Brianne APolinar

Education

BS – Geology and Environmental Studies, Florida State University. 2013

Professional Experience

As a Staff Professional, Brianne Apolinar is responsible for providing environmental support for SCS projects in the Mid-Atlantic and New England regions. She has over five years of experience using ESRI GIS and open-source QGIS software. Since joining SCS in June 2018, she has completed Phase 1 ESAs, environmental assessments, tank decommission, remediation assistance, stormwater inspection and other environmental projects for municipal and private clients.

Notable projects that Ms. Apolinar has been involved in are described below.

Environmental and Remediation Services

**Phase 1 ESAs, Mid-Atlantic Region.** Perform Phase I ESAs per ASTM and client standards. Tasks include technical report writing, site reconnaissance to identify areas of potential contamination, review and interpretation of historical data, conduct employee and third-party interviews, regulatory record search to identify past or present management practices and creation of report figures using QGIS. Types of sites worked on include:

* Commercial (office buildings), Washington, DC
* Light Industrial (asphalt/aggregate facility), Prince George’s County, MD
* Light Industrial (creamery, trucking facilities), VT.
* Residential, Fairfax County, VA (property donated to a University)
* Light Industrial (waste management facilities), throughout US.
* Light Industrial (aviation support facilities), throughout US.
* Commercial (nursing homes), MD.
* Commercial (retail distribution, former steel mill), Pittsburgh, PA.

**DCHA Environmental assessments, DC.** EA for the demolition and potential new residential redevelopment of affordable housing units in northeast DC. Tasks include technical report writing, compliance factor review, reporting existing conditions and trends, and evaluating the effects on the character, features and resources of the project area.

**GSA Generator Decommission, VA.** Assist in planning and overseeing the decommissioning and removal of two emergency power generators. Tasks included obtaining necessary permits and inspections by county personnel, overseeing generator lift and loading by crane onto flatbed trailers, and providing the client with a closure report upon completion of the project.

**Joint Base Andrews, MD.** Performed and provided client with weekly erosion and sediment control inspection reports. Other tasks included collection and analysis of soil samples for potential contaminants. Detailed sample mapping and report provided to the client.

**Lorton, VA.** Field assistance in promoting enhanced biodegradation of PCE compound using an emulsified vegetable (soybean) oil solution at an active dry cleaner in a commercial shopping center.

**GSA Soil samples, VA.** Assist in collection of composite soil samples for former rocket and development facility and preparation of samples for shipment to laboratory for analysis. Analysis and mapping of soil contaminant levels using GIS software. .

Solid Waste Services

**Fredrick County Landfill, Winchester, VA.** Oversaw drilling and assemblies for perimeter gas-probe monitoring well installation associated with expansion of landfill. Completed soil boring and well construction logs. Decided in the field on depth to set well screen based on soil type and porosity.

GIS Experience

**Stormwater Inspections, VA, MD.** Utilization of ESRI Survey123 to create digital inspection forms for on-site stormwater data collection allowing for simplified workflow and decrease in time needed to digitize field notes.

**GLRA Visual Impact Analysis, PA.** Performed visual impact analysis for a proposed vertical landfill expansion. Analysis included a 3-mile radius map depicting areas of increased visibility of the landfill expansion with associated estimates regarding potentially impacted residential areas. Photo renderings of the proposed increase from various locations surrounding the landfill were also provided to the client.

**Miscellaneous Environmental Reports, Mid-Atlantic Region**. Produced a variety of technical figures for miscellaneous reports at the request of colleagues. Designed a standard template to allow a simplified production process and standardization among maps. Provided site layout maps compliant with Department of Mines, Minerals and Energy requirements for local rock quarry.

**Landfill Surface Emissions Mapping, Mid-Atlantic Region**. Provided monthly mapping of methane and hydrogen sulfide concentrations collected from monitoring equipment with an emphasis on depicting changes in detection levels over time. Tasks included generation of map product, styles and templates for future use by other colleagues.

**Non-technical Graphics, AZ, MD, PA, VA.** Created non-technical map graphics for marketing and proposal efforts. Products include depictions of active project work, graphics included in professional presentations,

Water/Wastewater/Stormwater

**Anne Arundel County Well Installations, MD.** Field oversight for the installation of replacement potable supply wells at homeowner residences, under direction of the County Bureau of Waste Management Services. Oversaw drilling and installation of residential drinking water supply wells. Analyzed geophysical logs and drilling cuttings to determine the optimal depth to set the well for water production.

**Joint Base Andrews, MD.** Performed weekly and ad hoc stormwater BMP inspections, and environmental sampling activities, for the construction repairs and upgrades to Taxiway Whiskey, Joint Base Andrews, MD.

**Stormwater, VA and MD**. Performed NPDES stormwater inspection and reporting for industrial waste management facilities in VA and MD.

Solid Waste Services

**Fredrick County Landfill, Winchester, VA.** Oversaw drilling and assemblies for perimeter gas-probe monitoring well installation associated with expansion of landfill. Completed soil boring and well construction logs. Decided in the field on depth to set well screen based on soil type and porosity.

Prior Experience

Geologist, Florida Geological Survey. Completed surficial geologic mapping for portions of the state of Florida. Collection, characterization and description of field collected samples. Completed detailed lithologic descriptions of core, cutting and split-spoon samples with emphasis on surficial sediment. Daily utilization of ESRI GIS software for project management, visual stratigraphic analysis, and internally used maps.