

Profile

Timothy

First Name

C

Middle Initial

Hughes

Last Name

tchughes1a@gmail.com

Email Address

17 South Cirus Ave

Home Address

Suite or Apt

Clearwater

City

FL

State

33765

Postal Code

Home: (703) 361-3732

Primary Phone

Alternate Phone

Length of Residency - please select one. \*

☒ 1 to 5 years

Do you own or represent a business in Clearwater?

☐ Yes ☒ No

If yes, where is the business located? Do you conduct business with the City?

Which Boards would you like to apply for?

Environmental Advisory Board: Submitted

Retired

Employer

Retired

Job Title

Occupation - If retired, enter former occupation.

Sr. Environmental Specialist in Watershed Protection

Have you served or do you serve on a board in Clearwater?

☐ Yes ☒ No

If yes, please list the name of the board.

**Why do you wish to serve on this board/committee? If seeking reappointment, state why you should be reappointed.**

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I wish to serve the City of Clearwater on the Environmental Advisory Board, because I believe my lifelong interests and career experiences in the environmental field, especially as it relates to watershed protection and best stormwater management practices, can be used to serve the best interests of the citizens of Clearwater by helping to protect the quality of life and environment in Clearwater.

**What personal qualifications can you bring to this board or committee?**

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Over thirty years experience in the environmental field. The last twenty years of my career were in local government, the Public Works Dept, Environmental Management Division in Prince William County Government in Northern VA. Responsibilities implementing best stormwater management practices and watershed protection. Supervised inspection and maintenance of stormwater facilities, conducted stream assessments and wrote watershed studies. Managed the County's undeveloped land assets transferring land to parks, managing public outreach programs doing numerous volunteer reforestation projects along County owned waterways and floodplains and managing the County's volunteer Adopt-A-Waterway program. Project engineer implementing a large in-stream trash trap at the headwaters to a Potomac River estuary preventing stormwater pollution that won best Environmental Award in Virginia in 2022.

**List Community Activities**

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Active volunteer with the Suncoast Sierra Club's Clean Energy Committee and Conservation Committee. Active volunteer with Stevenson Creek Advocacy Group to protect the Manatees and their aquatic preserve. Member of our local Presbyterian Church. Fostering good relationships with all my neighbors. Staying fit working out and making friends at the local LA Fitness club, biking to Clearwater Beach and Safety Harbor, and kayaking and fishing local aquatic preserves like the Stevenson Creek estuary and St. Joseph Sound.

[TC\\_Hughes\\_Resume\\_2024.doc](#)

Upload a Resume

Question applies to multiple boards

[TC\\_Hughes\\_FL\\_driver\\_license.pdf](#)

Please attach a copy of one of the following documents: 1) valid current Florida Driver License issued to an address within city limits, or 2) Declaration of Domicile filed with the city clerk affirming residency within city limits.

Question applies to multiple boards

**Are you related to any member of the City Council?**

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☐ Yes ☒ No

Question applies to multiple boards

**If yes, please provide name and explain relation.**

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N/A

Question applies to multiple boards

**Are you related to a city employee?**

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☐ Yes ☒ No

Question applies to multiple boards

**If yes, please provide name and explain relation.**

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N/A

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## Demographics

Some boards and commissions require membership to be racially, politically or geographically proportionate to the general public. The following information helps track our recruitment and diversity efforts. (Optional)

## Ethnicity

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☒ Caucasian/Non-Hispanic

## Gender

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☒ Male

08/09/1957

Date of Birth

**The City of Clearwater strives to promote diversity and provide reasonable accommodations for individuals with disabilities. If you are requesting accommodation, please indicate below:**

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**By clicking on "I Agree," below, I affirm that the information above is true and correct, and that I understand and agree to the responsibilities and commitment of time associated with an appointment to a Clearwater advisory board or committee.**

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☒ I Agree

All material submitted to the City of Clearwater is subject to the public records law of the State of Florida including Chapter 119, Florida Statutes.

## **TIMOTHY CHARLES HUGHES**

17 S. Cirrus Ave, Clearwater, FL 33765  
(703) 361-3732 / tchughes1a@gmail.com

### **OBJECTIVE:**

To support the goals and strategies of an organization whose mission is to implement best practices protecting local waterways to meet water quality standards and regulatory requirements in a cost-effective manner.

### **SUMMARY OF QUALIFICATIONS AND EXPERIENCE:**

Over thirty years of experience implementing management systems and engineering practices in the public and private sector. Twenty most recent years implementing environmental programs in local government. Responsibilities included asset management of all undeveloped County owned properties, partnering with Parks Dept. transferring undeveloped County assets to Parks, and managing numerous small reforestation projects on undeveloped County land located along streams and rivers. Extensive experience implementing watershed protection and best stormwater management practices (BMP) programs. Includes five years conducting stream assessments using the Rapid Stream Assessment Technique (RSAT) another five years' experience writing watershed studies using the RSAT method, GPS instruments, GIS data mapping and geotagging of digital photos. Extensive supervisory experience in the inspection and maintenance of stormwater facilities. Experience in stormwater retrofit and concept design of stormwater BMPs, delineating contributing drainage areas (CDAs) and working knowledge of the Runoff Reduction Method to estimate credits in Total Maximum Daily Load (TMDL) of nitrogen, phosphorous and total suspended solids. Implemented successful public outreach programs like Adopt-A-Stream and Adopt-A-Pond in partnership with the County Cooperative Extension. Implemented successful in-stream litter trap preventing stormwater litter from polluting estuary to the Potomac River. Other qualifications involve excellent database management and technical writing skills.

### **EDUCATION AND CERTIFICATIONS:**

VA Dept. of Environmental Quality certification – Stormwater Inspector (2009-present), Stormwater Mgmt Reviewer (expired) ESRI-ArcGIS training and Trimble GNSS-GPS training for watershed protection applications (current).

Applied GIS engineering in stormwater management, drainage area analysis, BMP retrofits and LID practices (current)

Bachelor's degree, focus environmental health & safety, Oakland Univ, Rochester, MI; 3.3 GPA Nat'l Honor Society (1995).

Credits toward engineering degree (36 credits), George Mason University (1980-1982)

Associates of Science degree, environmental studies, Ferrum College, Ferrum, VA (1977)

### **EMPLOYMENT HISTORY:**

#### **PRINCE WILLIAM COUNTY, VA, PUBLIC WORKS DEPARTMENT (2003 – PRESENT)**

**SR. ENVIRONMENTAL SPECIALIST (2016 to 2024 Retirement)** Reported directly to Natural Resources Section Chief, who reported directly to Assistant Watershed Management Branch Chief. Inspection and maintenance of undeveloped County owned properties. Identifies watershed improvement projects including reforestation projects along perennial streams and stormwater BMP retrofit projects in older developed areas to reduce urban stormwater runoff and marine debris. Excellent knowledge of GIS watershed related mapping systems including FEMA floodplains, stormwater easements, and sanitary easements. Coordinating interagency public outreach and environmental education, volunteer projects and developed volunteer Adopt-A-Waterway program with the local Soil and Water Conservation District. Assists with implementation of the MS4 permit and related watershed improvement action plans. Project management experience includes practical knowledge of construction, inspection and maintenance of BMP bio-retention and low impact development practices. Assesses drainage and stormwater improvement projects for undeveloped County owned properties. Supervised GIS interns and assigns tasks to college interns. Managed project for large in-stream trash trap preventing stormwater litter from polluting the estuary that feeds the Potomac River.

#### **ENGINEERING ASSISTANT III (2009 to 2016): Watershed Management Branch, Environmental Services**

**Division.** Reports directly to Watershed Protection Section Chief, who reports directly to Assistant Watershed Management Branch Chief. Responsibilities include: Technical support for watershed studies and stream assessments. Detailed GIS analyses of stormwater management facilities and their drainage areas. Assists with conducting wetlands delineations using GPS/GNSS instruments. Manages County contractor supervising task orders for the maintenance of undeveloped County owned properties. Possesses thorough knowledge of water resource facilities and systems. Possesses thorough knowledge in the use of GIS systems and GPS/GNSS instruments for watershed protection applications including wetland delineations. Thorough knowledge applying the Rosgen method for delineating stream reaches, applying the modified RSAT (Rapid Stream Assessment Technique) involving benthic/macro-invertebrate sampling, and preparing stream assessment reports involving technical narratives, data tables and detailed GIS maps. Obtains current VA DEQ inspector certification. Nominated for County Executive Award in 2016 for public outreach involving interagency volunteer projects involving the Adopt-A-Stream program and small reforestation projects.

#### **ENGINEERING ASSISTANT II (05/2005 – 04/2009) for Watershed Management Branch of Environmental Services**

**Division.** Reported to Stream Protection Manager. Handled interagency coordination of watershed / drainage assistance requests from citizens. Conducted inspections of stormwater ponds, BMP retrofits, erosion and sediment control, and drainage improvement projects. Conducted QA/QC inspections in the construction of bioretention facilities. Implemented innovative

information management solutions for Watershed Mgmt. using Tidemark-Enterprise system, GIS/County Mapper, and ArcView to improve engineering services for County citizens. Assisted with management of RPAs, wetlands delineations and stream stabilization projects. Oversees inspection and maintenance of undeveloped County-owned properties. Managed weed/vegetation enforcement program and assigned contractor task orders.

**DRAINAGE INSPECTION SUPERVISOR (01/2004 – 04/2005) for Watershed Management Branch of Environmental Services Division.** Reported to Drainage Engineer/Supervisor. Supervised inspection of county stormwater/BMP facilities and drainage systems to protect local streams/watersheds and to minimize flooding. Coordinated crew inspections, inspection reports, performance measures, drainage assessments and solutions. Improved SWM facility inspection process.

**PROPERTY CODE INSPECTOR (01/2003 - 01/2004) for Property Code Enforcement Branch of Neighborhood Services Division.** Responsible for enforcing County zoning ordinances & property maintenance codes. Inspected properties, building structures; documented inspection findings, communicated corrective action plans for voluntary citizen compliance. Worked with County Attorney's Office to ensure compliance with County code and prepare District Court cases.

**ANGLER ENVIRONMENTAL, LLC, Manassas, VA 01/2007 – 09/2008**

**PART-TIME CERTIFIED EROSION AND SEDIMENT CONTROL INSPECTOR** – Part-time subcontractor by Angler Environmental assigned to conduct site inspections for erosion and sediment control and limits of clearing for clients in Loudoun and Fairfax counties in accordance with Virginia Stormwater Management Program (VSMP) permit.

**PRINCE WILLIAM COUNTY PUBLIC SCHOOLS, VA 2001 – 2005**

**FULL-TIME CLASSROOM SCIENCE TEACHER (2001-2002 school year) Godwin Middle, Dale City, VA**

Teacher of Life Sciences for three Grade 7 classes and teacher of Physical Science for two Grade 8 classes. Implemented curriculum standards of learning (SOLs) in good standing. Life science topics from cell biology to ecological-environmental systems. Physical science topics from basic chemistry and to basic physics. Applied SI metrics and labs w/ scientific method.

**PART-TIME HOMEBOUND TEACHER (2002 - 2005)** Part-time homebound instructor providing general homebound instruction to expelled junior high and high school students to achieve grade level knowledge in core subjects.

**VISTA TECHNOLOGIES / SPECPRO, Inc., Lorton, VA 2000 - 2001.**

SpecPro is a consulting firm of 200 employees providing science and engineering services for government.

**SENIOR STAFF SCIENTIST:** Reported to the Program Manager and the Dir. of Installation Support at U.S. Army base, Fort Belvoir, VA. (1) Responsible for implementing Air Quality Program involving RACT permit and reporting; updating Title-V permit and emissions inventory for boilers; generators and incinerators; preparing annual emissions statement. Used combustion analyzer w/ NOx & SO2 sensors for stack testing. Responsible for updating the asbestos inventory and database.

**ENVIRONMENTAL QUALITY RESOURCES (EQR), Inc., Gaithersburg, MD 1998 – 2000**

Civil engineering firm specializing in watershed and stormwater management, stream restoration and urban reforestation.

**PROJECT MANAGER AND SAFETY OFFICER:** Reported to the VP of Engineering. Managed NPDES stormwater management inspection & maintenance contract for Montgomery County DEP. Managed inspection staff to inspect 1500 county (aboveground and underground) stormwater facilities. Client deliverable included reporting inspection findings on scanned site plans, in database and digital photos. Assisted with bathymetric studies of stormwater ponds. Obtained working knowledge of erosion and sediment control, stormwater drainage, and stream restoration. Implemented company safety program including employee training, job safety analysis (JSAs), confined space, fall protection, and trench safety.

**PPG INDUSTRIES, INC., Creighton, PA 1994 - 1998**

Automotive glass plant with 300 employees located near Pittsburgh, PA. Manufactured OEM and ARG windshields.

**SUPERVISOR OF SAFETY, HEALTH AND ENVIRONMENTAL AFFAIRS:** Reported to the HR Director, who reported to the Plant Manager. Supervised Plant Nurse and four Security Guards/EMTs. Implemented the Environment, Health, and Safety (EHS) program and maintained environmental permits (Title V Air permit, NPDES permit, POTW permit, RCRA permit, and storage tank permits). Prepared RCRA reports, CERCLA/SARA 313 TRI Form R reports. Managed waste reduction team, air quality team, water quality team, and pollution prevention (P2) and energy conservation team. Reduced hazardous waste by 80% in four years. Increased recycling to 96 % (by weight) for all non-hazardous waste generated.

Implemented plant's occupational safety and health management system. Facilitated ergonomics team, personal protective equipment (PPE) team, lockout-tagout team, confined space entry and fall protection team, housekeeping team, fork lift safety team, and behavioral safety team. Facilitated hearing conservation/noise reduction team, asbestos/fiber management team, industrial hygiene/air sampling team, and employee wellness team. In four years, the program resulted in 70% reduction in recordable case/injury rate. Handled accident investigations, case management, and OSHA 200 recordkeeping. Implemented plant security, emergency preparedness w/ SPCC plans, and fire/emergency drills. Reported safety performance measures in management meetings.

**PPG INDUSTRIES, Inc., Troy, Michigan 1987 – 1994**

**CAD / NC PROGRAMMER:** Contractor for TSA Advanced Engineering Technologies, Inc. for PPG Industries in Ford City, PA, then hired by PPG and transferred to PPG's Automotive Glass design and tooling headquarters in Troy, MI. Staff member for Design Services Group. Project responsibilities included scheduling, designing and programming 2D glass artwork, defrosters, and trademarks according to geometric specifications for automotive glass plants. Also, 3D programmed

check fixtures on 5-axis mill. Member of the facility EHS Leadership Team that managed environment, health and safety issues. Participated in solving industrial hygiene and health exposure control issues in Tooling.

**SCIENCE APPLICATION INTERNATIONAL CORP., Pittsburgh, PA 1984 - 1987**

**SYSTEMS ANALYST:** Staff member for information technologies contract at the U.S. Dept. of Energy, Office of Safety and Environmental Support at the Pittsburgh Energy Technology Center. Responsible for programming the Center's process control system: the Security Alarm Notification and Energy Management System. Supervised part-time programmer analyst.

**INTERACTIVE GRAPHICS SERVICE COMPANY, McLean, VA 1982 – 1984**

**CAD SYSTEMS OPERATOR:** Operated two DEC mini-computer systems networked with five Intergraph workstations.

**SOLAR DYNAMICS, INC., Fairfax, VA 1981 – 1982**

**CONSTRUCTION ASST ENGINEER:** Assisted installing several large-scale solar hot water and space heating systems for commercial use.

**INSTITUTE OF MODERN PROCEDURES, INC., Navy Yard, Wash., D.C. 1978 – 1981**

**COMPUTER OPERATOR:** Contractor for naval engineering computer center operating Digital 100 computer systems for staff of programmer analysts. Possessed security clearance.

**SUMMARY OF TECHNICAL SKILL SETS, CERTIFICATIONS, MEMBERSHIPS, ECT:**

Certified DEQ Erosion and Sediment Control Inspector. (2006-Present).

Certified DEQ Combined Administrator. (2008-2012)

Proficient user of MS Office Word, Excel, PowerPoint and database applications (2000-Present)

Proficient user of ESRI GIS, ArcView, ArcMap and ArcGIS Pro for watershed management applications (2007-Present).

Proficient user of GPS camera and digital camera applications (2008-Present)

Effective user of handheld GPS TerraSync Trimble Ranger and desktop GPS Pathfinder Office software

Thorough knowledge of stream assessments/watershed studies using Rosgen method and RSAT method.. (2008-Present)

Applied analytical knowledge of urban stormwater management, contributing drainage areas and hydrology. (2006-Present)

Applied field knowledge of design, construction and performance of BMP bio-retention/rain garden facilities. (2008-Present)

Applied knowledge of civil engineering site plans, as-built drawings and topographical surveys (1998 - Present).

Applied knowledge of 1987 COE Wetlands Determinations Manual and wetlands delineation practices (2008-Present)

Applied knowledge of Resource Protection Areas (RPA) and Preservation Area Site Assessments (PASA) (2005-Present)

Applied knowledge of NPDES, VPDES and MS4 stormwater permits (1994 - Present)

Applied knowledge of Clean Water Act, EPA 40 CFR, Total Maximum Daily Loads (TMDLs) (1998-Present)

Applied knowledge of County zoning ordinances and Design and Construction Standards Manual (DCSM) (2003-Present)

Applied knowledge of Continuous Quality Improvement (CQI) techniques on the job. (2006-Present)

Applied knowledge of Total Quality Management: ISO 14000 (1998, 2000), and ISO 9000, Deming, and Crosby (1990-1998).

Applied knowledge of Environmental Management Systems (EMS) (1994-2000)

Applied knowledge in pollution prevention and source reduction paradigm. (1992, 1994-1998)

Applied knowledge Safe Drinking Water Act, EPA 40 CFR, drinking water permit and water sampling (1996-1998)

Applied knowledge of Clean Air Act, EPA 40 CFR, Title-V and RACT permits (1996, 2000, 2001)

Applied knowledge of industrial hygiene and environmental air sampling strategies (1994 – 1998).

Applied knowledge of CERCLA / EPCRA SARA Title 313 Form R reports, EPA 40 CFR (1994-1998).

Applied knowledge of NEPA, EPA 40 CFR (2000, 2001); RCRA, EPA 40 CFR certification (1994-2000).

Applied knowledge of OSHA 200 Recordkeeping, 29 CFR, Medical Management, and Disability Management (1994-1998).

Applied OSHA 29CFR, Materials Mgmt and Haz Com (1994-1999); DOT 49CFR, Hazard Materials certification (1994-1998).

Applied OSHA 29 CFR, Confined Space Entry (CSE) and Fall Protection (1994-2000).

Ergonomics applications (1995-1998) and Behavioral Accident Prevention seminars (1995-1997).

Site and facility security systems (1994-1998); County zoning ordinances, implementation and enforcement (2003)

Extensive knowledge in CAD applications; AutoCAD and MicroStation (1989 – 1995)

Member of City of Manassas Recreation and Parks Committee (2001-2007).

Member of City of Manassas Solid Waste Committee (2003-2007).