

Profile

Which Boards would you like to apply for?

Wake County Water Partnership: Submitted

Please select your first Board preference: \*

☒ Wake County Water Partnership

Please select your second Board preference: \*

☒ None Selected

Please select your third Board preference: \*

☒ None Selected

Please select your fourth Board preference: \*

☒ None Selected

Please select your fifth Board preference: \*

☒ None Selected

Please select your sixth Board preference: \*

☒ None Selected

Leah  
First Name

Middle Initial

Harrison  
Last Name

900 7th Avenue  
Street Address

Suite or Apt

Garner  
City

NC  
State

27501  
Postal Code

What district do you live in?

None Selected

Business: (919) 773-4423  
Primary Phone

Mobile: (505) 850-5729  
Alternate Phone

lharrison@garnernc.gov  
Email Address

Town of Garner  
Employer

Assistant Town Engineer  
Job Title

**If you live in an Extraterritorial Jurisdiction Area, select Yes:**

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☐ Yes ☒ No

**In order to assure countywide representation, please indicate your place of residence:**

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None Selected

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## **Interests & Experiences**

**Why are you interested in serving on a Board or Commission?**

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From the beginning, my Engineering career has had a focus in water resources and stormwater management. While professionally I continue to grow my experience and tackle new roles, I would like to supplement that experience with additional chances to network with other professionals and learn from the plethora of knowledge that is present amongst groups such as this. I hope that I can use my experience to make a valuable contribution to the important things that the partnership is undertaking.

## **Work Experience**

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After receiving my undergraduate degree, I worked for approximately four years for the US Bureau of Reclamation in New Mexico as a Civil Engineer and Contract Manager. I worked on engineering projects for construction, rehabilitation, or modification of river channelization, channel conveyance systems, or other water diversion and transport systems. After a move to North Carolina and a brief stint working in education, I was hired as an Engineer with the City of Fayetteville. I worked in Fayetteville nearly four years, performing project management for stormwater projects and assisting in management of the stormwater division. In 2017, I was hired as the Assistant Town Engineering for the Town of Garner. In this role, I assist in management of the Engineering Department, manage all variety of capital projects, oversee private development review, manage the Town's stormwater program, and act as the Floodplain Administrator.

## **Volunteer Experience**

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I currently participate as a judge for the Future City Competition, in which middle school students imagine, research, design, and build cities of the future that showcase their solution to a citywide sustainability issue. During the annual competition, I participate in scoring essays and models prepared by the students, as well as evaluate their final presentations and provide mentoring and guidance to the teams. I am a board member of the Parent Teacher Association for the local elementary and high school, organizing activities for the students and teachers and serving as the membership organizer. I am a member and volunteer of the high school booster club, participating in fundraisers and volunteering at sporting events. I also volunteer with Fuquay Varina Homes for the Elderly, helping elderly residents with a variety of items. We do household chores, shop for supplies or gather donations, provide transportation, and plan activities and celebrations.

## **Education**

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I received a Bachelor of Science in Civil Engineering from California State University, Fullerton in 2009. I received a Master of Science in Civil Engineering from the University of New Mexico in 2021. I am also a registered Professional Engineer and Certified Floodplain Manager.

## Comments

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My direct supervisor, Chris Johnson, has been serving on this board for approximately 3 years. While he is resigning his position due to other obligations, we would like to continue to have the Town of Garner represented on this Board. I appreciate your time and consideration and look forward to working with you all.

[LHarrison Resume.pdf](#)

Upload a Resume

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If you have another document you would like to attach to your application, you may upload it below:

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Please upload a file

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## Demographics



Date of Birth

**Gender \***

☒ Female

**Ethnicity \***

☒ Caucasian

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**Other**

**How did you become aware of Wake County volunteer opportunities?**

☒ Current Wake County Volunteer

**If you selected "Other" above, how?**

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Please upload a file

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## ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

By submitting this electronic application, if appointed, I pledge by my signature below that I have read and will comply with the ethics guidelines for advisory boards and commissions as adopted by the Wake County Board of Commissioners, found [here](#).

Leah Harrison

# LEAH HARRISON

9820 Bitter Melon Drive | Angier, NC 27501 | 505-850-5729 | HarrisonLeah84@gmail.com

## SKILLS PROFILE

- Registered Professional Engineer with 8+ years of experience in public sector project management and design
- Effective communicator proficient in public speaking and community engagement
- Competent leader and manager with experience in human resources and business relations

## EMPLOYMENT HISTORY

### **Assistant Town Engineer, Town of Garner**

6/1/2019 — present

*Garner, NC*

- Manage the Town's Engineering Division and its staff in the absence of the Town Engineer
- Perform project management for Town Capital Improvement projects, to include stormwater, transportation, and facilities
- Evaluate and review plans, specifications, cost estimates and related documents prepared by consultant engineers for accuracy and compliance with Town standards and objectives
- Participate in planning for the Capital Improvements Program, including evaluation of potential projects and development of associated budget
- Manage the Town's stormwater program and oversee the Stormwater Administrator in the implementation of the NPDES permit and its requirements, respond to drainage complaints, and review new proposed construction
- Lead the Engineering Division's land development section, providing technical review and permitting for all public or private infrastructure associated with development within the Town.
- Coordinate with the City of Raleigh to facilitate utility services and connections for Town citizens and businesses
- Provide technical assistance to other City staff, boards, or commissions and responded to citizen inquiries as needed

### **Engineer II, City of Fayetteville**

9/1/2015 — 6/1/2019

*Fayetteville, NC*

- Managed the City's stormwater program and its staff in the absence of the Stormwater Manager
- Performed project management for the Capital Improvements Program, including planning, scheduling, budgeting, and managing the design, construction, and close-out of multiple projects simultaneously
- Assisted with the management of the stormwater Capital Improvements Program, including developing prioritization criteria for projects and preparing annual budgets
- Evaluated and reviewed plans, specifications, cost estimates and related documents prepared by consultant engineers for accuracy and compliance with City standards and objectives
- Managed the City's On-Call list for Engineering and Architectural services. Lead the effort to award a new On-Call list in 2018, to include the evaluation, selection, and award of approximately 30 professional services firms. Provided contracting instruction and acted as consultant liaison for other divisions and departments.
- Provided project coordination among multiple entities, including other City departments and outside companies and individuals. Facilitated utility coordination for upcoming projects
- Assisted with process improvement activities, including development and implementation of the engineering project checklist, participation in program-wide cost estimate updates, development of master budgeting tool and project schedule template for the Engineering Division, and implementation of new goal statements and key performance indicators.
- Provided technical assistance to other City staff, boards, or commissions and responded to citizen inquiries as needed

**Director, Huntington Learning Center**

9/1/2011 — 3/3/2014

*Fayetteville, NC*

- Managed and operated nationally accredited supplemental education institution
- Sold individualized educational programs for students of all ability levels
- Taught students from preschool through college a variety of subjects including phonics, vocabulary, reading comprehension, math, writing, study skills, and science
- Developed and maintained student instructional programs and advised on academic matters
- Hired, trained, and supervised teaching staff of approximately 20
- Initiated and maintained relationship with students, parents, local schools and businesses
- Regularly conducted sales presentations to individual parents and public groups.
- Collected tuition, managed profit and expenses, developed reports, and made purchase decisions

**Civil Engineer and Contract Manager, US Bureau of Reclamation**

10/1/2007 — 1/1/2012

*Albuquerque, NM*

- Prepared feasibility studies and performed preliminary and final design work for engineering features required for construction, rehabilitation, or modification of river channelization, channel conveyance systems, or other water diversion and transport systems
- Reviewed engineering plans and designs prepared by architect-engineering firms or other entities
- Served as Contracting Officer's Representative for construction and service contracts up to five million dollars
- Utilized databases and spreadsheets to track contractor work and compile contract data
- Performed pre-bid contracting activities including developing and reviewing contract specifications, developing estimates for work to be contracted
- Performed on-site contract monitoring to include performance of contract requirements as specified and observance of federal safety requirements

**EDUCATION****Master of Science, Civil Engineering**

6/1/2021

*University of New Mexico, Albuquerque, NM*

- Concentration in Construction Engineering and Management
- GPA: 4.0 out of 4.0

**Bachelor of Science, Civil Engineering**

5/1/2009

*California State University, Fullerton, CA*

- GPA: 3.9 out of 4.0
- Honors: Graduated Summa Cum Laude
- Registered Engineer in Training (EIT), Fall 2006

**PROFESSIONAL ASSOCIATIONS**

Registered Professional Engineer, NC

American Public Works Association, Member

North Carolina Water Resources Association, Member

Profile

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☒ Water Partnership

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☒ None Selected

Please select your third Board preference: \*

☒ None Selected

Please select your fourth Board preference: \*

☒ None Selected

Please select your fifth Board preference: \*

☒ None Selected

Please select your sixth Board preference: \*

☒ None Selected

Steven

First Name

Middle Initial

Quarcelino

Last Name

601 Evening Mist Drive

Street Address

Suite or Apt

Fort Mill

City

SC

State

29708

Postal Code

What district do you live in?

None Selected

Business: (704) 621-2717

Primary Phone

Mobile: (321) 720-8800

Alternate Phone

steven.quarcelino@carolinawaterservicenc.com

Email Address

Carolina Water Service of North Carolina

Employer

GIS Manager

Job Title

**If you live in an Extraterritorial Jurisdiction Area, select Yes:**

☒ Yes ☐ No

**In order to assure countywide representation, please indicate your place of residence:**

None Selected

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## Interests & Experiences

**Why are you interested in serving on a Board or Commission?**

I believe groups like the Wake County Water Partnership are an excellent way for citizens, companies, and other interested partners to grow as a community. We are living in an increasingly populated world where clean water will become an even higher prized commodity. The more we can communicate, plan, collaborate, and work with all interested parties, the better we can protect our waterways and serve our citizens. I welcome that challenge and want to help serve in whatever capacity the Commission and Partnership deem necessary.

## Work Experience

Carolina Water Service NC - GIS Manager, 2019-Present U.S. Department of State INL/A - GIS Manager, 2016-19 U.S. Department of State INL/A - GIS Analyst, 2009-16 U.S. Department of State INL/A - FLIR Operator, Afghanistan, 2008-09 U.S. Department of State INL/A - GIS Analyst, 2005-08

## Volunteer Experience

## Education

Bachelor of Arts - Geology Hanover College, Hanover, Indiana - 2003 Master of Science - Geosciences, GIS, and Remote Sensing Murray State University, Murray, Kentucky - 2005

## Comments

This month marks my 3rd year working for Carolina Water Service of North Carolina (CWSNC) as the Geographic Information Systems (GIS) Manager at CWSNC and my 17th year in GIS. CWSNC operates over 20 water and wastewater systems in Wake County that are continuing to grow. I would love to serve as a representative, provide my expertise, and create an open line of communication between the Partnership and my company.

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Upload a Resume

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If you have another document you would like to attach to your application, you may upload it below:

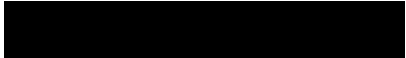
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Please upload a file

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## Demographics

Steven Quarcelino



Date of Birth

Gender \*

☒ Male

Ethnicity \*

☒ Caucasian

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Other

How did you become aware of Wake County volunteer opportunities?

☒ Other

If you selected "Other" above, how?

Contacted by Nancy Daly for need of a private water provider representative

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Please upload a file

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## ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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☒ None Selected

Please select your third Board preference: \*

☒ None Selected

Please select your fourth Board preference: \*

☒ None Selected

Please select your fifth Board preference: \*

☒ None Selected

Please select your sixth Board preference: \*

☒ None Selected

Tiffany

J

VanDerwerker

First Name

Middle Initial

Last Name

805 Wakehurst Drive

Suite or Apt

Street Address

Cary

NC

27519

City

State

Postal Code

What district do you live in?

None Selected

Mobile: (540) 212-3181

Home: (540) 212-3181

Primary Phone

Alternate Phone

tiffanyvanderwerker@gmail.com

Email Address

NC State University

PhD Student

Employer

Job Title

**If you live in an Extraterritorial Jurisdiction Area, select Yes:**

☐ Yes ☒ No

**In order to assure countywide representation, please indicate your place of residence:**

☒ Cary

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## Interests & Experiences

**Why are you interested in serving on a Board or Commission?**

I am currently a PhD student at NC State where my husband and I recently moved to Wake County. I am interested in the environmental future of Wake County and believe that education of the public and restoration of natural resources is the best way to keep Wake County beautiful.

## Work Experience

2016—2021: Hydrogeologist, Maryland Geological Survey, Baltimore, MD. Responsibilities include conducting local and regional hydrogeologic investigations; interpreting water-quality data in relation to geology, land use, well construction, and other factors; preparing interpretive reports, maps, and data layers. 2012—2014: Staff Geologist, Draper Aden Associates, Blacksburg, VA. Responsibilities included overseeing monitoring well drilling and installation, determining groundwater flow rate and direction, soil sampling for hazardous substances, and validating groundwater data.

## Volunteer Experience

Environmental Advisory Council for Carroll County, Maryland (April 2018 – April 2021) Virginia Tech Graduate Student Assembly (August 2014 - May 2016)

## Education

North Carolina State University, Raleigh, NC: Earth Sciences, Ph.D., in progress Virginia Tech, Blacksburg, VA: Geosciences/Hydrogeology, M.S. 2016 Virginia Tech, Blacksburg, VA: Geosciences/Geochemistry, B.S. 2012

## Comments

I believe that my enthusiasm for environmental stewardship and professional experience make me a great candidate for the Wake County Water Partnership.

[CV\\_VanDerwerker.pdf](#)

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

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## Demographics

Tiffany J VanDerwerker



Date of Birth

**Gender \***

☒ Female

**Ethnicity \***

☒ Caucasian

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**Other**

**How did you become aware of Wake County volunteer opportunities?**

☒ County Website

**If you selected "Other" above, how?**

Please upload a file

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**ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS**

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# **Tiffany J. VanDerwerker, P.G.**

Ph.D. Student

Marine, Earth and Atmospheric Sciences

North Carolina State University

3154 Jordan Hall | Raleigh, NC

[tjvander@ncsu.edu](mailto:tjvander@ncsu.edu)

## **Education**

North Carolina State University, Raleigh, NC: Earth Sciences, Ph.D., in progress

Virginia Tech, Blacksburg, VA: Geosciences/Hydrogeology, M.S. 2016

Virginia Tech, Blacksburg, VA: Geosciences/Geochemistry, B.S. 2012

## **Professional Experience**

**2016—2021:** Hydrogeologist, Maryland Geological Survey, Baltimore, MD. Responsibilities include conducting local and regional hydrogeologic investigations; interpreting water-quality data in relation to geology, land use, well construction, and other factors; preparing interpretive reports, maps, and data layers.

**2012—2014:** Staff Geologist, Draper Aden Associates, Blacksburg, VA. Responsibilities included overseeing monitoring well drilling and installation, determining groundwater flow rate and direction, soil sampling for hazardous substances, and validating groundwater data.

## **Boards and Committee Memberships**

PFAS Workgroup - State of Maryland (October 2020 - May 2021)

Environmental Advisory Council for Carroll County, Maryland (April 2018 – April 2021)

Virginia Tech Graduate Student Assembly (August 2014 - May 2016)

## **Selected Publications and Reports**

VanDerwerker, T.J., In Prep., Effects of Road-Deicing Salt on Groundwater in the Maryland Piedmont: Maryland Geological Survey Report of Investigations No. 89

VanDerwerker, T.J., 2019, Water Quality and Temporal Variations in Chloride Concentrations in Groundwater in the Maryland Piedmont: Maryland Geological Survey Administrative Report 19-02-01

VanDerwerker, T.J., Bolton, D.W., and Gemperline, J.M., 2019, Wellwater Quality in the Appalachian Plateau Physiographic Province of Maryland: Maryland Geological Survey Report of Investigations No. 85

Gemperline, J.M., VanDerwerker, T.J., and Andreasen, D.C., 2018, Effects of increased withdrawals from the Aquia aquifer on the Mayo Peninsula, Anne Arundel County, Maryland with an evaluation of water quality: Maryland Geological Survey Report of Investigations No. 84

VanDerwerker, T.J., Zhang, L., Ling, E., Benham, B., and Schreiber, M.E., 2018, Evaluating Geologic Sources of Arsenic in Well Water in Virginia (USA), International Journal of Environmental Research and Public Health, vol. 15, 4, pp. 1-17.

VanDerwerker, T.J., 2016, Evaluating Sources of Arsenic in Groundwater Using a Logistic Regression Model: Blacksburg, Virginia, Virginia Tech, Master's Thesis,  
<https://vtechworks.lib.vt.edu/handle/10919/77957>

Warburton, T., Schreiber, M., VanDerwerker, T., Ling, E., Benham, B., and Spiller, A., 2019, Spatial Mapping of Trace Element Concentrations in Well Water in Virginia, Dennis Dean Undergraduate Research and Creative Scholarship Conference, Blacksburg, VA (poster).

### **Selected Presentations**

"Road Salt Impacts on Groundwater and Water Quality" Tiffany VanDerwerker and Andrew Lazur, November 13, 2020 conducted as a virtual presentation for the University of Maryland AGNR Cornerstone Event.

"Road Salt Contamination in Groundwater and Surface Water in the Maryland Piedmont" Tiffany VanDerwerker, February 13, 2020 conducted as a talk for the Maryland Delaware Water Well Conference.

"Road Salt Contamination in Groundwater and Surface Water in the Maryland Piedmont" Tiffany VanDerwerker, December 6, 2019 conducted as a talk for the Maryland Water Monitoring Council Annual Conference.

"Temporal Variations in Chloride Concentrations in Groundwater in the Piedmont Physiographic Province of Maryland" Tiffany VanDerwerker, December 7, 2018: conducted as a poster for the Maryland Water Monitoring Council Annual Conference.

"Effects of Increased Withdrawals from the Aquia Aquifer on the Mayo Peninsula, Anne Arundel County, Maryland with an Evaluation of Water Quality" Tiffany J. VanDerwerker, September 27, 2018: conducted as a talk for the Maryland Groundwater Symposium.

"Groundwater 101" Tiffany J. VanDerwerker, September 25, 2018: conducted as a talk for the Central Atlantic States Association (Food and Drug Officials) Baltimore Conference.

"Evaluating Geologic Sources of Arsenic in Groundwater in Virginia using a Logistic Regression Model" Tiffany J. VanDerwerker, February 13-14, 2018: conducted as a talk for the Virginia Water Well Association Winter Conference.

"Evaluating Geologic Sources of Arsenic in Groundwater in Virginia using a Logistic Regression Model" Tiffany J. VanDerwerker and Dr. Madeline Schreiber, October 13, 2017: conducted as a webinar for the Virginia Cooperative Extension.

"Wellwater Quality in the Appalachian Plateau Physiographic Province of MD", Tiffany J. VanDerwerker, September 28, 2017: conducted a talk for the Maryland Groundwater Symposium in Baltimore, MD.

### **Awards and Accolades**

January 2022 – Recipient of Graduate Student Research Grant from the Water Resources Research Institute of the University of North Carolina (WRRI-UNC) and North Carolina Sea Grant: "Assessing Water Quality in the Upper Cape Fear Aquifer, a Potential Alternate Drinking Water Source for Chemours-Area Residents"

April 2021 - Recipient of NC State University Provost's Doctoral Fellowship for academic year 2021-2022 Provost's Fellowships are one-year awards and are designed to help in college and departmental efforts to recruit outstanding new doctoral students to NC State University.

November 2018 - Sponsored attendee of the Emerging Leaders Alliance Conference in Falls Church, VA by the National Groundwater Association to foster leadership in the engineering and scientific community.