



Water Resources Program Application for a Water Right Permit

For Ecology Use
RECEIVED
DEPARTMENT OF ECOLOGY
OCT 23 2010
WATER RESOURCES PROGRAM
N111107

SURFACE WATER GROUND WATER PERMANENT

TEMPORARY SHORT TERM DROUGHT Re-Recurring

Follow the attached instructions. Attach additional sheets as necessary.

***A NON-REFUNDABLE MINIMUM FEE OF \$50.00 MUST ACCOMPANY THIS APPLICATION.**

Section 1. APPLICANT

Applicant/Business Name: U.S. Fish and Wildlife Service, Washington Office	Phone No: 360.753.9440	Other No: 360.753.9582
Address: 510 Desmond Drive SE Suite 102		
City: Olympia	State: Washington	Zip: 98503
Email Address (optional): Yvonne_Dettlaff@fws.gov		

Contact Name (if different from above): Yvonne Dettlaff or Brad Thompson	Phone No: 360.753.9582	Other No: 360.753.9509
Relationship to Applicant: Yvonne: Fish and Wildlife Biologist or Brad: Fisheries Division Manager		
Address: See above		
City:	State:	Zip:
Email Address (optional): Yvonne_Dettlaff@fws.gov or Brad_Thompson@fws.gov		

Legal Land Owner or Part Owner Name of the Proposed Place of Use: Two potential water withdrawal sites are located along Laughing Jacob's Creek. One site is located on the East Lake Sammamish Trail that is administrated by King County Parks and Recreation, and the other site is located within the Sammamish Lake State. Robert Nunnenkamp King County Parks and Recreation	Phone No: 425.455.7010 206.263.6207	Other No:
---	---	-----------

Address : 201 South Jackson Street, Suite 700

City: Seattle	State: WA	Zip: 98104-3856
Email Address (optional): Robert.Nunnenkamp@kingcounty.gov		

Legal Land Owner or Part Owner Name of the Proposed Place of Use: Rich Benson Sammamish Lake State Park	Phone No: 425.455.7010	Other No:
---	---------------------------	-----------

Address : 2000 NW Sammamish State Park

City: Issaquah	State: WA	Zip: 98027
----------------	-----------	------------

For Ecology Use	APPLICATION NO: <u>SI-28677</u>	SEPA: <u>Exempt</u> /Not Exempt
	Fee Paid: <u>50-</u> Check No: <u>1055</u>	ECY Coding: 001-001-WR1-0285-000011
Date Returned _____	By _____	Priority Date <u>11/20/10</u> By <u>[Signature]</u> WRIA: <u>8</u>

Email Address (optional): PSSAMM@PARKS.WA.GOV

Section 2. STATEMENT OF INTENT

Briefly describe the purpose of your proposed project:

To prevent the extinction and improve the health of the native kokanee population such that it is viable and self-sustaining.

Because the Lake Sammamish kokanee (*Oncorhynchus nerka*) have declined dramatically, a comprehensive conservation strategy is needed to rebuild the remaining run. In the short term (one to five years), a supplementation program is necessary to at least sustain existing population levels. This includes maintaining the existing spatial distribution, abundance, age-structure, and genetic diversity of the Lake Sammamish kokanee population.

The short-term supplementation program involves collecting eggs from returning spawners (fish ready or nearly ready to spawn) and incubating them in a protective hatchery. Therefore, egg-to-fry survival rates will be greatly improved and hopefully help increase the adult population size. All steps of this program will be designed to mimic the natural conditions and behaviors of the population (i.e., run-timing and location, incubation temperatures, emergence timing, out-migrant timing) as closely as possible.

There are several components to the short-term Sammamish Kokanee Conservation Supplementation Project that includes monitoring, collecting, raising gametes, and then releasing kokanee fry in the Lake Sammamish watershed. The short-term supplementation project (i.e. proposed project) is scheduled from 2010 to 2015.

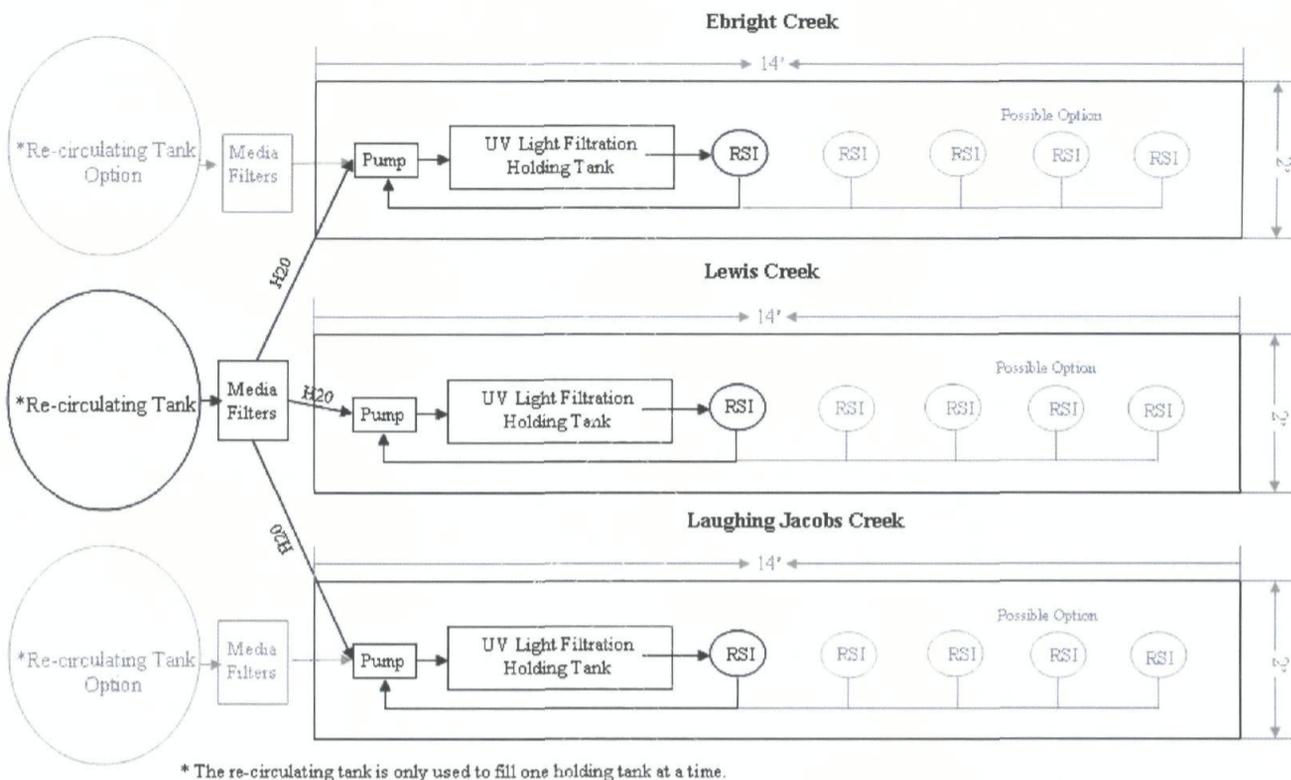
Water Withdrawal Details

Once collection opportunities are identified, volunteers, partners, or staff will use either block seines, dip nets, or if necessary, backpack electrofishing gear to collect late-run kokanee broodstock from Lake Sammamish tributaries, the Lewis, Ebright, and Laughing Jacob's creeks from November through January. Spawners (fish ready or nearly ready to spawn) will be held in small tubs or ice chests and will be immediately transported to Issaquah Creek State Fish Hatchery. Once at the Issaquah Creek Fish Hatchery, fish will either be held until ripe, or gametes (milt and eggs) will be collected. Eggs will be incubated in the Issaquah State Hatchery and/or in the Quilcene National Fish Hatchery. Once reaching the eyed-stage sometime in January and March, the eggs will be transferred to remote site incubators (RSIs) located at the Issaquah Fish Hatchery. Remote site incubators are essentially boxes that hold trays of eggs in consistent surface water flow through the box.

Since broodstock collection will occur throughout the season, and thereby having eggs of different life stages, egg collection from each stream will be incubated in one to five remote site incubators. Given the size of the supplementation program (~30,000 eggs annually), 5 gallon units, which hold 5,000-10,000 eggs per unit, are likely to be selected for this effort. Flow rates will range from 3 to 4 gallons/minute for 5 gallon RSIs.

Water for the RSI's will come from the gametes' natal creek, Lewis, Ebright, or Laughing Jacob's creek. Unfiltered natal creek water will be pumped into a 300 to 600 gallon re-circulating tank, which first directs water through media filters, then to a UV light filter, and finally into a holding tank. The holding tank could be trough, raceway, or tank. Once the water is in the holding tank, water continuously circulates to each remote site incubator, then back to the UV light filter before flowing back to the holding tank. The figure below demonstrates what the remote site incubators series might look like.

For Ecology Use	APPLICATION NO: _____ SEPA: Exempt/Not Exempt
	Fee Paid: _____ Check No: _____ ECY Coding: 001-001-WR1-0285-000011
Date Returned _____	By _____ Priority Date _____
	By _____ WRIA: _____



An example of the RSIs series.

Each of the remote site incubator (RSI) series will be refreshed from weekly to bi-weekly by re-filling with fresh water that was collected exclusively from the creek that the eggs in a given RSI series are from. For the refreshment of each RSI, an approximate 200 to 600 gallons of water will be collected to refresh the RSI systems between December and early March from each of the three creeks where broodstock was collected (Lewis, Ebright, and Laughing Jacobs creeks). Prior to being refreshed, the filtered water in the RSI systems will be drained into Issaquah Creek. Water discharge is covered under the National Pollutant Discharge Elimination System (NPDES), WAG133010.

To collect water, a specially designed hatchery truck will siphon 200 to 600 gallons from each of the creeks. Using a 1-inch diameter flex hose, creek water will be pumped into a water tank on the truck. The flex hose will be screened to minimize debris, insects, and fish from entering the hose. The portable gas powered pump will withdraw water at a rate of 10 to 30 gallons per minute. Depending on flow conditions, water may be withdrawn slowly (over two hours) to keep sufficient water in the pool or riffle. Water withdrawal would occur either on the East Lake Sammamish Trail site or the Lake Sammamish State Park site. The East Lake Sammamish Trail site is administrated by the King County Parks and Recreation, and the Lake Sammamish State Park site is administrated by Washington State Park. See attached maps for project locations. The water truck will never enter the wetted width or drive or park on a vegetated stream bank (except grasses).

Anticipated length of time to complete your project: 5 years

Water Use List all purposes for which water will be applied to a beneficial use and list quantity required for each.

Purpose(s) of Use	Rate (check one box only)		Acre-Feet per Year (AF/YR) (If known)	Period of Use (Continuously or Seasonal)
	<input type="checkbox"/> Cubic Feet per Second (CFS)	<input checked="" type="checkbox"/> Gallons per Minute (GPM)		
Collect water for a RSI series	10 to 30 gallons per minute			Seasonal from December to May. 200 to 600 gallons weekly to biweekly.
	<i>30 gpm = 0.067 cfs</i>			

For Ecology Use	APPLICATION NO: _____ SEPA: Exempt/Not Exempt
	Fee Paid: _____ Check No: _____ ECY Coding: 001-001-WR1-0285-000011
Date Returned _____	By _____ Priority Date _____
	By _____ WRIA: _____

TOTAL:	10 to 30 gallons per minute	
---------------	-----------------------------	--

Short Term/Temporary Water Use

Is this a request for a short term project (less than four months and non-recurring)? YES NO

Is this request for a temporary permit? YES NO

If yes to either question above, indicate the dates that the water will be needed:

FROM: 12/01/2010 TO: 05/30/2015

Section 3. POINT OF DIVERSION OR WITHDRAWAL

(Complete A or B, and C below)

<p>A.) If Surface Water Source</p> <p><input type="checkbox"/> Spring <input checked="" type="checkbox"/> Creek <input type="checkbox"/> River <input type="checkbox"/> Lake <input type="checkbox"/> Other: _____</p> <p>Source Name: <u>Laughing Jacob's Creek</u></p> <p>Tributary to: _____</p> <p>Number of proposed diversion points: <u>2 withdrawal sites</u></p> <p>Do you have an existing diversion? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>B.) If Ground Water Source</p> <p><input type="checkbox"/> Well(s) <input type="checkbox"/> Other: _____</p> <p>Well diameter & depth: _____</p> <p>Number of proposed points of withdrawal: _____</p> <p>Do you have an existing well? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If available, attach Water Well Report and pump test.</p> <p>Well Tag ID No. _____</p>
--	--

C.) Point of Diversion/Withdrawal – Legal Description

Parcel No.	¼	¼	Section	Township	Range	County
1624069017	SW	NW	S16	T24N	R06E	KING
Lot(s)	Block(s)		Subdivision			SEE PROVIDED MAP

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____ Feet (North/ South) and _____ feet (East/ West)

from the (NW SW NE SE _____) corner of Section _____.

47.56649N/-122305391 Lat/Long SEE ATTACHED MAP FOR MORE LOCATION INFORMATION.

Parcel No.	¼	¼	Section	Township	Range	County
1624069010	SW	NE	S16	T24N	R06E	KING
Lot(s)	Block(s)		Subdivision			

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____ feet (North/ South) and _____ feet (East/ West)

from the (NW SW NE SE _____) corner of Section _____.

47.56512N/-122.05055 SEE PROVIDED MAP FOR LOCATION.

NOTE: If more than two points of diversion/withdrawal attach additional information on a separate sheet of paper.

Do you own the land on which the proposed point of diversion/withdrawal is located? YES NO

If no, do you have legal authority to make this application for use of another's land? YES NO

Provide the owner name(s), address, and phone number: Robert Nunnenkamp, King County Parks and

Recreation, 201 South Jackson St. Suite 700, Seattle, WA 98104-3856: 206.263.6216

Rich Benson, Sammamish Lake State Park, 2000 NW Sammamish State Park, Issaquah, WA 98027: 425.455.7010

For Ecology Use	APPLICATION NO: _____ SEPA: Exempt/Not Exempt
	Fee Paid: _____ Check No: _____ ECY Coding: 001-001-WR1-0285-000011
Date Returned _____	By _____ Priority Date _____ By _____ WRIA: _____

Section 4. PLACE OF USE

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 it carefully in the space below.

As described above, water would be used for the remote site incubators (RSIs) located at the Issaquah Fish Hatchery (see attachment for map). The Issaquah Fish Hatchery is located along the Issaquah Creek at T24N R06E S28 SE1/4 in King County. Parcel numbers are 3324069023 and 3324069022. Property is just outside the City of Issaquah.

¼	¼	Section	Twp.	Range	County	Parcel No.
SE		S28	T24N	R06E	KING	3324069023 and 3324069022

Do you own all the lands on which the proposed place of use is located? YES NO.

If no, do you have legal authority to make this application for use of another's land? YES NO

Provide owner name(s), address, and phone number: Doug Hatfield Issaquah State Hatchery, 425.775.1311 ext. 109 or 206.719.3293 cell

Are there any other water rights or claims associated with this property or water system? YES NO N/A

If yes, provide the water right and/or claim numbers: Issaquah Water Right 1330 Certificate. Ground Water Certificate 311

Attach a map of your project showing the point of diversion/withdrawal and place of use. If platted property, be sure to include a complete copy of the plat map.

See Attachments.

Section 5. WATER SYSTEM DESCRIPTION

Describe your proposed water system (include type and size of devices used to divert or withdraw water from source): To collect water, a specially designed hatchery truck will siphon 200 to 600 gallons from Laughing Jacob's Creek. Using a 1-inch diameter flex hose, creek water will be pumped into a water tank on the truck. The flex hose will be screened to minimize debris, insects, and fish from entering the hose. The portable gas powered pump will withdraw water at a rate of 10 to 30 gallons per minute. Depending on flow conditions, water may be withdrawn slowly (over two hours) to keep sufficient water in the pool or riffle. Water withdrawal would occur either on the East Lake Sammamish Trail site or the Lake Sammamish State Park site. The East Lake Sammamish Trail Site is administrated by the King County Parks and Recreation, and the Lake Sammamish State Park site is administrated by Washington State Park. See attached maps for project locations. The water truck will never enter the wetted width or drive or park on a vegetated stream bank (except grasses).

Section 6. DOMESTIC WATER SUPPLY SYSTEM INFORMATION

(Complete A or B, and C below)

A.) Domestic Water Systems only	B.) Municipal Water Systems only <i>(defined under RCW 90.03.015)</i>
Projected number of connections to be served: _____	Present population to be served water: _____
Type of connections: _____ <i>(e.g., home, recreational cabin)</i>	Estimate future population to be served: _____ (20 year projection)
C.) Water System Planning	
Do you have a Water System Plan approved by the Washington State Department of Health, Drinking Water Division? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If yes, date plan was approved _____ / _____ / _____ Water System Number: _____	

Name of water system: _____

Are you within the service area of an existing water system? YES NO

If yes, explain why you are unable to connect to the system: _____

Section 7. IRRIGATION/STOCKWATER/OTHER FARM USES

Irrigation

Total number of acres requested to be irrigated under this application = _____ ACRES

NOTE: Outline the area to be irrigated on your attached map.

Stockwater

List number and kind of stock: _____

Is the proposed project for a dairy farm? YES NO

Other Proposed Farm Uses

Describe all proposed uses: _____

Family Farm Water Act (RCW 90.66):

Calculate the acreage in which you have a controlling interest, including only:

- Acreage irrigated under water rights acquired after December 8, 1977,
- Acreage proposed to be irrigated under this application, and
- Acreage proposed to be irrigated under other pending application(s).

Is the combined acreage under existing rights greater than 6000 acres? YES NO

Do you have a controlling interest in a Family Farm Development Permit? YES NO

If yes, enter Permit No: _____

Section 8. OTHER WATER USES

Hydropower

Indicate total feet of head _____ and proposed capacity in kilowatts: _____

Describe works: _____

Indicate all uses to which power is to be applied: _____

FERC License No: _____

Mining/Industrial Use

Describe use, method of supplying and utilizing water: _____

Other Use

Section 9. WATER STORAGE

Will you be using a dam, dike, or other structure to retain or store water? YES NO

Are you proposing to store more than 10 acre-feet of water? YES NO

Will the water depth be 10 feet or more? YES NO

If you answered yes to any of the above questions, please describe: _____

NOTE: If you will be storing 10 acre-feet or more of water and/or if the water depth will be 10 feet or more at the deepest point and some portion of the storage will be above grade, you must also complete an Application for Permit to Construct a Reservoir and a Dam Construction Permit and Application.

Section 10. DRIVING DIRECTIONS

Provide detailed driving directions to the project site: Withdrawal site on the Lake Sammamish Trail is located adjacent (west of) to the Lake Sammamish Park. Find the Lake Sammamish State Park, located at 2000 NW Sammamish State Park in Issaquah, WA 98027

From I-90:

Drive east to exit #15, and follow the signs The water withdrawal site on the East Lake Sammamish Trail is located a few hundred feet from the State Park entrance on Laughing Jacob's Creek.

Site Address: Sammamish Lake State Park, 2000 NW Sammamish State Park, Issaquah, WA

Section 11. REQUIRED SIGNATURES

I certify that the information provided in this application is true and accurate to the best of my knowledge. I understand that in order to process my application, I grant staff from the Department of Ecology access to the site for inspection and monitoring purposes. Even though the employees of the Department of Ecology may have assisted me in the preparation of the above application, all responsibility for the accuracy of the information rests with me, the applicant.

Brad Thompson
Print Name
(Applicant or authorized representative)

Brad Thompson 8/20/10
Signature Date

Douglas G Hatfield
Print Name
(Legal Owner or Part Owner Place of Use)

Douglas G Hatfield 9/10/10
Signature Date

ROBERT NUNNENKAMP
Print Name
(Legal Owner or Part Owner Place of Use)

Robert Nunnenkamp 9-22-10
Signature Date

RICHARD BENSON
Print Name
(Legal Owner or Part Owner Place of Use)

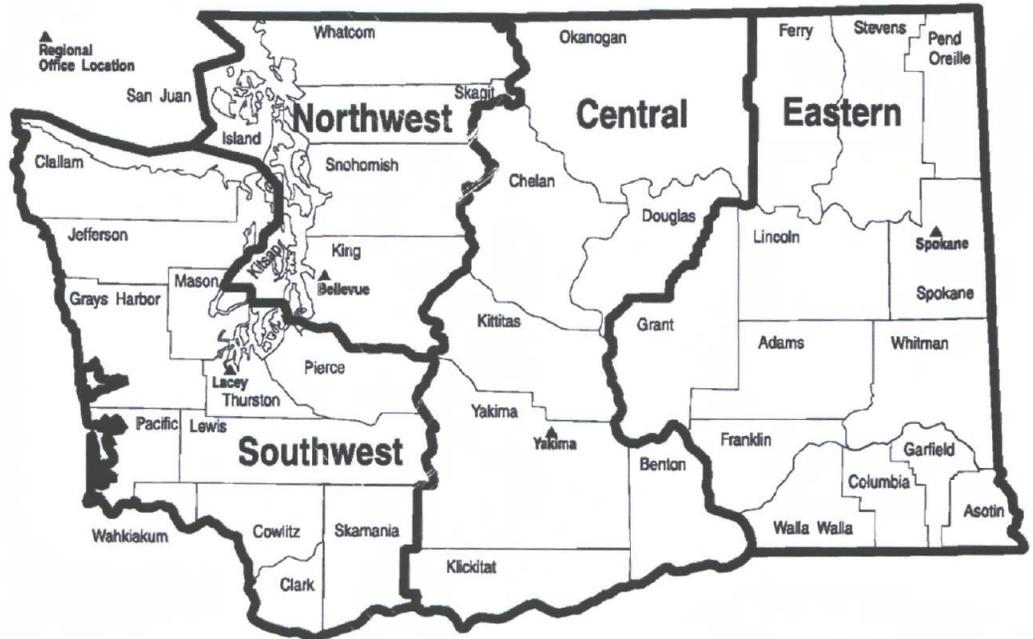
Richard Benson 10-1-10
Signature Date

Please check the region in which the project is located:

*Submit your application to: _____

DEPARTMENT OF ECOLOGY CASHIERING SECTION PO BOX 47611 OLYMPIA, WA 98504-7611	<input type="checkbox"/> Central Regional Office 15 W Yakima Avenue, Suite 200 Yakima, WA 98902 (509) 575-2490	<input type="checkbox"/> Eastern Regional Office 4601 N. Monroe Spokane, WA 99205-1295 (509) 329-3400
	<input checked="" type="checkbox"/> Northwest Regional Office 3190 – 160 th Avenue SE Bellevue, WA 98008-5452 (425) 649-7000	<input type="checkbox"/> Southwest Regional Office PO Box 47775 Olympia, WA 98504-7775 (360) 407-6300

If you have questions about your application, contact the Water Resources program at the regional office in which your project is located.



INSTRUCTIONS for the Application for a Water Right Permit

Please read these instructions carefully. Be accurate and complete in filling out your application, as the information you provide is very important in processing your application. Be sure to attach your fees, maps, and any additional information related to the water uses you are proposing.

If you need assistance, please contact the regional office in which your project will be located. A map of the Ecology regions is on the back page of the application. If your answers to any questions are longer than the space provided, you may attach additional sheets as necessary.

Check Boxes

Check the appropriate box for Surface or Ground Water.

Check the appropriate box for Permanent, Temporary, or Short Term use (duration of 4 months or less).

*Application Fee

- A minimum fee of \$50.00 is required for each new application for a water right permit.
- No fees are required for applications to be processed under a Cost Reimbursement contract.
- No fees are required for Emergency Drought Applications (only when a drought is declared).

If additional fees are required, Ecology will send you a letter requesting those fees. If you are unsure of the appropriate fee amount, contact your regional office for more information, or visit our website:

<http://www.ecy.wa.gov/programs/wr/rights/wr_fees.html>.

Please make checks or money orders payable to the "Department of Ecology." Cash cannot be accepted. ALL FEES ARE NONREFUNDABLE.

Section 1. APPLICANT

Enter the name of the person, organization, or water system for which the water right permit is requested. For instance, if the permit is required for a community water system, enter the name of the system (e.g. Green Acres Water Works). Enter a mailing address, including zip, daytime telephone, an alternate or cell phone number, and an Email address (if you have one).

Provide the name of a contact person (if different from above) to call in case we have questions about the application or proposed project. Describe the relationship of the contact person to the applicant, e.g. "consultant," "water systems engineer," "realtor," "chair of community well organization," etc.