

PROJECT TEAM



Matthew Whitacre | GIS Manager

Email: mwhitacre@greenwayeng.com

Title and Responsibilities:

Mr. Whitacre is the GIS manager and oversees daily mapping, database management, data acquisition, and application development tasks.

Professional Profile:

Mr. Whitacre is a GIS professional who has been responsible for developing numerous Mobile and Desktop GIS applications to improve workflows both in the field and in the office. One of which GIS applications was the first of its kind in the state of Virginia - "GEOSWM", a digital GIS based digital Stormwater Pollution Prevention Plan (SWPPP). GEOSWM was approved for trial use by the DEQ and EPA and is Patent Pending.

Office Location

151 Windy Hill Ln.,
Winchester, VA 22602

Education:

2009 – Bachelor of Science: Geographic and Environmental Science – James Madison University

2014 – Graduate Certificate: Geographic Information Systems – Johns Hopkins University

Certifications:

2010 – 40 Hour HAZWOPER, OSHA

2013 – Watershed Management, US Environmental Protection Agency

2014 – Confined Space, OSHA

2016 – Stormwater Management Inspector, VA Department of Environmental Quality

Experience:

2018-Present – GIS Manager, Greenway Engineering

2013-2018 – GIS Specialist and Stormwater Project Manager, Angler Environmental
Warrenton, VA

2010-2011 – Environmental Scientist, URS Corporation – Waynesboro, VA

PROJECT TEAM

Projects:

GEOSWM – NPDES and CWA Compliance Inspections Web Mapping Application – Eastern United States

This application allows Erosion and Sediment Control Inspectors to perform field compliance inspections entirely on their mobile devices, from updating site specific maps to report generation and distribution. Engineered site plans are georeferenced to match their exact location on Earth's surface and then further designed to a specific transparency where critical base map information can still be displayed. Through external developer advising and collaboration the mapping application and information collected within the application is directly linked to a sister reporting program. Inspectors can quickly login to this reporting program and generate a client specific report for the corrective action's items entered during the inspection that occurred moments ago and send this report to the client directly from that dashboard.

Greenway Engineering Projects GIS Applications – Virginia and West Virginia

Developed county-based Web GIS applications focused on current and past Greenway projects for each municipality. Applications are available to the entire organization and provide an interactive way to search and explore parcel information and details of current and past projects. Counties these applications have been developed for include: Berkeley, Jefferson, and Morgan in West Virginia and Frederick, Clarke, Shenandoah, and Warren in Virginia.

VDOT Stormwater Basin Maintenance Web Mapping Application – Virginia.

This Mobile GIS application contains roughly 400 facility locations for multiple VDOT districts statewide. Field crews can easily locate and route themselves to stormwater facilities, click on the corresponding point to identify vital facility information, fill out custom fields of type work completed, facility status, and attach photos. Project managers can see all this information in real time. Office personnel used this application as a planning tool, status tool, and to update VDOT POC's of project progression and type of work completed.

PROJECT TEAM

U.S. Army Garrison Ft. Belvoir Stormwater Facility MS4 Compliance Inspections – Fort Belvoir, VA.

Oversaw and conducted compliance inspections of all stormwater control structures on the U.S. Army installation. Nearly 400 Stormwater facilities were present on base ranging from underground storage facilities, green roof practices, to small bioretention cells. Coordinated daily inspections schedules with Department of Public Works POC's and generated final deliverables in the form of an extensive status report and complete annual inspections database.

Dominion Energy Statewide Substation Stormwater Facility DEQ Compliance Inspections with Mobile GIS Application Development – Virginia.

Oversaw and conducted inspections of hundreds of stormwater management facilities controlling runoff from Dominion Energy owned substations throughout the State of Virginia. Developed a web mapping application for the project allowing inspectors complete inspections, attach facility compliance photos, and generate final reports entirely from their field tablets.

Arlington County Stormwater Facility DEQ Compliance Inspections and Maintenance with Mobile GIS Application Development – Arlington County, VA.

Performed DEQ compliance inspections on a wide range of stormwater management facilities throughout the County. Oversaw and scheduled inspectors and maintenance crews to address facility deficiencies and routine maintenance requirements to meet the counties stringent facility appearance and functionality expectations. A Mobile GIS application was also developed for this contract to allow maintenance crews to capture scope of work performed and attached required photo documentation. Office personnel could then generate final reports moments after the work was completed and submit to the client.