through the US Geological Survey and from other sources relevant to this investigation were examined to provide geological and hydrological conditions relevant to the proposed change in point of withdrawal. Maps generated using ArcView GIS software were used to examine locations of the proposed new point of withdrawal in relation to other City wells, other water rights, and to Issaquah Creek and other surface water bodies.

#### City of Issaquah Water System Plans

The City of Issaquah 1996 Water System Plan Update and the Draft 2002 City of Issaquah Water Comprehensive Plan (2002 WSP) provide information on system infrastructure, existing system water rights, growth projections, and water system boundaries.

#### Issaquah Creek Valley Groundwater Management Plan

The 1999 Issaquah Creek Valley Groundwater Management Plan and supplemental Area Characterization provide hydrogeological background information and insight into water issues within the Issaquah area.

#### Golder Associates Reports for the City of Issaquah

City of Issaquah supplied their consultant's (Golder Associates) reports on groundwater assessment, geophysical studies of the Issaquah valley, well tests and aquifer modeling. These reports provided a detailed assessment of hydrogeological conditions within the Issaquah Valley Aquifer. The most recent detailed technical document supplied by the applicant is a

report entitled "Groundwater Extraction and Pumping Tests - Lower Issaquah Valley" dated October 30, 2000. This report (Golder, 2000a) contains pump tests data for the proposed new well (COI-6) and has cross-sections and hydrogeological interpretations based on these tests and geophysical and modeling studies relayed in earlier reports. The November 2000 report on modeling (Golder, 2000b) provides short and long-term modeled estimates of the effects on stream flows resulting from pumping at the proposed new point of withdrawal. Additionally, a technical memorandum presenting a comparison of the hydrogeological characteristics of the proposed new point of withdrawal with those of the original wells included in the application, prepared by Golder Associates hydrogeologist Robert Anderson in October 2002, was supplied the City of Issaquah (Golder, 2002).

**Effects of Groundwater Extraction on Stream Flow in the Issaquah Creek Valley Watershed**

The report, in the form of technical memorandum, was prepared by Dr. Joel Massmann for the Muckleshoot Indian Tribe, February, 2001. This report discusses the effects of groundwater withdrawals on stream flows in Issaquah Creek (Massmann, 2001).

**FINDINGS**

In accordance with Ecology policies and Washington State law, the following considerations were addressed during the process of evaluating this change request:

- Will the change create an enlargement of the original right?
- Has a protest been filed against the proposed change?
- Will the change cause impairment to other existing rights?
- Is water available at the new point of withdrawal?
- Does the new point of withdrawal tap the same source of water as the original right?
- Is there potential for different impacts on the water source?
- Will the proposed change be detrimental to public welfare?

**Potential for Enlargement**

Washington State statutory and case law require that approval of a groundwater change must not result in an enlargement of the right (RCW 90.44.100; Schuh v. Ecology, 100 Wn.2d 180; Merrill v. PCHB, 137 Wn.2d 118). In the Merrill decision the Washington Supreme Court also requires Ecology to evaluate whether the right has been relinquished to the State through non-use or abandonment.

Based on the Washington Supreme Court's 1998 Theodoratus case (135 Wn.2d 582), Ecology reviews applications for changes or amendments to groundwater certificates that were issued pursuant to RCW 90.44.080, where an evaluation was not performed as to the perfected annual quantity put to beneficial use before issuance of the certificate.

The proof of appropriation for G1-22734C was filed on June 9, 1981. The document states that instantaneous quantity was perfected in the amount of 1100 gpm. Ecology permit writer Janet Jorg determined at that time that the actual pumping rate was 500 gpm, consistent with the permit, G1-22734P, issued March 15, 1977.

Based on proof of appropriation documentation, copies of notes on water production provided by the City of Issaquah, drilling and decommissioning logs on file with Ecology, and remaining infrastructure seen in field, it is tentatively determined that the right has been beneficially used for municipal supply purposes and is eligible for change.

The water right being investigated (G1-22734C) was certificated for municipal purposes. The right is therefore exempt from relinquishment for non-use under RCW 90.14.141(d).

The common law principal of abandonment is applicable in the case of municipal water rights. Common law abandonment, as discussed by the Supreme Court of Washington 1997 Twisp Case (133 Wn.2d 769), does not however apply to the current application. The City of Issaquah made efforts to replace the wells through the filing of this application in 1997, thus establishing that the city did not intent to abandon the right after decommissioning the well in 1993.

Certificate G1-22734C was issued in the amount of 500 gpm on August 31, 1981, with an annual quantity of 645 afy, supplemental to existing rights under certificates GWC 6343-A and GWC 7031-A.

	COI-1	COI-2	COI-4	COI-5
JAN	2,370,000	13,860,000	190,000	18,010,000
FEB	0	15,900,000	0	17,170,000
MAR	0	21,460,000	0	15,060,000
APR	0	15,246,000	0	18,570,000
MAY	5,540,000	17,766,000	0	21,000,000
JUN	11,420,000	22,176,000	0	10,290,000
JUL	11,660,000	28,917,000	2,240,000	14,740,000
AUG	10,660,000	24,633,000	3,190,000	21,690,000
SEP	8,640,000	20,601,000	2,550,000	20,790,000
OCT	9,880,000	11,907,000	1,630,000	20,290,000
NOV	8,960,000	13,797,000	2,110,000	14,410,000
DEC	8,980,000	15,057,000	2,310,000	15,600,000
<b>Total (gal)</b>	<b>78,110,000</b>	<b>221,320,000</b>	<b>14,220,000</b>	<b>207,620,000</b>
<b>Total (afy)</b>	<b>239.71</b>	<b>679.21</b>	<b>43.64</b>	<b>637.16</b>

\* Supplied by City of Issaquah

The annual quantity of 645 afy allocated under G1-22734C is supplementary to groundwater certificates 6343-A and 7031-A, therefore perfection of the annual quantity under G1-22734C requires that 645 afy be utilized in any year by the wells sharing the primary annual quantity (2600 afy).

Well production records for the year 2001 for city wells COI-1, COI-2 and COI-5, all of which share the same 2600 afy annual quantity, were supplied by the Public Works Department of the City of Issaquah (Table 3). These show that in 2001 COI-1 and COI-2 produced 918.9 afy and COI-5 produced a further 541.6 afy supplementary to COI-1/2 (the remaining production from COI-5 was supplemental to water rights for COI-4), giving a total use of 1460 afy under the 2600 afy allocation for the COI-1/2 water rights.

Quantities available for change for water under G1-22734C are 500 gpm Qi and 645 afy Qa. Annual quantity remains supplementary to the rights under certificates 6343-A and 7031-A, whose annual usage of 1,460 afy for the year 2001 is in excess of the 764 afy allocated under groundwater rights for G122734C (645 afy) and G1-22733C (119 afy).

Given the above analysis, it is the finding of this investigation that approval of the requested change will not result in an enlargement of the right.

### Protests

There were no protests filed in response to the proposal to change the point of withdrawal from wells COI-3A/3 to well COI-6. The Muckleshoot Indian Tribe however has expressed concerns that approval would result in a greater total withdrawal from the Issaquah Valley Aquifer and that the connectivity between the aquifer and streams would cause impairment to instream flows necessary to support fish populations.

Ecology, as expressed in this report, recognizes the relationship between groundwater withdrawals, stream flows and fish habitat. Based on the information reviewed as part of this investigation, it is tentatively found that the City of Issaquah retains the right to the withdrawal of groundwater under certificates G1-22733C and G1-22734C as established under Chapter 90.44 RCW and is entitled under RCW 90.44.100 to propose a change to the point of withdrawal so long as (1) the proposed change will not result in an enlargement as conveyed by the original certificate, (2) the new point of withdrawal taps the same body of groundwater, (3) water is available at the new point of withdrawal, (4) the change does not impair existing water rights, and (5) the proposed change is not detrimental to the public interest.

The findings of this investigation are that the City of Issaquah and its consultants have provided sufficient evidence to show that the proposed new point of withdrawal would tap the same aquifer, is not likely impair existing water rights, and will not constitute an enlargement under the certificate. However Ecology's investigation reveals that the change as proposed is likely to cause a greater impact to stream levels, particularly in the mainstem of Issaquah Creek close to the location of the Issaquah Salmon Hatchery, than withdrawals from the well original location, thus indicating that a potential detriment to the public interest would result if the proposed change were approved.

### Impairment of Other Rights

Aquifer tests and computer groundwater modeling conducted by Golder Associates after construction of COI-6 (Golder, 2000a and 2000b) indicate that pumping at the proposed new point of withdrawal will result in a 0 to 1 foot drawdown on groundwater levels in the shallow aquifer zone which is also utilized by the Darigold Dairy wells and City of Issaquah wells COI-1 and COI-2 (Figure 3).

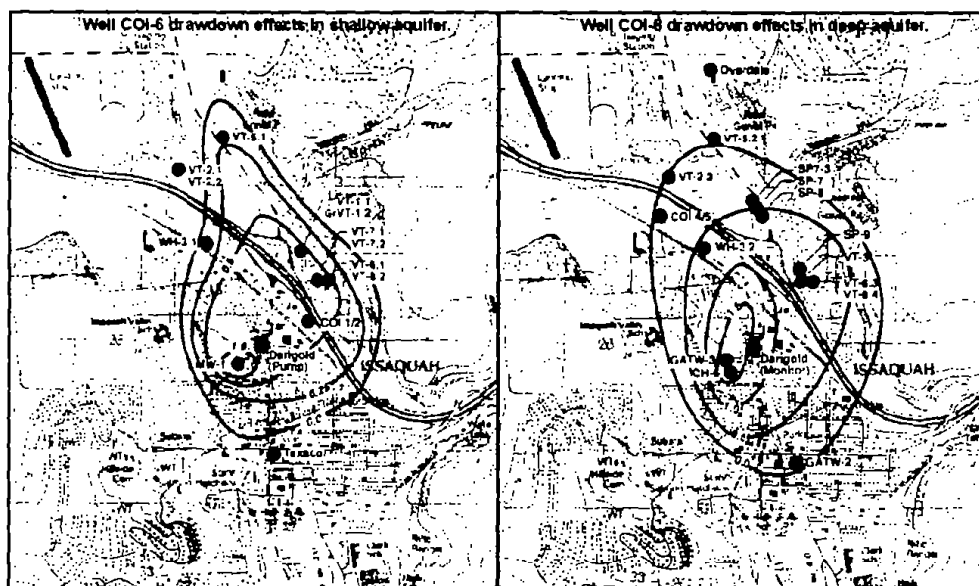


Figure 3: Drawdown effects from proposed well COI-6.

The amount of drawdown in wells tapping the deeper portion of the aquifer is greater than within wells utilizing shallow groundwater. The drawdown, from 0 to greater than 1.5 feet, is not however expected to cause interference which would unduly impact existing groundwater water rights within its zone of influence. The same may not be true with respect to surface water bodies in hydraulic continuity with groundwater within the zone of influence (cone of depression).

Surface bodies in hydraulic connection with the Issaquah Valley Aquifer within the zone of influence of the proposed new point of withdrawal will probably be impacted by pumping. The degree of impact was not measurable during testing of Well COI-6, however it is likely to be noticeable through long term continuous pumping as is authorized under the existing certificate, with its greatest impact felt within the drawdown area outlined for the shallow aquifer zone in figure 3. It is not

likely however that the total quantity of water produced from the proposed new well derived from surface water bodies would be greater than that which would result from pumping at the original point of withdrawal (Massmann, 2001).

The small amount of drawdown encountered for the deep aquifer zone in the testing of COI-6 is indicative of significant hydraulic continuity between the deeper portions of the Issaquah Valley Aquifer with shallower groundwater and surface water. Minimum instream flows set by regulation under chapter 173-508 WAC represent water rights which must be considered under an impairment evaluation for a change or amendment to a water right. However Issaquah Creek and its tributaries were closed to further appropriation under WAC 173-508-030 and 040 rather than having minimum instream flows set. An evaluation of impairment to the creeks as existing water rights is therefore not appropriate for the application under consideration. It is appropriate however for Ecology to investigate whether any impact the proposed new point of withdrawal might have on stream flows would be contrary to public interest (see section of this report on Public Interest).

#### Source of Water and Availability

The Issaquah Valley Aquifer system is hosted in alluvial and glacial sand and gravel deposited during and following the most recent ice age which lasted from approximately 35,000 to 10,000 years before present. It is located in the east-central portion of WRIA 8 (Cedar-Sammamish Water Resources Inventory Area), within an area designated herein as the Issaquah - Lake Sammamish sub-basin (Figure 4).

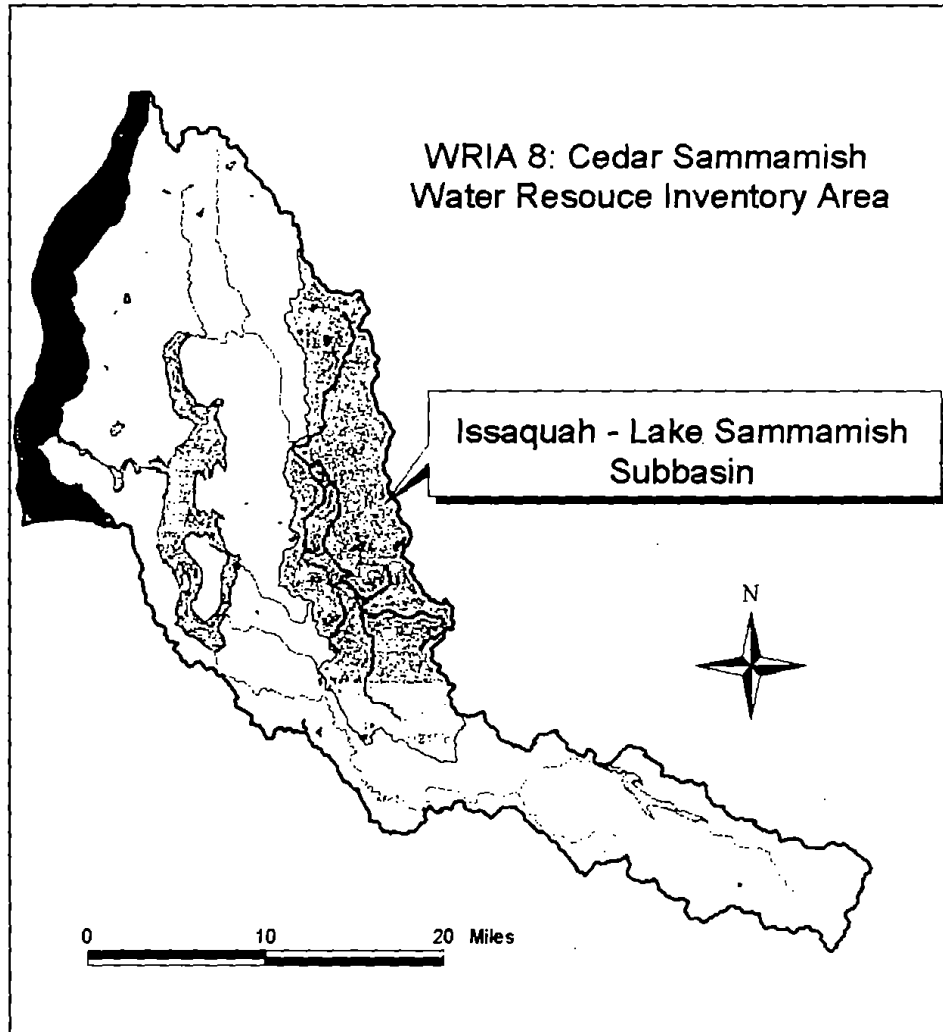


Figure 4: Map showing location of the Issaquah-Sammamish sub-basin of WRIA 8.

Issaquah Creek has three principal tributaries: the mainstem, East Fork, and North Fork (Figure 5). The mainstem drains the south and westernmost slopes of Tiger Mountain and the eastern slopes of Squak Mountain. The East Fork of Issaquah Creek drains the south flank of Grandview Ridge, the northern slopes of Tiger Mountain and the Tradition Lake Plateau. The North Fork of Issaquah Creek drains a portion of the Issaquah Highlands/Grand Ridge area and the western edge of the southernmost portion of the Sammamish Plateau.

Groundwater recharge for the Issaquah Valley Aquifer system is supplied by infiltration of rainfall from the northern slopes of Squak and Tiger Mountains, the lower portions of the Issaquah valley, the Tradition Lake Plateau, and a portion of the Issaquah Highlands/Grand Ridge area. Near the confluence of the mainstem of Issaquah Creek and East Fork, the location of the proposed new point of withdrawal at well COI-6, the bulk of groundwater recharge originates from the northwestern slopes of Tiger Mountain, the eastern slopes of Squak Mountain and the Tradition Lake Plateau (Figure 5).

Longer term storage and recharge of the aquifer is possible from sandstone bedrock which underlies both Squak and Tiger Mountains, but little is known about the quantity of recharge from this source or its ability to store groundwater.

## Water Availability

A determination of water availability of a water right is made at the time the original water right application is investigated. The original Report of Examination on the water right, dated January 31, 1977, affirmatively established that water was available and a water right consisting of an instantaneous quantity of 500 gallons per minute with a supplemental annual quantity of 645 afy was issued.

Previously allocated groundwater rights totaling 2600 afy were already held by the City of Issaquah in 1977 and this primary annual amount was deemed sufficient to supply the city's then and projected needs (10,000 population by 1997). With this in mind the City of Issaquah was allocated a supplemental annual quantity under G1-22733C and G1-22734C. The annual quantity for Wells 3A and 3 are both supplemental to the primary quantities allocated under right for Wells 1 and 2 (GWC 6343-A and GWC 7031-A). All four wells utilize the same source, the Issaquah Valley Aquifer.

Subsequent to the issuance of permits for G1-22733 and G1-22734, the City of Issaquah applied for and was allocated additional groundwater rights from the Issaquah Valley Aquifer (G1-24809C and G1-24633C) for COI 4 and 5. In addition the Sammamish Plateau Water and Sewer District (SPWSD) has been issued groundwater rights for three wells located in the Issaquah Valley that utilize the same aquifer.

The groundwater recharge area of the Issaquah Valley Aquifer encompasses the surface area of the Issaquah Creek and Tibbets Creek watersheds (see Figure 5). While surface water from the entire watershed contributes to groundwater in the aquifer through losing stream segments, the groundwater regime in much of the southernmost Issaquah Creek watershed and most of the Tibbets Creek watershed does not contribute directly to groundwater recharge at the COI-6 location.

Most groundwater flow in the portion of the Issaquah Creek watershed situated south of Tiger and Squak mountains flows to the west into the aquifers of the Cedar River (WRIA 8) and Green River (WRIA 9) watersheds. Groundwater from the Tibbets Creek watershed is isolated from the location of COI-6 by a spur of bedrock extending north from Squak Mountain, and much of the groundwater north of the East Fork of Issaquah Creek (Issaquah Highlands/Grand Ridge area) flows northward into the Sammamish Plateau and the Snoqualmie Valley aquifer systems.

The bulk of recharge for the aquifer system at the location of well COI-6 originates as rainfall within the immediate valley area and from the Tradition Lake Plateau area (the East Fork watershed draining the northern slopes of Tiger Mountain and southern slope of Grand Ridge). This area encompasses approximately 7,000 acres of the over 45,000 acres within the Issaquah and Tibbets Creeks surface watershed (Figure 5).



Figure 5: Map showing the Issaquah and Tibbets Creek watersheds and the recharge area for the proposed new well.

Massmann (2001) estimates that Issaquah Valley Aquifer system receives approximately 14,000 to 18,000 afy (recalculated from 20 to 25 cfs) in recharge annually. Groundwater rights have been allocated for approximately 10,000 afy (Table 2) not including rights granted outside of the area within approximately one mile of well COI-6. Massmann (2001) also cites an estimate by Ecology that actual use from wells in the area is less than half of the current allocation or approximately 3,600 afy (5 cfs).

In the present application the proposed new point of withdrawal is further down-gradient within the same aquifer as the original point of withdrawal and recharge occurs from a larger catchment area, and thus would thus be more capable of supplying the same quantity of water.

Well test data supplied by the City (Golder, 2000a) suggest only minimal drawdown to the water table in the area of the new well (0 to 1 feet; see Figure 3). Tests were conducted during late summer when stream flows are most critical to fish habitat. Pump tests and stream gaging, done in conjunction with aquifer testing, indicate that surface water bodies are perched in late summer in this area and therefore not in close hydraulic continuity with the water table at the immediate area of the well during this part of the season. During the remainder of the year the water table associated with the Shallow Aquifer Zone is in closer hydraulic continuity with streams and creek levels would be affected.



Based on the results of computer modeling of the proposed new point of withdrawal (Golder, 2000b), long term pumping would result in 85% of well withdrawals being derived from shallow groundwater sources in close hydraulic continuity with Issaquah Creek (~500 gpm of 600 gpm modeled pumping after 300 days, when steady state is achieved). The model shows that if pumping is discontinued after 115 days, less than 50% of pumping volume would be derived from shallow sources (~270 gpm of 600 gpm).

While the total impact, in terms of both drawdown and stream capture, would be spread along the creek and over a wide area of the shallow aquifer zone, the strongest effects of pumping would occur in the immediate area of the proposed well within the cone of depression of the shallow aquifer zone as shown in Figure 3.

The model effects are reported as being conservative (Golder, 2000b), and therefore are likely overstated. Since the model was based on a pumping rate of 600 gpm, the estimates are not accurate for the proposed changes for G1-22733C and G1-22734C totaling 800 gpm, but still give a reasonable estimate of the magnitude of stream impact.

**Source of Water**

Both the original and the new point of withdrawal utilize groundwater from within the Issaquah Valley Aquifer system (see Figure 6). Therefore the proposed change conforms to requirements of RCW 90.44.100 that replacement wells must tap the same body of groundwater.

At both locations wells tap the deep, sand and gravel hosted, semi-confined, aquifer zone that is separated from the shallow water table aquifer zone (also hosted in sand and gravel) by a lower permeability silt, fine sand and clay layer of lacustrine origin. Lenses of silt and clay and in places glacial till, locally form low permeability layers that do not significantly restrict vertical mobility of water within the upper portion of the aquifer.

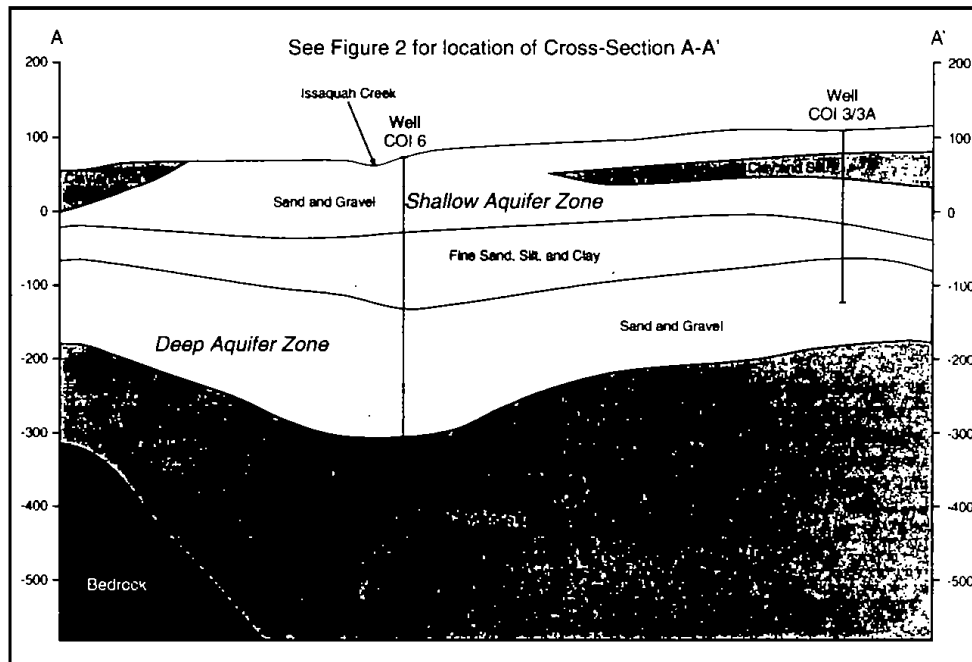


Figure 6: Cross-section between wells COI 3A/3 and the proposed new well COI 6 (after Golder and Associates, 2000).

**Potential for Different Impacts on the Water Source**

The City of Issaquah is currently utilizing (based on data supplied by the City of 2001 well production) 1600 afy out of their total allocation under existing certificates of 2800 afy. Approval of the applications for change for groundwater certificates G1-22733C and G1-22734C will result in the City being capable of producing 764 afy toward that amount. Note however that, under changes the legislature passed in 1997 to RCW 90.44.100, the city has the authority, independent of these applications, to drill a replacement well or wells at the original location of wells COI-3A/3, giving the City of Issaquah the freedom to use the entire 764 afy from rights under certificates G1-22733C and G1-22734C without filing applications for change.

The City's consultants (Golder, 2002) suggest that withdrawals from the proposed new point of withdrawal will result in less overall impact to the environment due to: (1) the greater thickness of the leaky aquitard at the new location (thus resulting in less impact to shallow groundwater and surface water bodies in the immediate area of the well), (2) a greater, more diversified recharge area for waters withdrawn at the proposed new well, and (3) because groundwater from the new well would not likely interact with surface water flows above Lake Sammamish.

While these claims appear on their face to be reasonable based on what is known about the aquifer and on the dynamics of pumping, it relies on an assumption that there will not be a direct impact on stream flows as a result of pumping. Pumping tests (Golder 2000a) however suggest that there will be an impact on the shallow aquifer zone within zone of influence (cone of depression) of the new well and hence on stream flows within the zone that would not occur with pumping at the original point of withdrawal. During pumping at the proposed new well, stream flow within the zone of influence that would have otherwise stayed within the stream and/or shallow aquifer zone, would instead be drawn down into the deeper aquifer zone and contribute to pumped volumes.

**Public Interest**

The East Fork, North Fork and mainstem of Issaquah Creek are closed by rule under WAC 173-508-030 and 173-508-040 to preserve stream flows required to support salmon habitat. The streams have been administratively closed since 1950 when the

Washington State Department of Fisheries requested that all remaining stream flows were required to support salmon spawning and rearing habitat. In 1971 the USGS performed field surveys of Issaquah Creek that indicated that flows between May and November were inadequate for support of fish populations, confirming that Issaquah Creek and all its tributaries should be closed.

Approval of the requested change in point of withdrawal will not alter the quantity allocated under certificate G1-22734C, thus there would be no net gain in the quantities available under the right from the source aquifer. There is information however that indicates the proposed change in the point of withdrawal would result in greater local contribution from closed streams to pumped quantities.

It is generally agreed among hydrogeologists that groundwater in alluvial aquifers is closely associated with surface water bodies occupying the same valley. The understanding of hydraulic continuity supports the concept that groundwater withdrawals from an alluvial aquifer divert all or a portion of the pumped volume from streams and other surface water bodies occupying surface areas of the alluvial valley.

The current application seeks to replace a point of withdrawal located on the periphery of the alluvial aquifer at a distance of approximately 2000 feet from each of two closed streams (East Fork and mainstem of Issaquah Creek) with a new point of withdrawal located approximately 200 feet from the streams. The effect of withdrawals from each location must be analyzed with respect to their effects on both streams in order to determine whether approval of the change will result in a net increase to the amount of water that the new well will derive from creek flow.

The degree to which pumping from a well can effect stream flows is largely dependent on the distance of the well from the stream, the depth from which water is withdrawn and on the ability of the aquifer and intervening aquitard media to allow the transmission of water (hydraulic conductivity).

Unconfined aquifers, i.e. aquifers not separated from the surface by a low permeability aquitard, are generally found to be in closer hydraulic continuity with streams. Withdrawals that derive water from unconfined aquifers, particularly when they are in close proximity to streams, have a more pronounced effect on stream flows than withdrawals from confined aquifers.

In the Issaquah Valley Aquifer an aquitard of varying thickness and hydraulic conductivity occurs such that the degree of hydraulic connection between the point of withdrawal and surface streams is largely dependent on the position within the valley of the well. An aquitard overlying a confined aquifer that allows significant hydraulic connection with a shallower aquifer is considered to be "leaky". Aquifer tests at Well COI-6, where shallow aquifer water levels were lowered by up to 1 foot, are consistent with the existence of a leaky aquitard separating the aquifer at well intake level from the shallow aquifer near the surface.

Robert Anderson, in his technical analysis of the original and proposed new points of withdrawal (Golder, 2002), states that moving the point of withdrawal to Well COI-6 will result in less impact to the environment based on his analysis of well completion depth, recharge area, distance of each point of withdrawal from Issaquah Creek, and the thickness of the aquitard at the two well locations. Anderson's analysis however assumes that the city would only use Well COI-6 for summer peaking requirements. The applicant has not however requested a reduction in the period of use for this water right and therefore Ecology must evaluate effects on stream flows consistent with the well operating continuously as currently authorized under the certificate. In addition Anderson does not take into account the direct effect that pumping will have on surface water bodies with the well's zone of influence.

Anderson (Golder, 2002) estimates that at the original point of withdrawal (Wells COI-3A/3), the contribution to well production from the shallow, unconfined aquifer would be greater than 90% after only 10 days of pumping. He also states that groundwater computer model analysis (Golder, 2000b) indicates that after 100 days of pumping at COI-6, the contribution from leakage would be less than 50% of pumping volume. The model also indicates that if the well is pumped continuously the contribution through leakage would reach 85% of pumping volume. At either location, the contribution from leakage would include water from the shallow aquifer and a component from stream flows, whose magnitude would largely be dependent on the distance to the surface water body and the direction and velocity of flow in the aquifer.

The difference in leakage between the two locations can be explained by the relative thicknesses of low permeability material present at both locations. At Well COI-6 a sandy silt aquitard overlying the completion zone is some 140 feet thick, while at COI-3A/3 the low permeability material overlying the completion zone is only a few feet thick. It is not certain whether the silt layer present at both locations is continuous. The leakage suggests that it is not. Well 3A/3 also has a 20 foot thick glacial till layer near the surface. This till layer however is discontinuous in the valley and does not form an effective aquitard.

Well COI-3A/3 is nearly 10 times the distance from either the East Fork or mainstem of Issaquah Creek than is Well COI-6. The effect of withdrawals from a well in hydraulic connection to a stream drops off rapidly with distance of the well from the stream. It is likely therefore that the contribution of stream flows to pumping volume would be greater at the proposed new point of withdrawal than from Wells COI-3A/3 due to the difference in distance from the streams. The presence of the thicker aquitard at COI-6 would likely attenuate the effect in the short term, but would, on a long term basis, result in a greater impact on the shallow aquifer and ultimately on stream flows in the immediate area of the well.

Anderson points out that the recharge area of the original point of withdrawal is limited largely to Tradition Lake Plateau and that the recharge area for Well COI-6 includes a much larger area, with contributions from the upper Issaquah Creek valley, the East Fork/Issaquah Highlands area in addition to the Tradition Lake Plateau. While the greater diversity in recharge sources suggests that withdrawals at Well COI-6 would cause less overall stress on the aquifer, they do not lessen the potential to cause a greater impact on stream flows in the zone of influence of the proposed new point of withdrawal, where pumping stress on the shallow aquifer and streams would be greatest.

A change in point of withdrawal, as proposed, would result in a negative impact to the flow of water in a salmon spawning and rearing stream. The negative impact to a stream closed by rule, with no water available is detrimental to the interest of the people of Washington.

## DISCUSSION

The proposed changes in point of withdrawal for G1-22733C and G1-22734C do not conform to all the requirements for approval of an application for change or amendment to a groundwater right under applicable statutes RCW 90.44.100 and RCW 90.03.290.

This investigation finds that approval of the proposed change threatens to prove detrimental to the public interest, due to the impact that pumping at the proposed point of withdrawal would have on stream flows, and hence on salmon habitat in the East Fork of Issaquah Creek and the mainstem of Issaquah Creek, both of which are critical salmon habitat streams and closed to appropriation under Chapter 173-508 WAC. Ecology's concerns are supported by the Department of Fish and Wildlife whose objection to this application is based on the degree of hydraulic continuity of the proposed new point of withdrawal.

Under Ecology authority in the consideration of changes or amendments to groundwater rights, if approval threatens to prove detrimental to the public interest, Ecology has a duty to reject the application. It is also noted in this investigation that a denial of this application does not prevent the applicant from exercising the right by drilling a replacement well at the original published well location.

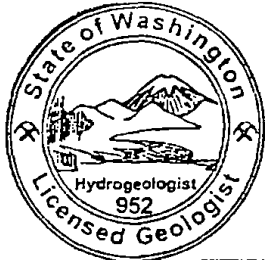
**RECOMMENDATIONS**

I recommend the proposed changes to groundwater certificate G1-22734C be denied and the application for change be rejected pursuant to the requirements of RCW 90.44.100 and RCW 90.03.290.

**CONCLUSIONS**

In accordance with chapter 90.44 RCW, and based on the findings of this report, I conclude that the proposed new point of withdrawal for groundwater certificate G1-22734C cannot be authorized.

REPORT BY: Douglas H. Wood DATE: 6/5/2003  
Douglas H. Wood, MS, LHG  
Licensed Hydrogeologist (WA #952)



DOUGLAS H. WOOD

PROGRESS SHEET - APPLICATION FOR CHANGE

2279364

CERTIFICATE NO. G1-22734C

NAME: City of Issaquah  
P.O. Box 1307  
Issaquah, WA 98027

**DENIED**

Appurtenant to Water Right Certificate No. G1-22734C

PURPOSE OF APPLICATION to change place and point of withdrawal

Application originally received 4/30/97 Fee Paid \$10 4/30/97

Returned for completion or correction \_\_\_\_\_

returned \_\_\_\_\_

PUBLICATION: Ok'd by D.D. Date \_\_\_\_\_ Notice Sent 6/7/2002

Protests \_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_ by \_\_\_\_\_

Affidavit received and checked D.D. Time Expires 8/16/02

EXAMINATION: Made 6/5/2003 by D.D.

CERTIFICATE: Ok'd for issue by \_\_\_\_\_ date \_\_\_\_\_

Statement of fee mailed \_\_\_\_\_ Amount \$5 \_\_\_\_\_

Fee received \_\_\_\_\_

Certificate of Change Issued \_\_\_\_\_ No. \_\_\_\_\_

**Gilman Well 4**

**Certificate G1-24809CWRIS**





APPLICATION FOR PERMIT TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON. I have examined this application and find that it is:  not an "action".

SURFACE WATER

GROUND WATER

*3/20/86* *M. Justice*  
 categorically exempt.

\$10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION. SIGNATURE  
(GRAY BOXES FOR OFFICE USE ONLY)

APPLICATION NO. <b>G124809</b>	WRIA <b>8</b>	COUNTY <b>King</b>	PRIORITY DATE <b>3/10/86</b>	TIME	ACCEPTED <input checked="" type="checkbox"/>
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APPLICANT'S NAME <b>CITY OF ISSAQUAH</b>			BUSINESS TEL. <b>391-1004</b>		
ADDRESS (STREET) <b>130 E. SUNSET WAY</b>			(CITY) <b>ISSAQUAH</b>		(STATE) <b>WASHINGTON</b>
			(ZIP CODE) <b>98027-1307</b>		HOME TEL.

DATE & PLACE OF INCORPORATION IF APPLICANT IS A CORPORATION

1. SOURCE OF SUPPLY

IF SURFACE WATER SOURCE (NAME OF STREAM, LAKE, SPRING, ETC.) (IF UNNAMED, SO STATE) TRIBUTARY	IF GROUND WATER SOURCE (WELL, TUNNEL, INFILTRATION TRENCH, ETC.) <b>WELL</b> SIZE AND DEPTH <b>16-INCH CASING TO 110 FEET</b>
---	---

2. USE  
USE TO WHICH WATER IS TO BE APPLIED (DOMESTIC SUPPLY, IRRIGATION, MINING, MANUFACTURING, ETC.)  
**PUBLIC WATER SUPPLY**

ENTER QUANTITY OF WATER REQUESTED USING UNITS OF: <b>Municipal</b>	CUBIC FEET PER SECOND ..... CFS	OR	GALLONS PER MINUTE <b>250 GPM</b>	ACRE FEET PER YEAR <b>400</b>
TIMES DURING YEAR WATER WILL BE REQUIRED <b>ALL YEAR</b>				

RECEIVED  
MAR 10 1986

IF IRRIGATION, NUMBER OF ACRES <b>N/A</b>	IF DOMESTIC USE, NUMBER OF UNITS BY TYPE, E.G. 1-HOME, 1-MOBILE HOME, 2-CAMPSITES, ETC. <b>N/A</b>	IF MUNICIPAL USE, ESTIMATED POPULATION <b>8000</b>
DATE PROJECT WAS OR WILL BE STARTED <b>DECEMBER, 1984</b>	DATE PROJECT WAS OR WILL BE COMPLETED <b>SEPTEMBER, 1985</b>	DEPARTMENT OF ECOLOGY <b>NORTHWEST REGION</b>

3. LOCATION OF POINT OF DIVERSION/WITHDRAWAL

3A. IF IN PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)	SECTION	TOWN	RANGE	ALSO, PLEASE ENCLOSE A COPY OF THE PLAT AND MARK THE POINT(S) OF WITHDRAWAL OR DIVERSION
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3B. IF NOT IN PLATTED PROPERTY

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER.

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.  
**APPROXIMATELY 1900 FEET WEST AND 500 FEET SOUTH OF NE CORNER OF SECTION 28**

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) <b>(TAX LOT 287)NW<math>\frac{1}{2}</math> of NE<math>\frac{1}{4}</math></b>	SECTION <b>28</b>	TOWNSHIP N. <b>24N</b>	RANGE (E. OR W.) W.M. <b>6E</b>	COUNTY <b>KING</b>
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4. DO YOU OWN THE LAND ON WHICH THIS SOURCE IS LOCATED. IF NOT, INSERT NAME & ADDRESS OF OWNER  
**PURCHASE OPTION EXERCISED OCTOBER, 1985**

5. LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED  
ATTACH A COPY OF THE LEGAL DESCRIPTION OF THE PROPERTY (ON WHICH THE WATER WILL BE USED) TAKEN FROM A REAL ESTATE CONTRACT, PROPERTY DEED OR TITLE INSURANCE POLICY, OR, COPY CAREFULLY IN THE SPACE BELOW.

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

ARE THERE ANY EXISTING WATER RIGHTS RELATED TO THE LAND ON WHICH THE WATER IS TO BE USED (INCLUDING WATER PROVIDED BY IRRIGATION DISTRICTS OR DITCH COMPANIES.)  YES  NO

IF YES, FROM WHAT SOURCE (i.e. SURFACE OR GROUND WATER) AND UNDER WHAT AUTHORITY  
Ground water source. The City of Issaquah owns and operates 3 wells at other sites within the City (permits G1-22733P, G1-2273P, G1-22733C) and one other at this site (APPG124633)

6. DESCRIPTION OF SYSTEM PROPOSED OR INSTALLED

(FOR EXAMPLE: SIZE OF PUMP, CAPACITY OF PUMP, PUMP MOTOR HORSE POWER, PIPE DIAMETER, NUMBER OF SPRINKLERS, ETC.)  
The production at this site will be from two wells each producing from a distinct aquifer. The shallower well will produce from a confined aquifer 75 to 100 feet below land surface using a submersible pump. A maximum of 250 gpm will be produced. The deeper well produces up to 1000 gpm from a confined aquifer 270 to 450 feet below land surface. A 10 - 12-inch turbine pump will be set to 220 feet.

REMARKS

7.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IF 10 ACRE-FEET OR MORE OF WATER IS TO BE STORED AND/OR IF THE WATER DEPTH WILL BE 10 FEET OR MORE AT THE DEEPEST POINT, A STORAGE PERMIT MUST BE FILED IN ADDITION TO THIS PERMIT. THESE FORMS CAN BE SECURED, TOGETHER WITH INSTRUCTIONS, FROM THE DEPARTMENT OF ECOLOGY.

SIGNATURES

*A. Elserst Jr.*, Director of Public Works  
APPLICANT'S SIGNATURE

*R. Almy Mayor*  
LEGAL LANDOWNER'S SIGNATURE

130 E. Sunset Way, P.O. B 1307 Issaquah, Wa 98037  
LEGAL LANDOWNER'S ADDRESS

FOR OFFICE USE ONLY

STATE OF WASHINGTON }  
DEPARTMENT OF ECOLOGY } SS.

This is to certify that I have examined this application together with the accompanying maps and data, and am returning it for correction or completion as follows: .....

.....  
In order to retain its priority date, this application must be returned to the Department of Ecology, with corrections, on or before....., 19.....

Witness my hand this.....day of....., 19.....

.....  
Department of Ecology



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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
March 10, 1986	G1-24809		

NAME			
City of Issaquah			
ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
130 East Sunset Way	Issaquah	Washington	98027-1307

PUBLIC WATERS TO BE APPROPRIATED

SOURCE		
Well		
TRIBUTARY OF (IF SURFACE WATERS)		
MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
	250	200
QUANTITY, TYPE OF USE, PERIOD OF USE		
Municipal supply - continuously		

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
Approximately 1900 feet west and 500 feet south of northeast corner of Section 28.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
<del>NW 1/4</del>	28	24	6E	8	King

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

---

**DESCRIPTION OF PROPOSED WORKS**

---

Test/production well located approximately 65' east of Issaquah Creek. Well is 20" casing, installed to 54' and 16' well to 200 feet.

---

**DEVELOPMENT SCHEDULE**

---

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	6 mos. from permit issuance	1 year from permit issuance

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**REPORT**

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**Background:**

This application was filed on March 10, 1986, requesting continuous withdrawal of ground waters for backup municipal supply. The legal notice was published on June 25, 1986, and July 2, 1986, in The Issaquah Press, a legal newspaper in Issaquah, Washington. The 30-day protest period prescribed by law has expired and no protests or objections were received. This application was identified as categorically exempt under the State Environmental Protection Act.

**Investigation:**

This writer and Roy Bishop have undertaken an office investigation pertinent to the application. The location of the well is near the I-90 crossing of Issaquah Creek, in the rapidly developing western side of the City of Issaquah. Issaquah Creek is closed to surface water diversions and this investigation is concerned that hydraulic continuity between the well and the creek should not occur. The ground water geology of the valley basin is relatively productive and is expected to be more fully utilized in the future. A ground water management program, designated under Chapter 173-100 WAC, has been initiated in this area, although it should not materially affect whether this permit should issue.

The site was visited on October 22, 1986, and the shallow production well was located as stated on the application, approximately 65 feet east of Issaquah Creek.

The City of Issaquah began development of production wells in this location in 1984. Exploration of the shallow well produced only modest supplies and the City of Issaquah commenced exploration of deeper aquifer sources. The permit requested herein is for the shallow production well. Permit #G1-24633 for the deeper production well was issued on April 15, 1986. Development of both wells is fully documented in "City of Issaquah 1984/1985 Drilling Program" by Robinson & Noble, Inc. (Tacoma, Washington).

The shallow well was drilled to 200 feet, but subsequently drawn back to 112 feet below land surface. Twenty-five feet of screen exposes the well to an orange-brown sand and gravel layer lying between 75 and 104 feet below land surface.

The shallow well was tested for a 24-hour period at an average discharge of 240 gpm. The pumping water level at the conclusion of the test was 57 feet below land surface which is 51.5 feet below the pretest static water level of 5.5 feet. The water level was nearly stable after the first eight hours of pumping at 250 gpm. Recovery data agrees with the drawdown data and indicates a regional average aquifer transmissivity of approximately 25,000 gpd/ft.

Water District 82 has wells approximately 2,000 feet east of the site. These were developed for 3,200 gpm under Permit #G1-00289P issued on January 20, 1972 and December 12, 1972. No drawdown interference attributable to the pumping test was recorded at Water District 82 wells, as observed by J.R. Carr and Associates.

The hydrogeology of the area begins with 38 feet of silt and clay and 40 feet of semi-permeable silt and fine sand. These units overlie the "shallow aquifer". Another silt and clay sequence underlies the shallow aquifer and effectively isolates it from the deeper aquifer. Hydraulic continuity is not identified at this site. The Robinson & Noble report states that low permeability surface material (silt and clay) tends to (at least locally) isolate surface water systems from the shallow aquifer.

**Conclusion:**

In accordance with Section 90.03 and 90.44 RCW, I find that there is water available for appropriation from the source in question and that the appropriation as recommended above will not impair existing rights or be detrimental to the public welfare. Therefore, permit should issue subject to existing rights and indicated provisions.

Recommendation:

I recommend that this application for continuous municipal supply be approved for the requested 250 gpm. The expected usage of the well will be for approximately 12 hours daily throughout the year. Therefore, the annual withdrawal shall not exceed 200 acre-feet/year.

The amount of water granted is a maximum limit that shall not be exceeded and the water user shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

A certificate of water right will not be issued until a final investigation is made.

REPORT BY:

Alvin S. Salomon

DATE:

2/2/67

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**PERMIT**

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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE March 10, 1986	APPLICATION NUMBER G1-24809	PERMIT NUMBER G1-24809D	CERTIFICATE NUMBER
---------------------------------	--------------------------------	----------------------------	--------------------

NAME City of Issaquah			
ADDRESS (STREET) 130 East Sunset Way	P.O. Box 1307	(CITY) Issaquah	(STATE) Washington
			(ZIP CODE) 98027-1307

The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE Well		
TRIBUTARY OF (IF SURFACE WATERS)		
MAXIMUM CUBIC FEET PER SECOND ---	MAXIMUM GALLONS PER MINUTE 250	MAXIMUM ACRE-FEET PER YEAR 200
QUANTITY, TYPE OF USE, PERIOD OF USE Municipal supply - continuously		

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL Approximately 1900 feet west and 500 feet south of northeast corner of Section 28.
--

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NONE	SECTION 28	TOWNSHIP N. 24	RANGE. (E. OR W.) W.M. 6E	W.R.I.A. 8	COUNTY King
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**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

DESCRIPTION OF PROPOSED WORKS

Test/production well located approximately 65' east of Issaquah Creek. Well is 20" casing, installed to 54' and 16' well to 200 feet.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: December 15, 1987	WATER PUT TO FULL USE BY THIS DATE: June 15, 1988
--	---	--

PROVISIONS

The amount of water granted is a maximum limit that shall not be exceeded and the water users shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

A certificate of water right will not be issued until investigation is made.


*This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.*

Given under my hand and the seal of this office at Redmond, Washington, this 15 day of June, 1987.

ENGINEERING DATA

OR 

Department of Ecology

by 

Nancy Ellison, Regional Manager

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

CERTIFICATE OF WATER RIGHT

- 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 263, Laws of Washington for 1946, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
March 10, 1986	G1-24809	G1-24809P	G1-24809C

NAME			
City of Issaquah			
ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
Post Office Box 1307	Issaquah	Washington	98027-1307

*This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown, but is limited to an amount actually beneficially used.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE		
Well		
TRIBUTARY OF (IF SURFACE WATERS)		
MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
--	250	200
QUANTITY, TYPE OF USE, PERIOD OF USE		
Municipal supply - continuously		

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL  
Approximately 1900 feet west and 500 feet south of northeast corner of Section 28.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
NWANE <del>A</del>	28	24	6E	8	King

**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

PROVISIONS

The amount of water granted is a maximum limit that shall not be exceeded and the water users shall be entitled only to that amount of water within the specified limit that is beneficially used and required.

*The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.*

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond Washington, this 15th day of September 19 89

Department of Ecology

ENGINEERING BAT

OK



by

*Herman H. Huggins*

Herman H. Huggins, Section Supervisor Water Resources

FOR COUNTY USE ONLY

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

COMPUTER INPUT  
 APPLICATION  
 PERMIT  
 CERTIFICATE  
 OTHER

PROGRESS SHEET

SURFACE WATER  GROUND WATER

NAME <i>City of Issaquah</i>		TELEPHONE NO. <i>391-1004</i>	
ADDRESS <i>P.O. Box 1307</i>		(CITY) <i>Issaquah</i>	(STATE) <i>Washington</i>
ASSIGNED TO		TELEPHONE NO.	DATE ASSIGNED
ADDRESS <i>130 E. Sunset Way</i>		(CITY)	(STATE) (ZIP CODE) <i>98027-1307</i>
APPLICATION NO. <i>C-124809</i>	PERMIT NO. <i>C-124809P</i>	CERTIFICATION NO. <i>C-124809C</i>	
DATE AMENDED	DATE CANCELLED	W.R.I.A.	
<b>APPLICATION</b>			
DATE APPLICATION RECEIVED <i>March 10, 1986</i>	INITIAL \$10.00 FEE RECEIVED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	DATE FEE RECEIVED <i>March 10, 1986</i>	
STATEMENT OF ADDITIONAL EXAMINATION FEE \$	DATE SENT	DATE RECEIVED	
DATE RETURNED FOR COMPLETION OR CORRECTION	DATE RECEIVED		
<b>TEMPORARY PERMIT</b>			
APPROVED BY	DATE APPROVED		DATE ISSUED
<b>PUBLICATION</b>			
APPROVED BY	DATE APPROVED	DATE NOTICE SENT <i>4-30-86</i>	
PROTESTED BY AND DATE			
DATE AFFIDAVIT RECEIVED <i>8/14/86</i>	CHECKED BY <i>XX</i>	TIME EXPIRED <i>8/2</i>	DATE AMENDED NOTICE SENT
DATE AFFIDAVIT RECEIVED	TIME EXPIRED		
<b>DEPARTMENT OF GAME AND FISHERIES REPORT</b>			
APPROVED	PROVISO	PROTEST	
<b>EXAMINATION</b>			
DATE EXAMINATION MADE	MADE BY	DATE REPORT OF EXAM. WRITTEN	WRITTEN BY
DATE PERMIT FEE REQUESTED <i>2-5-87</i>	AMOUNT DUE	DATE RECEIVED <i>5/20/87</i>	CHECKED BY <i>OK FOR PERMIT</i>
<b>PERMIT</b>			
PERMIT APPROVED BY	DATE APPROVED	PERMIT NO. <i>C-124809P</i>	DATE ISSUED <i>6-15-87</i>
<b>BEGINNING OF CONSTRUCTION</b>			
DATE NOTICE SENT	DATE FILED	EXTENSION FEE	
EXTENDED TO		EXTENDED TO	
<b>WELL DRILLER'S AND/OR CONSTRUCTION REPORT</b>			
DATE SENT	DATE FILED		
<b>COMPLETION OF CONSTRUCTION</b>			
DATE NOTICE SENT <i>6-15-87</i>	DATE FILED <i>4-26-89</i>	EXTENSION FEE <i>\$5.00</i>	
EXTENDED TO <i>6/15/88</i>	EXTENDED TO		
<b>PROOF OF APPROPRIATION</b>			
DATE SENT <i>4-28-89</i>	DATE FILED <i>8-10-87</i>	EXTENSION FEE	EXTENDED TO
DATE CERTIFICATE FEE REQUESTED	AMOUNT DUE	DATE RECEIVED <i>8-10-89</i>	DATE APPROVED FOR CERTIFICATE <i>8-23-89</i>
APPROVED BY <i>[Signature]</i>			
<b>CERTIFICATION</b>			
PROOF EXAM. REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO	CERTIFICATE NUMBER <i>C-124809C</i>	DATE ISSUED	
REMARKS			



**Gilman Well 5**

**Certificate G1-24633CWRIS**





APPLICATION FOR PERMIT  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

SURFACE WATER  GROUND WATER

\$10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION  
(GRAY BOXES FOR OFFICE USE ONLY)

APPLICATION NO. <b>C124633</b>	W.R.T.A. <b>8</b>	COUNTY <b>King</b>	PRIORITY DATE <b>4-2-85</b>	TIME	ACCEPTED <b>m</b>
APPLICANT'S NAME - PLEASE PRINT <b>City of Issaquah</b>				BUSINESS TEL <b>391-1004</b>	HOME TEL <b>392-7595</b>
ADDRESS (STREET) (P.O. Box 1307)		(CITY)	(STATE)	(ZIP CODE)	
<b>130 E. Sunset Way</b>		<b>Issaquah</b>	<b>WA.</b>	<b>98027-1307</b>	
DATE & PLACE OF INCORPORATION IF APPLICANT IS A CORPORATION					

1. SOURCE OF SUPPLY

IF SURFACE WATER	IF GROUND WATER
SOURCE (NAME OF STREAM, LAKE, SPRING, ETC.) (IF UNNAMED, SO STATE)	SOURCE (WELL, TUNNEL, INFILTRATION TRENCH, ETC.)
	<b>Well</b>
TRIBUTARY	SIZE AND DEPTH <b>16" casing to 200' depth and 16" casing to 450' depth</b>
	<i>Per County Ord will send in another application for shallower well (Rm)</i>

2. USE

USE TO WHICH WATER IS TO BE APPLIED (DOMESTIC SUPPLY, IRRIGATION, MINING, MANUFACTURING, ETC.)

**Public water supply**

ENTER QUANTITY OF WATER REQUESTED USING UNITS OF:	CUBIC FEET PER SECOND .....CFS	OR	GALLONS PER MINUTE <b>2500</b> .....GPM	ACRE FEET PER YEAR <b>3000</b>
<i>3000 4-2-85 (Rm)</i>				
TIMES DURING YEAR WATER WILL BE REQUIRED <b>Year around</b>				
IF IRRIGATION, NUMBER OF ACRES	IF DOMESTIC USE, NUMBER OF UNITS BY TYPE, E.G. 1-HOME, 1-MOBILE HOME, 2-CAMPSITES, ETC.	IF MUNICIPAL USE, ESTIMATED POPULATION 20 YEARS FROM TODAY <b>8000</b>		
DATE PROJECT WAS OR WILL BE STARTED <b>December 1984</b>	DATE PROJECT WAS OR WILL BE COMPLETED <b>July 1985</b>			

3. LOCATION OF POINT OF DIVERSION/WITHDRAWAL

3A. IF IN PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)	SECTION	TOWN	RANGE	ALSO, PLEASE ENCLOSE A COPY OF THE PLAT AND MARK THE POINT(S) OF WITHDRAWAL OR DIVERSION

3B. IF NOT IN PLATTED PROPERTY

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION. SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER.

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

**375' south and 600 ft. east of the N.W. corner of Section 28-24-RE**

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE (E. OR W.) WM	COUNTY
<b>Tax Lot #287</b>	<b>28</b>	<b>24</b>	<b>6E</b>	<b>King</b>

*NW 1/4 NE 1/4*

4. DO YOU OWN THE LAND ON WHICH THIS SOURCE IS LOCATED. IF NOT, INSERT NAME & ADDRESS OF OWNER

**Robert W. & Lois H. Catterall, 160 N.W. Gilman Blvd., Issaquah, WA. 98027**

5. LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

ATTACH A COPY OF THE LEGAL DESCRIPTION OF THE PROPERTY (ON WHICH THE WATER WILL BE USED) TAKEN FROM A REAL ESTATE CONTRACT, PROPERTY DEED OR TITLE INSURANCE POLICY. OR, COPY CAREFULLY IN THE SPACE BELOW.

The water will be used for public use within the City limits of the City of Issaquah and within the portion of unincorporated King County totally enclosed within the City, known as the Issaquah County Island.

Option for outright purchase

ARE THERE ANY EXISTING WATER RIGHTS RELATED TO THE LAND ON WHICH THE WATER IS TO BE USED (INCLUDING WATER PROVIDED BY IRRIGATION DISTRICTS OR DITCH COMPANIES.)

YES  NO

IF YES, FROM WHAT SOURCE (I.E. SURFACE OR GROUND WATER) AND UNDER WHAT AUTHORITY

Ground water source, the City of Issaquah presently owns and operates three wells in the City.

Permit Numbers: G1 22733P, G1 2273P, G1 2273 3C

6. DESCRIPTION OF SYSTEM PROPOSED OR INSTALLED

(FOR EXAMPLE: SIZE OF PUMP, CAPACITY OF PUMP, PUMP MOTOR HORSE POWER, PIPE DIAMETER, NUMBER OF SPRINKLERS, ETC.)

The proposed system will be two wells side by side. The first well is drilled to 200 ft. This well will have a submersible pump with a 30 HP motor. A maximum of 500 GPM will be drawn from this well. The second well will be a 16" casing down to 450'. We will be installing a turbine pump with either a 10" or 12" column to a depth of 200'. The horsepower will be 200 to 250. The maximum withdrawal from this well will be 2000 G.P.M.

Talked to Gary Sund 4-4-85 - two different aquifers he asked that we go with the deeper well on this for 2000 GPM and he would file another application for the shallower well

REMARKS

7.

*Kon*

IF 10 ACRE-FEET OR MORE OF WATER IS TO BE STORED AND/OR IF THE WATER DEPTH WILL BE 10 FEET OR MORE AT THE DEEPEST POINT, A STORAGE PERMIT MUST BE FILED IN ADDITION TO THIS PERMIT. THESE FORMS CAN BE SECURED, TOGETHER WITH INSTRUCTIONS, FROM THE DEPARTMENT OF ECOLOGY.

SIGNATURES

*Gary M. Sund*  
Gary M. Sund, City Engineer  
APPLICANT'S SIGNATURE  
*Robert W. Catterall* *Lois H. Catterall*  
LEGAL LANDOWNER'S SIGNATURE

Robert W. & Lois H. Catterall  
LEGAL LANDOWNERS NAME  
(PLEASE PRINT)

160 N.W. Gilman Blvd., Issaquah, WA. 98027  
LEGAL LANDOWNER'S ADDRESS

FOR OFFICE USE ONLY

STATE OF WASHINGTON }  
DEPARTMENT OF ECOLOGY } SS.

This is to certify that I have examined this application together with the accompanying maps and data, and am returning it for correction or completion as follows: .....

In order to retain its priority date, this application must be returned to the Department of Ecology, with corrections, on or before..... 19.....

Witness my hand this..... day of..... 19.....

Department of Ecology

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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE April 2, 1985	APPLICATION NUMBER G1-24633	PERMIT NUMBER	CERTIFICATE NUMBER
--------------------------------	--------------------------------	---------------	--------------------

NAME City of Issaquah			
ADDRESS (STREET) 130 E. Sunset Way (P.O. Box 1307)	(CITY) Issaquah	(STATE) Washington	(ZIP CODE) 98027-1307

PUBLIC WATERS TO BE APPROPRIATED

SOURCE Well 16" X 412'	TRIBUTARY OF (IF SURFACE WATERS)	
MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 1000	MAXIMUM ACRE-FEET PER YEAR 1600*
QUANTITY, TYPE OF USE, PERIOD OF USE Municipal water supply - continuously		

\*Supplemental to existing rights

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL 375 feet south and 600 feet east of the northwest corner of Section 28
--

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NW 1/4	SECTION 28	TOWNSHIP N. 24	RANGE (E. OR W.) W.M. 6 E	W.B.I.A. 8	COUNTY King
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by City of Issaquah

DESCRIPTION OF PROPOSED WORKS

Well 16" X 412'  
200 - 250 HP pump

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	1 year from permit issuance	2 years from permit issuance

REPORT

Background:

On April 2, 1985, the City of Issaquah submitted this application requesting 2,000 gallons per minute from a well for the purpose of municipal water supply.

Notice was published in the Issaquah Press on April 24 and May 1, 1985. No protests were received.

Investigation:

Evaluation for this application consists of review of office records and conversations with the applicant and the applicant's groundwater geologists firm of Robinson and Noble, Inc.

The city currently holds the following water rights:

<u>Cert. No.</u>	<u>Source</u>	<u>Inst. Q.</u>	<u>Annual Quantity</u>
G.W. 6343	Well #1	630 GPM	1,000
G.W. 7031	Well #2	1200 GPM	1,600
G1-22733C	Well #3	300 GPM	119) Supplemental to existing
G1-22734C	Well #4	500 GPM	645) certificates - total annual withdrawal not to exceed 2600 acre-feet.

The City selected a site south of Interstate 90, north of Gilman Road, and east of Issaquah Creek for two new wells to supplement their water supply.

When the two wells were constructed and tested, it was found that each was tapping a different aquifer. A second application is being prepared for the shallow, less productive well. This application represents the deep large production well.

This well was drilled in June 1985 to a completed depth of 412 feet deep. In September, the well was tested at a pumping rate of 1000 which resulted in a drawdown of 128 feet after 24 hours. Prior to starting the pump test, the static water level was recorded at 7.5 feet below the top of the well. Three hours after the pump test, the water level in the well returned to pre-test levels.

Due to the proximity of the large production well to Issaquah Creek which is closed to appropriation of water, significant hydraulic continuity must be considered. However, based on Robinson and Noble's report data, the evidence of a clay and silt aquatard above the water zone of this well thereby isolating it from waters connected with Issaquah Creek, there would be no significant continuity between the well and the creek flows.

The report prepared by Robinson and Noble based on the test results stated that data clearly showed that the well was tapping from an aquifer isolated from above by a silt and clay aquatard.

The firm of Robinson and Noble have recommended that the well be designed to pump at a maximum rate of 1000 gallons per minute. Based on their testing and recommendation, the quantity for this application should reflect the designed capacity of the well for a safe sustained yield.

Since the previous rights held by the City total 2,600 acre-feet per year which is adequate to service a population in excess of 10,000, this application would be considered totally supplemental to the existing rights.

Conclusion:

In accordance with Section 90.03 and 90.44 RCW, I find that there is water available for appropriation from the source in question and that the appropriation as recommended above will not impair existing rights or be detrimental to the public welfare. Therefore, permit should issue subject to existing rights and indicated provisions.

Recommendation:

A permit should issue for 1000 gallons per minute, 1600 acre-feet per year, supplemental to existing rights from a well for the purpose of municipal supply.

*on Permit*

This is a supplemental right to primary ground water certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed 2600 acre-feet per year previously approved on primary rights.

A certificate of water right will not be issued until a final investigation is made.

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

REPORT BY:

Janet Jorg

DATE:

2/3/86

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**PERMIT**

**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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE <b>April 2, 1985</b>	APPLICATION NUMBER <b>G1-24633</b>	PERMIT NUMBER <b>G1-24633P</b>	CERTIFICATE NUMBER
---------------------------------------	---------------------------------------	-----------------------------------	--------------------

NAME

**City of Issaquah**

ADDRESS (STREET) <b>130 E. Sunset Way (P.O. Box 1307)</b>	(CITY) <b>Issaquah</b>	(STATE) <b>Washington</b>	(ZIP CODE) <b>98027-1307</b>
--	---------------------------	------------------------------	---------------------------------

*The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.*

**PUBLIC WATER TO BE APPROPRIATED**

SOURCE

**Well 16" X 412'**

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE <b>1000</b>	MAXIMUM ACRE-FEET PER YEAR <b>1600*</b>
-------------------------------	---	--

QUANTITY, TYPE OF USE, PERIOD OF USE

**Municipal water supply - continuously**

**\*Supplemental to existing rights**

**LOCATION OF DIVERSION/WITHDRAWAL**

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

**375 feet south and 600 feet east of the northwest corner of Section 28**

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) <b>NW 1/4</b>	SECTION <b>28</b>	TOWNSHIP N. <b>24</b>	RANGE, (E. OR W.) W.M. <b>6 E</b>	W.R.I.A. <b>8</b>	COUNTY <b>King</b>
--	----------------------	--------------------------	--------------------------------------	----------------------	-----------------------

**RECORDED PLATTED PROPERTY**

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
-----	-------	------------------------------------

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**

**Area served by City of Issaquah**



DESCRIPTION OF PROPOSED WORKS

Well 16" X 412'  
200 - 250 HP pump

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: April 15, 1987 <sup>88</sup>	WATER PUT TO FULL USE BY THIS DATE: April 15, 1988 <sup>89</sup>
--	--	---

PROVISIONS

This is a supplemental right to primary ground water certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed 2600 acre-feet per year previously approved on primary rights.

A certificate of water right will not be issued until a final investigation is made.

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

*This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.*

Given under my hand and the seal of this office at Redmond, Washington, this 15 day of April, 19 86.

Department of Ecology

ENGINEERING DATA

OK *JJ*

by *Joan K. Thomas*  
Joan K. Thomas, Regional Manager

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

CERTIFICATE OF WATER RIGHT

- 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 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
April 2, 1985	G1-24633	G1-24633P	G1-24633C

NAME			
City of Issaquah			
ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
130 E. Sunset Way (P.O. Box 1307)	Issaquah	Washington	98027-1307

*This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown, but is limited to an amount actually beneficially used.*

PUBLIC WATER TO BE APPROPRIATED

SOURCE
Well 16" X 412'
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
	1000	1600*

QUANTITY, TYPE OF USE, PERIOD OF USE  
Municipal water supply - continuously

\*Supplemental to existing rights

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL  
375 feet south and 600 feet east of the northwest corner of Section 28

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
NW 1/4	28	24	6 E	8	King

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by City of Issaquah

PROVISIONS

This is a supplemental right to primary ground water certificates 6343 and 7031. Total annual withdrawals from all sources shall not exceed 2600 acre-feet per year previously approved on primary rights.

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

An approved measuring device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through WAC 508-64-040 (Installation, operation and maintenance requirements attached hereto).

*The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.*

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at Redmond Washington, this 15th day of February 19 90

Department of Ecology

ENGINEER AND DATA

OK



by *Herman H. Huggins*  
Herman H. Huggins, Section Supervisor Water Resources

FOR COUNTY USE ONLY

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

COMPUTER INPUT

- APPLICATION  
 PERMIT  
 CERTIFICATE  
 OTHER

PROGRESS SHEET

SURFACE WATER  GROUND WATER

NAME <b>City of Issaquah</b>		TELEPHONE NO. <b>391-1004</b>	
ADDRESS <b>130 E. Sunset Way (P.O. Box 1307)</b>	(CITY) <b>Issaquah</b>	(STATE) <b>Washington</b>	(ZIP CODE) <b>98027-1307</b>
ASSIGNED TO		TELEPHONE NO.	DATE ASSIGNED
ADDRESS (CITY)		(STATE)	(ZIP CODE)
APPLICATION NO. <b>C124633</b>	PERMIT NO. <b>C124633P</b>	CERTIFICATION NO. <b>C1-04633C</b>	
DATE AMENDED	DATE CANCELLED	W.R.I.A.	
<b>APPLICATION</b>			
DATE APPLICATION RECEIVED <b>April 2, 1985</b>	INITIAL \$10.00 FEE RECEIVED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	DATE FEE RECEIVED <b>April 2, 1985</b>	
STATEMENT OF ADDITIONAL EXAMINATION FEE \$	DATE SENT	DATE RECEIVED	
DATE RETURNED FOR COMPLETION OR CORRECTION		DATE RECEIVED	
<b>TEMPORARY PERMIT</b>			
APPROVED BY		DATE ISSUED	
<b>PUBLICATION</b>			
APPROVED BY	DATE APPROVED	DATE NOTICE SENT <b>4-19-85</b>	
PROTESTED BY AND DATE			
DATE AFFIDAVIT RECEIVED <b>7-24-85</b>	CHECKED BY <b>JK</b>	TIME EXPIRED <b>6-1</b>	DATE AMENDED NOTICE SENT
DATE AFFIDAVIT RECEIVED	TIME EXPIRED		
<b>DEPARTMENT OF GAME AND FISHERIES REPORT</b>			
APPROVED	PROVISO	PROTEST	
<b>EXAMINATION</b>			
DATE EXAMINATION MADE <b>none</b>	MADE BY <b>JK</b>	DATE REPORT OF EXAM. WRITTEN <b>12-85</b>	WRITTEN BY <b>JK</b>
DATE PERMIT FEE REQUESTED <b>2-13-86</b>	AMOUNT DUE <b>20</b>	DATE RECEIVED <b>3-10-86</b>	CHECKED BY <b>JK</b>
<b>PERMIT</b>			
PERMIT APPROVED BY <b>JK</b>	DATE APPROVED <b>4-15-86</b>	PERMIT NO. <b>C124633P</b>	DATE ISSUED <b>4-15-86</b>
<b>BEGINNING OF CONSTRUCTION</b>			
DATE NOTICE SENT	DATE FILED	EXTENSION FEE	
EXTENDED TO		EXTENDED TO	
<b>WELL DRILLER'S AND/OR CONSTRUCTION REPORT</b>			
DATE SENT	DATE FILED		
<b>COMPLETION OF CONSTRUCTION</b>			
DATE NOTICE SENT <b>4-15-86</b>	DATE FILED <b>4/30/86</b>	EXTENSION FEE <b>5.00</b>	
EXTENDED TO <b>4/15/86</b>		EXTENDED TO	
<b>PROOF OF APPROPRIATION</b>			
DATE SENT <b>7.6.88</b>	DATE FILED <b>9-8-88</b>	EXTENSION FEE	EXTENDED TO
DATE CERTIFICATE FEE REQUESTED	AMOUNT DUE	DATE RECEIVED <b>9-8-89</b>	DATE APPROVED FOR CERTIFICATE <b>1-26-90</b>
APPROVED BY <b>JK</b>			
<b>CERTIFICATION</b>			
PROOF EXAM. REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CERTIFICATE NUMBER <b>C1-24633C</b>	DATE ISSUED <b>2-15-90</b>	
REMARKS			