Spencer adams, eit

Education

BS – Mechanical Engineering, University of Maryland, College Park, 2021

Professional Experience

As an Associate Professional, Mr. Spencer Adams provides engineering support for landfill engineering, landfill gas (LFG) engineering, and stormwater management. Since joining SCS in March of 2022, he has worked on landfill cell design, landfill gas system design, cost estimation, airspace analysis calculations, and stormwater analysis calculations for municipal and private clients. Additionally, Mr. Adams has completed construction quality assurance (CQA) in the field for landfill cell construction, landfill closure, extraction well drilling, and LFG pipe placement projects. Notable projects that Spencer has been involved in are described below.

Landfill Engineering

**Virginia Beach, VA, Virginia Beach Landfill.** Served as CQA representative for placement of geosynthetics for final and temporary cover installation. Discussed field changes with geosynthetic installer. Inspected welds, panels, and earthwork. Documented repairs and required testing. Additionally, inspected earthwork and culvert installation for conformity to design drawings.

**Chester, VA, Shoosmith Sanitary Landfill.** Served as CQA representative for final cover repairs in March 2022 and geocomposite installation in November 2022. Observed and documented all necessary repairs and required testing. Coordinated between liner and earthwork crews. Inspected geocomposite placement for conformity to permit specifications. Performed airspace analysis and remaining life calculations for existing cells, and prepared a corresponding report.

**Madison Heights, VA, Amherst County Landfill.**Served as CQA representative for bottom liner repairs in October 2022. Reviewed field changes and discussed options with contractor and landfill management. Performed airspace analysis and life expectancy calculations for existing and proposed cells, and prepared a corresponding report complete with isopach maps.

**Staunton, VA, Augusta Regional Landfill.** Assisted in the creation of design drawings for cell closure, new cell construction, stormwater management, and sediment basin design. Analyzed plans to generate a cost estimate for these designs and aided in the bidding process. Provided estimates for stockpile usage and remaining volume with isopach maps for visual representation.

**Stafford, VA, R-Board Sanitary Landfill.**Responsible for creating a fill plan to optimize the utilization of available airspace and generating 3D visualizations for each stage of filling. Performed airspace analysis, remaining life calculations, and prepared a corresponding report.

Landfill Gas Management

**Chester, VA, Shoosmith Sanitary Landfill.**Served as CQA representative for landfill gas well drilling operations and header installation. Addressed and documented site conditions requiring field modifications and assured conformity to design constraints. Assisted with monthly wellfield monitoring.

**Virginia Beach, VA, Hampton Roads Recovery Center.** Served as CQA representative for replacement and upgrade of existing header pipes to larger sizing. Documented and advised on field modifications necessary for tie-in to existing LFG infrastructure while maintaining design constraints. Responsible for preparing as-built drawings and a CQA report.

**Staunton, VA, Augusta Regional Landfill.** Prepared design drawings for installation of a bower flare station. Assisted in the creation of design drawings for landfill gas and leachate collection systems. Attended pre-bid meeting and provided bid assistance.