

Graham A. Washburn

BGTEnvironmental LLC

> Project Geologist/GIS
Specialist

14 Cedar Meadow Rd
Moodus, CT 06469

860-800-4293
gwashburn@bgtenvironmental.c
om
Bgtenvironmental.com

KEY QUALIFICATIONS

- Proficient in Esri's ARC GIS
- Project experience in Phase I, II, III and Underground Storage Tank (UST) removal
- Proficient at subsurface investigation, including soil and groundwater sampling

EXPERIENCE

BGTEnvironmental, LLC (2016-present)

Automotive Dealership: Wallingford, Connecticut (2018 – Present)

- Historically, the site operated as an auto body repair facility. The site entered the Property Transfer Program in 2018 with the filing of a Form III and Environmental Condition Assessment Form. Responsible for the following scope of work:
 - *Conduct Phase II and III Subsurface Investigations, including soil boring and groundwater monitoring well installation, and groundwater sampling*
 - *Subcontractor oversight*
 - *Review and evaluation of all site data*
 - *Prepare Site reports and figures*
 - *Oversee soil excavation*

Truck Service Station: Wallingford, Connecticut (2018 – Present)

- Auto body repair was historically conducted at the site.. The site entered the Property Transfer Program in 2018 with the filing of a Form III and Environmental Condition Assessment Form. Responsible for the following scope of work:
 - *Conduct Phase II and III Subsurface Investigations, including soil boring and groundwater monitoring well installation, and groundwater sampling*
 - *Subcontractor oversight*
 - *Review and evaluation of all site data*
 - *Prepare Site reports and figures*

Two Food Bag Facilities: East Hampton, Connecticut (2017 – Present)

- *Historically Leaking Underground Storage Tanks (LUST) have resulted in petroleum impacts to the groundwater aquifer that supplies potable water to the surround parcels. Due to the groundwater impact, CT DEEP issued two Consent Orders (pollution abatement and drinking water). The tanks and impacted soil were removed. Long-term potable well monitoring has demonstrated a decrease in impact over time. The client is now seeking closure of the Consent Orders. Responsibilities include:*
 - *Quarterly and Annual CT Department of Public Health (CT DPH) compliant Potable water sampling*
 - *Areawide potable well sampling*
 - *Data interpretation and report preparation*
 - *Summary of historical investigations, remediation and monitoring to document compliance with the outstanding Consent Orders*

Food Bag Facilities: New Britain, Connecticut (2018 – Present)

- *Leaking Underground Storage Tanks (LUST) have resulted in petroleum impacts to the subsurface. Soil and groundwater investigations are necessary to close out the LUST. Responsibilities include:*
 - *Conduct quarterly post-remediation groundwater monitoring*
 - *Review and evaluation of all site data*
 - *Prepare Quarterly reports and figures*

Food Bag Facilities: Danbury, Connecticut (2018 – Present)

- *Leaking Underground Storage Tanks (LUST) have resulted in petroleum impacts to the subsurface. Soil and groundwater investigations are necessary to close out the LUST. Responsibilities include:*
 - *Conduct Phase II and III Subsurface Investigations, including soil boring and groundwater monitoring well installation, and groundwater sampling*
 - *Subcontractor oversight*
 - *Review and evaluation of all site data*
 - *Prepare Site reports and figures*

Esri's ARC GIS

- Basic Map construction
 - Shapefile/feature creation and editing
 - Geodatabase creation and organization
 - Image georeferencing
 - Address geocoding
- Geoprocessing techniques
 - Buffer
 - Clip
 - Merge
 - Dissolve
 - Intersection
- Spatial Analysis
 - Conditional
 - Distance
 - Extraction
 - Generalization
 - Interpolation (global and local techniques)
 - Map Algebra
 - Classification
- Remote Sensing/Image Processing
 - Band Ratio (rock identification)
 - NDVI vegetation index
 - Thermal image processing and analysis
- Choropleth and Isopleth mapping
- Statistical mapping
- Digital elevation mapping and contour extraction
- ARC Collector Mobile Application
 - Set-up and data collection

SUNY Cortland Field Methods Course (May 2018)

- Stratigraphic mapping, correlation, and rock classification in the Capital Region of New York State.
- GPS data collection, surveying, and surficial field mapping techniques in the Vlomannkill River channel.
- Soil classification for surficial mapping.
- Bedrock and structural mapping.

EDUCATION

- Bachelor of Science, Geology with Minor in Geographic Information Systems (GIS) from *State University of New York at Fredonia*

CONTINUING EDUCATION

PROFESSIONAL REGISTRATIONS/ CERTIFICATIONS

- OSHA 40-hour certificate

Directed Study: GIS Tutorial Lab Writing (Fall 2017)

- Writing step-by-step tutorials of the basic mapping applications of a GIS using open source programs to increase awareness and accessibility of GIS.

GIS Teaching Assistant (2016, 2017)

- Assisting students in both introductory and upper level course understand and prepare maps using various geoprocessing techniques, as well as troubleshooting problems that arise.

Student Researcher for Research Foundation for SUNY (June 2016 – October 2016)

- Working under the supervision of Dr. Sheri Mason to analyze sediment samples from around the Great Lakes Region for micro-plastic contamination according to NOAA defined procedures.

Intern at HRP Associates, Inc's Stratford Office (Seasonal, June 2015 – January 2016)

- Assisting with Phase I reporting, interpreting Environmental Database Reports (EDRs), file searches at the CT DEEP, editing Health and Safety Plans (HASP), and putting together maps showing areas of interest.

Geology and GIS coursework (2014-2018)

- Introductory Geology
- Historical Geology
- Structural Geology
- Stratigraphy
- Mineralogy
- Petrology
- Geomorphology
- Advanced GIS
- Remote Sensing/Image Processing
- Cartography
- Chemistry
- Physics
- Calculus

REFERENCES

References are available upon request.